

Diana LaScala-Gruenewald Sorted By Project

200103 - Core CTD Data - MDUC

- Getting familiar with EXPDB (Week 13)
- Learning protocols for setting O2 flags from Rich (Week 13)
- Updated O2 flags (Week 14)
- Weekly meeting (Week 14)
- Review of stored procedures/functions/triggers for O2 data processing (Week 14)
- Reviewed docs and ran through ROV CTD data reprocessing/updating calibration coeffs with Rich and Mike (Week 16)
- Chased down some missing info on O2 flags for 2020 ROV dives (Week 16)
- Had a chance to see how these data are collected as part of RC cruise 4/14-4/15 (Week 16)
- Continuing to set ctd O2 QC flags as they arrive (Week 17)
- Looking into an issue with the latest reprocessing procedure - first dive was not processed with the correct config file - with help from Rich (Week 17)
- Finished troubleshooting issue with ROV CTD O2 data reprocessing (Week 18)
- Set a whole bunch of QC flags that had been accumulating (Week 18)
- Got an intro from Rich to the ROV CTD data servlets (Week 19)
- Spent some time getting familiar w/ ROV CTD data and diveinfo servlets (Week 20)
 - Practiced using them (Week 20)
 - Got access to coredata and made sure I could find all the code (Week 20)
 - Might still be good to look more closely at cron jobs and JavaScript code (Week 20)
- Set O2 QC flags for recent Doc Ricketts dives (Week 20)
- Looked into setting lightFlag for these dives as well (Week 20)
 - Exploring writing a stored procedure to do this (Week 20)
 - Spent a little time learning more about database components that I know less about (incl. stored procedures) (Week 20)
- Continued to set ROV CTD QC flags as needed (O2, light) (Week 22)
- Reviewed documentation in preparation for taking over additional new tasks from Rich (Ship and ROV core data workflow, esp Rovctd ingest to EXPD and dive/divesummary table updates) (Week 22)
- Continued setting QC flags as needed (Week 24)
- Reviewed notes from most recent meeting with Rich, got follow-up questions answered, made sure I could access/understand the code (Week 25)
- Wrote new stored procedure for expd db to set qc flags by depth (Week 26)
- Continued to set qc flags as needed (Week 26)
- Reviewed questions with/got some last words of wisdom from Rich (Week 26)
- Exploring adding a feature to rovctd development servlet to get a better understanding for how they work/how to troubleshoot (Week 26)
- Continued setting qc flags (Week 28)
- Rovctd API went down over the July 4th holiday; spent some time trying to understand what happened and how to troubleshoot in the future (Week 28)
- Spent some time diving into logging in cron, forever, and node.js (Week 29)
- Made some changes to forever logs which will hopefully help with troubleshooting when the rovctd API goes down again (Week 29)
- Spent some time getting version control sorted on coredata (Week 30)
- Updated rovctd API documentation on BitBucket (Week 30)
- Continued addressing qc flag requests (Week 30)
- QC flag requests (Week 33)

- Updated and finalized sp for setting qc flags by a depth threshold (Week 33)
- Forever failed to launch rov ctd apis after reboot again - need to look into this (Week 36)
- Looked into @reboot issue for the rov ctd apis - likely this is happening because it's trying to run the cronjob before the /home folder is mounted (Week 37)
 - Looked into some solutions, but not sure how to proceed at the moment (Week 37)
- Talked to Ed. He's a bit behind putting QC requests through. So there'll be a whole bunch at some point in the future... (Week 43)
- Kevin Barnard training on ROV CTD QC O2 flags (Week 50)

200105 - Core Nav - MDUC

500055 - Video Annotation DM

- Meeting with Brian re: concept spatial distribution visualizations for DSG (Week 13)
- Review of code from Brian (Week 14)
- Code to flatten output for DSG concept distribution maps (Week 14)
- Working on static concept distribution maps for deep sea guide (Week 16)
- Got annotation data into a reasonable format and drafted some initial maps, after sorting out a bunch of issues related to Python package management in Windows (Week 16)
- Met w/ Brian to get feedback and discuss next steps (Week 17)
- Updated code for images based on initial feedback (Week 17)
- Implemented initial code to generate static images for all VARS concepts (Week 17)
 - Currently troubleshooting this process (Week 17)
- Continued troubleshooting code generating concept distribution maps for all concepts (Week 18)
- Generated first full set of concept distribution maps for DSG (Week 19)
- This process was slow (~24 h) (Week 19)
- There are a small number of concepts that are still throwing errors that I need to look into (Week 19)
- There are a number of lingering aesthetic points that may need to be addressed (Week 19)
- Met with Brian to get feedback on initial set of concept distribution maps and identify next steps (Week 20)
- Continued working on creating concept distribution maps for a set of regions (Week 22)
 - Created a "global" extent focused on the eastern pacific (Week 22)
 - Adjusted code to create bounding boxes and grid accordingly (Week 22)
 - Moved code into Pycharm to take advantage of better debugging capabilities (Week 22)
 - Added code to query for region coords and iterate to create concept maps for each region (Week 22)
 - Currently troubleshooting a number of mapping issues arising from testing this code on a larger subset of concepts (Week 22)
- Will likely need more detailed shapefiles for maps, possibly w/ bathymetry (Week 22)
- Met with Brian to review progress on DSG concept maps - putting this on hold for now (Week 24)
- Learned how to help rename LTO tapes, and started working on that (Week 24)
- Helping rename LTO tapes (Week 25)
- LTO tapes (Week 28)
- Continuing to help with IM tape transfer (Week 32)
- IMES tape transfer (Week 33)
- IMES tape transfer (Week 36)
- IMES tape transfer (Week 37)
- LTO tapes (Week 40)

901915 - Improving MBARI Data Impact

- Intro to this project (Week 30)
- Started thinking about integration with ERDDAP (Week 30)
- Background work to learn about some of the technologies involved (Week 32)

- Groundwork researching relevant technologies (Week 33)
- Learning how ERDDAP is set up, how to add content (Week 34)
- Now have an ERDDAP running in a docker container on my local machine (Week 34)
- Working on adding tables, then connecting to database (Week 34)
- Working on adding data tables to ERDDAP. Got a test data table up, but uncertainty about “correct” way to set up datasets.xml for different data types (Week 36)
- Continuing to get familiar with adding data sets on ERDDAP, documenting what currently needs to be done manually during this process (Week 37)
- Got reasonably comfortable adding data tables to test ERDDAP server (Week 38)
- Got a test postgres db running in a docker container and linked to test ERDDAP via docker compose (Week 38)
- Am currently troubleshooting the process of adding a db table to ERDDAP (Week 38)
- Worked through adding database tables, views, and tables/views with lat, lon, time, depth to ERDDAP (Week 40)
- Put together some documentation on BitBucket (Week 40)
- Completed initial documentation (Week 41)
- Reviewed ERDDAP docs/other materials to evaluate “ideal” data format, ways to serve large amounts of data, high request volumes (Week 41)
- Began trying to serve ROV CTD data using ERDDAP - currently troubleshooting connection issues (Week 41)
- Tested serving all ROV CTD data from all vehicles/years through ERDDAP. After I figured out some details with the connection, it went pretty smoothly. Kept notes on what needed to be done manually. (Week 43)
- Started getting familiar with TimescaleDB and STOQS (Week 43)
- Meeting w/ Mike to get an intro to STOQS today (Week 43)
- Have been getting familiar with STOQS, its architecture, loaders, running it locally, running through some of Mike's notebooks, extracting data (Week 46)
- Met with Mike to review questions (Week 46)
- At his suggestion, comparing the experience of pulling big chunks of rovt data off of stoqs in parquet format with pulling the same data off of erddap in csv (Week 46)
- As part of this, learning to use the holoviews Python package for interactive data visualization (Week 46)
- Also spent some time looking into CKAN - a data management software system that includes cataloging and search (Week 46)
 - Useful intro video, see 7:00-29:11 (Week 46)
- Been bad about filling this out lately, apologies (Week 50)
- Continuing to work primarily on Improving Impact (Week 50)
- Still working to get STOQS data loaded into dockerized TimescaleDB. Everything is set except there's a bug around getting my load script to run automatically at container startup. (Week 50)

Out of Office

- ½ day sick last Friday
- ½ day vacation on Wednesday 5/26
- Aug. 30 & 31 - Backpacking, won't be reachable
- July 19-23 - ESIP summer meeting (virtual)
 - Participated in a [pretty interesting workshop](#) on a new Python package for integrating a bunch of graph database related tools
- Aug 3-6 - Oceanhackweek (virtual)
 - [Hackweek project repo](#)
- Out sick last Friday (11/12)

Overhead

- Getting familiar with docs and new software (Week 13)

- Weekly meeting(s) (Week 17)
- Weekly meeting(s) (Week 18)
- Weekly meeting(s) (Week 19)
- Spending a little bit of time setting up new computer (Week 19)
- Weekly meeting(s) (Week 20)
- Spent some time setting up new laptop (Week 20)
- Weekly meeting(s) (Week 22)
- Some training on database creation, management, and optimization to improve understanding of EXPD DB (Week 22)
- Weekly meeting(s) (Week 24)
- Some orientation/getting settled at MBARI (Week 24)
- Weekly meeting(s) (Week 25)
- Completed LinkedIn Learning course on database management (Week 25)
- Weekly meeting(s) (Week 26)
- Working through tutorial on developing first Java servlet (Week 26)
- Weekly meeting(s) (Week 28)
- Proposals (Week 28)
- Training on java servlets, java script, node.js (Week 28)
- Weekly meeting(s) (Week 32)
- Training - oceanhackweek (Week 32)
- New hire meet-and-greet interviews (Week 32)
- Weekly meeting(s) (Week 33)
- New hire interviews (Week 33)
- Weekly meeting(s) (Week 34)
- Weekly meeting(s) (Week 36)
- Weekly meeting(s) (Week 37)
- Weekly meeting(s) (Week 38)
- SE candidate interviews (Week 38)
- Bystander intervention training (special timecode) (Week 38)
- Weekly meeting(s) (Week 40)
- Weekly meeting(s) (Week 41)
- Weekly meeting(s) (Week 43)
- Weekly meeting(s) (Week 46)
- Weekly meeting(s) (Week 50)