

Engineering Weekly Report 11/3/2022 - 11/10/2022

Executive Council Notes

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Individual Activities

- Michael Anderson
- Kevin Barnard
- Francois Cazenave
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Monitoring buoy
 - 902106 - Niobicon-Based AUV Docking Development
 - Detailing design of housing
 - Overhead
 - Preparing for and participating in ME interviews
 - Out of Office
 - 1 sick day due to sick child
- Danelle Cline
- Duane Edgington
 - 901603 - Video TAG
 - Working with Peter and Neil on trying to get Digits DevBox up again. It is showing the hardware boot errors of August 2022 again. We replaced a drive in the RAID and need to rebuild the RAID once the computer is booting
 - 902005 - VARS Annotation Assistance
 - Continued work with Danelle and Carlos
 - Made a model using localizations from benthic 2017 benchmark annotations
 - Testing model against D232 dive data
- Jon Erickson
- Kevin Gomes
 - 200105 - Core Navigation Data - MDUC
 - Troubleshooting some issues with Dataprobe that was seen on Ventana dive
 - Reviewing documentation from David Packard contractor for data flow.
 - 901009 - CANON
 - Resurrecting script to push locations from WG tracker to the ODSS (LR broke some stuff).
 - 901915 - Improving the Impact of MBARI's Data
 - More web page editing and got response from Visceral about some workarounds and new features added.
 - LOTS of web page editing. Made a good pass over all the pages to make sure we were getting closer.
 - 902202 - MBARI Cloud Integration Exploration
 - A little support for AWS stuff
 - More AWS support stuff
 - Monthly touch base phone call with AWS rep
 - Out of Office
 - 11/21-11/23: Vacation

- 12/19-12/23: Vacation
- Andy Hamilton
- Kent Headley
- Rich Henthorn
 - Out of Office
 - Oct 24 - 28, WFH
- Brett Hobson
- Scott Jensen
 - Out of Office
 - On leave 10/20-25
- Brent Jones
- Chad Key
- Brian Kieft
 - Out of Office
 - 10/24 - 10/28 (PDT)
 - 11/21 - 11/25 (MST)
 - 12/28-30 (PST)
- Denis Klimov
- Eric Martin
- Thom Maughan
 - Out of Office
 - Nov. 14 - 16 Colorado
 - Dec 22 - 28 Colorado
- Mike McCann
 - 901910 - Plankton Taxonomic Groups from AUVs
 - 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
 - Examining geometric depth correction due to pitch and its effect on our salinity section plots
 - Testing auv-python reprocessing of archive with
 - Out of Office
 - 11/21-11/23: Vacation
- Rob McEwen
- Paul McGill
 - 300070 - DMO Support - Ventana
 - Working on issues with ground-fault channel isolator with Jose.
 - 901618 - Pelagic-Benthic Coupling and the Carbon Cycle
 - Created new calibration files for Laser Measure but still can't pin down source of errors
 - Troubleshooting failure in Rover optodes
 - Troubleshooting failures in Camera Tripod strobes
 - Identified and corrected missing images in Camera Tripod VARS repository
 - 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Mobing for cruise to deploy Coral Macro Camera on Thu
 - Out of Office
 - Took vacation day Monday
- Tom O'Reilly
- Doug Pargett
 - Out of Office
 - August vacation
- Mike Risi

- Out of Office
 - May 5 - vacation
 - May 9-10 - vacation
 - June 2-8 - OI cruise
 - June 10-14 - vacation
 - June 20-22 - vacation
 - July 19-20 - vacation
 - August 8-9 - out of office
 - Out of office most Fridays
- Paul Roberts
 - Out of Office
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- Brent Roman
 - 708165 - NOAA-MERHAB
 - Review materials for their 2023 season
 - 901205 - SURF Center
 - Continued testing with updated ESP 3G firmware looks good
 - Preston discovered bug in Ruby event schedule caused by pressing Control-C
 - At a very inopportune time.
 - Added Exception deferral to better manage this
 - Creating stress tester for the Ruby event scheduler
- Carlos Rueda
 - 300083 - DMO Support - LRAUV
 - Exchanges with Erik about planning for 2023.
 - 901009 - CANON
 - MXM adjustments, mainly in the prototype implementation (both backend and ui).
 - 901502 - Soundscape Research and Education
 - Continued exploring xarray and pypam. Though no news yet about [this issue](#), I've tried the mentioned "test" branch but the issue still arises with it.
 - Getting in touch with Samara Haver (NOAA) re pypam assistance.
 - Quick touch bases with Josh M. (UBC) and Duane E. in our biweekly mtg today.
 - 902005 - VARS Annotation Assistance
 - Good progress setting up "ReID" to train it with our data, including initial runs with s3://902005-reid-training-test/benthic2017/crops256/. (Using [private clone](#) of the original codebase.)
 - 902009 - AUV User Experience Design
 - SumoCreations (Jim J.) looking into some comments I've provided.
 - 902101 - LRAUV Technology Development and Fleet Operations
 - Dash system is now [4.22.4](#).
 - Overhead
 - Zoom telecon with Mike Godin re various tasks (TethysDash modernization, MXM and TethysDash "generalization", TethysL, etc.) for the remainder of the year and 2023.
 - Assistance to IOOS regarding one of their ioos-metadata vocabularies.
 - Out of Office
 - Nov 11–14, 23–30, Dec 8–9, 21–29: vacation; Early January (tentative): vacation.
- Karen Salamy
 - 300057 - Mooring Maintenance
 - General maintenance and data download checks.
 - 901915 - Improving the Impact of MBARI's Data
 - Still working on new MBARI web pages for the Data section.

- I have completed the Seafloor Mapping site, finalizing parts of the krill hotspots and Nsupply pages, and will try and finish the Global modes for Monique this week.
- Overhead
 - Submitted the first license maintenance and renewal PO for 2023 (Aldec). I need to produce one more PO for the floating Mathcad license. Matlab is no longer on my to-do list.
- Brian Schlining
 - 500055 - VARS, M3/RS, DSG
 - Configuring a Mac Pro workstation for ML work and general video lab task support (e.g. generating video proxies).
 - 901221 - Midwater Time Series
 - Set up merge between i2MAP annotations and the processed netcdf nav/ctd data files to occur every morning at 6AM.
 - 902002 - FathomNet
 - Set up JIRA cloud (free tier) for the Ocean Vision AI project.
 - 902005 - VARS Annotation Assistance
 - [Integrating image ML endpoint into VARS.](#)
 - Overhead
 - With the plethora of messaging and issue tracking services in use by various projects, Brian started using [Obsidian](#) for a daily task/general notes tracker (it can link to all the issues/messages). It's pretty slick!
- Alana Sherman
 - 901618 - Pelagic-Benthic Coupling and the Carbon Cycle
 - Review Rover schematics and data to try to determine where to start looking for optode issue experienced during our last cruise. I hope to follow up with some testing next week.
 - 901809 - Deep Sea Bioinspiration
 - Reviewed interview questions for OVAI hires
 - 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Mob'd macro to go out Thursday, all seems ready
 - 902208 - MiniROV Operations
 - Scheduling the cruises for next year
 - Requested extra funds to pay for more software consulting
 - Revisiting the job ad for MiniROV position
 - Overhead
 - Working on promotion materials
 - Review applicants for AUV/SE position
 - Out of Office
 - Taking friday the 11th as a vacation day