

Mike McCann

Week 30

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
- Out of Office
 - Half time schedule: Generally away Mondays, Fridays, and alternate Thursdays
 - 18-24 July: SIGGRAPH in LA
 - 21-24 September: Oceans Conference

Week 29

- 200109 - Core Mooring Data - MDUC
 - Trying to fix the Anubis challenge for external access to the M1 [contour.tstring](#) images
- 901101 - Seafloor Mapping
 - Meeting with capstone students working on actual mesh generation for the 3D Tiles work
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
 - Figuring out my work schedule now that I'm half time – away at SIGGRAPH next week
- Out of Office
 - Half time schedule: Generally away Mondays, Fridays, and alternate Thursdays
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Week 28

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
- Out of Office

- 19 June - 10 July: Vacation
- 18-24 July: SIGGRAPH in LA
- 21-24 September: Oceans Conference

Week 27

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
- Out of Office
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
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Week 26

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
- Out of Office
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
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Week 25

- 200109 - Core Mooring Data - MDUC
 - Finished work on replacing Perl/Ferret Mooring data processing with Python
 - The broken contour.tstring plots have now [been replaced by the new software](#)
 - Finding bugs while using new software to process past deployments managed in SSDS
 - Starting work on [replacing Perl/Ferret delayed-mode data processing](#)
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
 - Updated several https servers to use the new IS labels method for deploying certificates

- Finished my reviews of 3 posters and 2 papers for the Oceans 2026 conference
- Out of Office
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
 - 21-24 September: Oceans Conference

Week 24

- 200109 - Core Mooring Data - MDUC
 - Continuing to work on [replacing perl data processing scripts](#) – working on the plots now
- 901101 - Seafloor Mapping
 - Gave some input for next year's proposal
 - Initial pull request for the mbmesh addition to MB-System has been merged into master
 - Independent Contractor Agreement is in place for getting mbmesh to work with X3DOM
- 901221 - Midwater Time Series
 - Reprocessed May's i2MAP mission with corrected seabird25p.cfg file
- 901910 - Plankton Taxonomic Groups from AUVs
 - Fixups for pyxis realtime energy consumption plots
- Overhead
 - Wrote a reference letter for one of last semester's capstone students
- Out of Office
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
 - 21-24 September: Oceans Conference

Week 23

- 200109 - Core Mooring Data - MDUC
 - Making progress on [replacing perl scripts](#) with python django management commands
- 901101 - Seafloor Mapping
 - Fixed bug in SMDB's load script that caused some mission tracks to not be computed
 - Writing Independent Contractor Agreement for x3dom 3D Tiles work by Earthstruct, LLC
- 901221 - Midwater Time Series
 - Working with ASO to get required SerialNumber info into seabird25p.cfg for O2 cals
 - Reprocessed i2MAP mission 2026.138.02 to confirm proper O2 calibrations applied
- 901910 - Plankton Taxonomic Groups from AUVs

- Overhead
 - Writing letter of recommendation for student on the last capstone team
 - Some 2027 proposal input
- Out of Office
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
 - 21-24 September: Oceans Conference

Week 22

- 200109 - Core Mooring Data - MDUC
 - Working on [Phase 2 of replacing Perl scripts](#) in mooring-ssds
 - Looking at writing PROV-O compatible provenance metadata for the new .nc files
- 901101 - Seafloor Mapping
 - Meeting with new capstone team on next steps for mbmesh
- 901221 - Midwater Time Series
 - Recent i2MAP deployment had config for only one CTD, working with Rob to fix that
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
 - Set up routine processing of lrauv sbd data quick look plots, and a special one for pyxis
- Out of Office
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
 - 21-24 September: Oceans Conference

Week 21

- 200109 - Core Mooring Data - MDUC
 - Had a snafu with the postgres database being removed with a docker engine change
 - Trying to get back on this project, but still dealing with LRAUV plotting fixes
- 901101 - Seafloor Mapping
 - Debugged a mission track not being computed from a set of .inf files
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Wrote plotting code for realtime sbd data similar to the LRAUV deployment plots
 - Made special cbit_amphousused realtime plot for the pyxis trip to Bermuda
- Overhead

- Attended & Gave keynote speech at CSUMB SCD Capstone festival last Friday
- Out of Office
 - 15 May: Giving keynote speech at CSUMB SCD Capstone festival
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
 - 21-24 September: Oceans Conference

Week 20

- 200109 - Core Mooring Data - MDUC
 - Trying to resolve permission problems for thalassa shares from mooring-ssds
 - Worked on dynamic current mooring deployment data plots comparing legacy with new
- 901101 - Seafloor Mapping
 - Tested and approved for merging the [Pull Request](#) from the capstone team for mbmesh
 - Had first meeting with the summer semester capstone team
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Fielding responses from allhands announcement of new LRAUV deployment plot pages
- Overhead
- Out of Office
 - 15 May: Giving keynote speech at CSUMB SCD Capstone festival
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
 - 21-24 September: Oceans Conference

Week 19

- 200109 - Core Mooring Data - MDUC
 - QC'ed data for M1 - July 2024 added to the combined hourly and dailyAveraged NetCDF
 - Making more progress on [replacing Perl mooring data processing pipeline](#)
 - Documented how to [record data set in SSDS](#) - a good first step for good metadata
- 901101 - Seafloor Mapping
 - Debugging why recent R/V Sonne missions aren't loading into SMDB
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Wrote some STOQS user documentation, starting with a [FAQ](#) page
 - Improved LRAUV plot labels & composing an allhands about *lrauv-data* Slack channel

- Overhead
- Out of Office
 - 15 May: Giving keynote speech at CSUMB SCD Capstone festival
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
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Week 18

- 200109 - Core Mooring Data - MDUC
 - Continuing to work on [Perl script replacements in mooring-ssds](#)
 - Debugged problem with the M1's download info virtual instrument data stream containing garbled data following thalassa move, we think
- 901101 - Seafloor Mapping
 - Wrapping up capstone project with meeting on Saturday and MBARI tour on 8 May
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - More quick look plot and web page improvements designed for Slack channel sharing
 - Processed Dorado/Gulper mission 2026.113.00 - no more Matlab, it's all auv-python now
- Overhead
- Out of Office
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA
 - 21-24 September: Oceans Conference

Week 17

- 200109 - Core Mooring Data - MDUC
 - Continuing to work on [Perl script replacements in mooring-ssds](#)
 - Turned off nightly drop/reload of SSDS_Metadata database on foggy for more testing
- 901101 - Seafloor Mapping
 - Reloaded SMDB's production database mid-week to test Karen's new filtering additions
 - Setup hourly emails for M1 sound speed profile for current Packard mapping cruise
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - auv-python's LRAUV deployment plots now being sent to the *lrauv-data* Slack channel
- Overhead

- Served as a judge for CSUMB's "Kelp Your Neighbor" Hackathon – lots of creativity!
 - Tech talk about Planktivore data processing
- Out of Office
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA

Week 16

- 200109 - Core Mooring Data - MDUC
 - Working on [replacing perl mooring data processing scripts](#) running on elvis
- 901101 - Seafloor Mapping
 - Advising capstone students on reaching a good milestone to wrap up their project
 - Writing a new mbmesh Issue for the summer term capstone team
 - Writing abstract with Prof. Su from CSUMB for an Oceans poster submission
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Wrapping up provenance tracking recording in mooring-ssds
 - Creating LRAUV [full deployment Quick Look Plots and email notification](#)
- Overhead
- Out of Office
 - 19 April: Serving as a judge for a CSUMB hackathon
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA

Week 15

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
- Out of Office
 - 19 April: Serving as a judge for a CSUMB hackathon
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA

Week 14

- 200109 - Core Mooring Data - MDUC
 - Working with IS to tune dods.mbari.org/data for better load balancing

- Making decent progress on using the REST API from mooring-ssds.shore.mbari.org
 - Working on the `ds_to_netcdf.py` management command to replace a key Perl script
- 901101 - Seafloor Mapping
 - Met with capstone students – planning for an MBARI tour next month
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Instrumenting `auv-python` with `--update_ssds_provenance` to use `mooring-ssds`
- Overhead
 - Dealing with impact of shares moving from atlas to thalassa
- Out of Office
 - 19 April: Serving as a judge for a CSUMB hackathon
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA

Week 13

- 200109 - Core Mooring Data - MDUC
 - Stood up a duplicate docker stack on `dods-internal2` to provide load balancing for `nginx`
 - Working on [translating DStoNetCDF.pl to Python](#) in `mooring-ssds`
- 901101 - Seafloor Mapping
 - smdb.shore.mbari.org OS Upgrade to Ubuntu 24 scheduled for Thursday morning
 - Advising capstone students – they're doing good work figuring out `mbmesh` and 3D Tiles
- 901221 - Midwater Time Series
 - Talked to Rob about ROVCTD oxygen calibration in comparison to `i2map` O2 data
- 901910 - Plankton Taxonomic Groups from AUVs
 - Helped Marguerite by [generating ODV-formatted Sipper data](#) for LRAUV daphne
- Overhead
 - Moved the [expd_mapping repo to GitHub](#) from BitBucket & set up auto-renewing certs
 - Worked with Peter on upgrading the OSs for [emdb](#) and [stogs](#) to Ubuntu 24
- Out of Office
 - 19 April: Serving as a judge for a CSUMB hackathon
 - 19 June - 10 July: Vacation
 - 18-24 July: SIGGRAPH in LA

Week 12

- 200109 - Core Mooring Data - MDUC
 - Deployed read-only “Explorer” functionality to <https://mooring-ssds.shore.mbari.org/>
 - Working on [translating old Perl mooring processing code](#) to Python
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Added biolume plot generation to the standard LRAUV data processing in auv-python
 - Fixing issues Monique is finding in auv-python’s proxy calculations
- Overhead
- Out of Office
 - 19 June - 17 July: Vacation

Week 11

- 200109 - Core Mooring Data - MDUC
 - Put some finishing touches on the Admin in mooring-ssds for editing ssds_metadata
 - Implemented the REST API for the SSDS_Metadata tables in mooring-ssds
 - Configuring mooring-ssds.shore.mbari.org with MBARI SSO
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
 - Gave presentation at Metadata Standards Forum about X3D Geospatial and 3D Tiles
- Out of Office
 - 19 June - 17 July: Vacation

Week 10

- 200109 - Core Mooring Data - MDUC
 - Created mooring-ssds repo and am working on its [first Issue](#)
- 901101 - Seafloor Mapping
 - Advising capstone students on the mbmesh development
 - Chaired first meeting of Web 3D Consortium’s Geospatial Working Group in many years
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
 - “Attending” OGC 134th Member Meeting

- Asking IS to help configure High Availability for the dods-internal services
- Out of Office
 - 2-5 March: OGC 134th Member Meeting - remote attendance
 - 19 June - 17 July: Vacation

Week 9

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
 - Met with Capstone students who are making good progress on [#1559](#)
 - Reviewed SMDB PR
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Reprocessed and reloaded all 2025 LRAUV data with corrections for wetlabsubat data
- Overhead
- Out of Office
 - 23-24 February: Out sick
 - 2-5 March: OGC 134th Member Meeting - remote attendance
 - 19 June - 17 July: Vacation

Week 8

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
 - Approved Pull Request for SMDB UI improvements
 - Reviewed 8 project proposals from each of the capstone students
 - Added --georigin and --html options to MB-System's mbgrd2gltf and testing in X3DOM
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Talking with Fred about the Planktivore data processing pipeline
- Overhead
- Out of Office
 - 2-5 March: OGC 134th Member Meeting - remote attendance
 - 19 June - 17 July: Vacation

Week 7

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
- Out of Office

- 2-5 March: OGC 134th Member Meeting - remote attendance

Week 6

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
 - Learning MB-System tools (mbgrdviz, etc.) so that I can advise students working on [mbmesh](#)
 - Reviewing Pull Request for SMDB UI improvements
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
- Overhead
 - Migrated [stoqs.mbari.org](#) to new VM running in the DMZ
 - Redeployed the dods and search services to new VMs in the DMZ, closing [Issue 22](#)
- Out of Office
 - 2-5 March: OGC 134th Member Meeting - remote attendance

Week 5

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
 - Reviewing Pull Request for SMDB UI improvements
 - Meeting with capstone teams on Friday – CSUMB is going all in on teaching AI tools
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Updated Docker configuration of STOQS servers for automated SSL certificate renewal
- Overhead
 - Performance review preparation
 - Finally starting on fixing the [elvis2 reverse proxy Issue](#)
- Out of Office
 - 2-5 March: OGC 134th Member Meeting - remote attendance

Week 4

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
 - Opened [new “mbmesh” Issue](#) for MB-System for 2 capstone teams to work on this semester
 - Added [computation of area mapped](#) for each mission in SMDB
 - Reloaded SMDB to test new area results added to the web site and *_survey_tally.csv files
- 901221 - Midwater Time Series

- 901910 - Plankton Taxonomic Groups from AUVs
 - Reloaded all 2025 LRAUV STOQS databases on tethysviz with auv-python processed data
- Overhead
 - Attending ESIP Winter Meeting
- Out of Office
 - 20-23 January: ESIP Winter Meeting - remote attendance

Week 3

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
 - Considering 3DTiles 1.1 work in MB-System now that Cesium grant is in place for X3DOM
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Created a [set of Jupyter Notebooks](#) useful for evaluating problems with LRAUV data processing
 - Solved Issue of [Inconsistent incorrect LRAUV processing to final 1S.nc file](#)
 - Running auv-python processing for all LRAUV deployments in 2025 and finding more issues
- Overhead
- Out of Office
 - 5-19 January: Remote work
 - 20-23 January: ESIP Winter Meeting - remote attendance

Week 2

- 200109 - Core Mooring Data - MDUC
- 901101 - Seafloor Mapping
 - Wrapped up the [refine mbgrd2gltf C++ code Issue](#) that the CSUMB capstone team worked on
 - More cleanup of the mbgrd2gltf code following years of capstone team contributions
- 901221 - Midwater Time Series
- 901910 - Plankton Taxonomic Groups from AUVs
 - Reprocessed/reloaded [stoqs_all_dorado](#) data using a better fluo_bl_threshold value
- Overhead
- Out of Office
 - 5-19 January: Remote work
 - 20-23 January: ESIP Winter Meeting - remote attendance