

Engineering Weekly Report 7/14/2022 - 7/21/2022

Executive Council Notes

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Individual Activities

- Michael Anderson
- Kevin Barnard
 - 200103 - Core CTD Data - MDUC
 - Received several dives of CTD QC
 - 902002 - FathomNet
 - Worked through some issues with merged bounding boxes
 - Resolved issues with CVision AI model server
 - 902204 - Scalable Marine Robotics Foundations
 - Started integrating stereo camera calibration workflow
 - Out of Office
 - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
- Francois Cazenave
- Danelle Cline
 - Out of Office
 - Marine Imaging workshop 3 - 7 Oct 2022 CEST Brest, France (GMT+2)
 - Vacation July 7-28th, back in August. 1st.
- Duane Edgington
 - 901502 - Soundscape Research and Education
 - Working on upgrading Alexa Skill
 - 901603 - Video TAG
 - Starting to read proposals 2023
 - Installed new UPS on DevBox.
 - DevBox updated to Cuda 11.7 – working great. Tested with yolov5
 - 902005 - VARS Annotation Assistance
 - Continued work with intern Manuel Gozzi
 - Continued work on batch processing testing
 - Out of Office
 - Alexa Live 2022 (virtual) July 20. PDT
 - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022 PDT.
 - Vacation (international) Sept 12 - Oct 1 2022
 - Marine Imaging workshop Oct 3 - 7 2022 CEST Brest, France (GMT+2)
 - Vacation (international) Oct 9 - 19 2022
 - Vacation October 21-23 2022 (Southern California)
- Jon Erickson
 - 701145 - Penguin Hotspots
 - REMUS EK-80 parts and assembly is done, except for the foam flotation. Arrives today.
 - 901805 - Coastal Biogeochemical Sensing Program
 - Working on flow cells for nanoFET.
 - 901809 - Deep Sea Bioinspiration

- Started working on “multicam”. Interior chassis parts.
- 902010 - Mesopelagic LRAUV
 - Working with Aaron to get the Lab View Dac working with the strain gauges and storing data.
 - Space for the new Sierra wireless radio?
- 902101 - LRAUV Technology Development and Fleet Operations
 - New materials for the nose shells from Carbon Scope Tubes.
- Kevin Gomes
 - 300057 - Mooring Maintenance
 - Some SSDS side clean up for the new M1 mooring deployed Monday.
 - Lots of time troubleshooting GPS related problems on the new M1 deployment
 - 901915 - Improving the Impact of MBARI's Data
 - As I am going through proposals, I am building up a catalog of data and creating the web templates for the new web site.
 - Looking into workflow and data storage technologies
 - 902202 - MBARI Cloud Integration Exploration
 - Set up meeting with AWS, Todd and Joe to go over AD/SSO integration (meeting one week from today).
 - Overhead
 - Reading proposals
 - Out of Office
 - 8/1-8/5: Vacation
 - 10/3-10/6: Vacation
- Andy Hamilton
- Kent Headley
 - Out of Office
 - July 14-29 (vacation)
- Rich Henthorn
 - 800139 - EyeRIS (Remote Imaging System)
 - EyeRIS - LRAUV Interface updating
 - 901618 - Pelagic-Benthic Coupling and the Carbon Cycle
 - Weekly meeting
 - Overhead
 - Open enrollment
 - Out of Office
 - July 4 - 18, WFH and vacation, email/phone/zoom, mostly available so contact encouraged
 - Aug 30 - Sep 16, vacation in Germany, email only
 - Sep 22 - 29, Sta.M Cruise (final scheduled cruise of the Western Flyer)
- Brett Hobson
- Scott Jensen
 - 901205 - SURF Center
 - Deployed Jackson instruments
 - Working on electronics “brass board” for sampler
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Continued design of Battery Management System
 - DQ2113 - Tidal Turbine
 - Some effort on the trip report
 - Overhead
 - EE hiring committee
 - EE-tech hiring committee
 - Out of Office

- July 25- 29 Vacation
- Brent Jones
- Chad Keczy
- Brian Kieft
 - Out of Office
 - 07/15 - 07/21 (AKDT) WHOI
 - 07/31 - 08/11 (EDT) USGS
 - 08/28 - 08/31 (EDT) USGS
 - 09/12 - 09/28 (GMT+2 - vacation)
- Denis Klimov
- Diana LaScala-Gruenewald
- Eric Martin
 - Out of Office
 - July 1-31
- Thom Maughan
 - Out of Office
 - Vacation 6/23 -,6/28. Colorado
 - Was Jul 6 - 19, Now Jul 8, 11. Additional 2 weeks vacation deferred until after phase 1. Camping, Bear Lake Monster Swim
- Mike McCann
 - 901915 - Improving the Impact of MBARI's Data
 - Attending ESIP Summer Meeting in Pittsburg, PA
 - Out of Office
 - 27 June - 18 July: Vacation
 - 19-22 July: ESIP Summer Meeting, Pittsburg, PA
 - 25-29 July: Vacation
- Rob McEwen
- Paul McGill
 - 901618 - Pelagic-Benthic Coupling and the Carbon Cycle
 - Worked on rotation vectors for Laser Measure calibration.
 - Tried to fix spare Raspberry Pi for BLISS.
 - Overhead
 - Reviewed resume for Ventana pilot candidate.
 - Out of Office
 - Was on vacation last week.
- Tom O'Reilly
- Doug Pargett
 - 901205 - SURF Center
 - Knowledge transfer of ESP parts, models, and assembly methods.
 - Building bulkhead valve assembly
 - Revising drawings for outside shop
 - Overhead
 - A few hours working with HR planning my departure from MBARI.
- Ben Raanan
- 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
- Paul Roberts
- Brent Roman
 - 706005 - eDNA Grass Carp Sandusky
 - Scott Jensen and Jim Birch ESPgordon and ESPwaldo on the Snake River in Montana. First samples looking good.
 - 708179 - Saildrone AK
 - Half way to AK. We've not tried taking a sample yet.
 - 708165 - NOAA-MERHAB
 - Lots of support of Stephanie Moore's deployments of ESPfriday and ESPeddie of La Push, WA
 - 901205 - SURF Center
 - Supporting Nadia in her efforts to measure the thermal properties of the new cartridges
 - Out of Office
 - July 26 through roughly August 26
- Carlos Rueda
 - Out of Office
 - July 5–8: vacation
- Karen Salamy
 - 300057 - Mooring Maintenance
 - The majority of my time this week has been on the 202207 M1-turn. The new M1 mooring was deployed at noon on Monday, Jul 18, 2022 . Most instruments are up and functioning with the exception of the Metsys and two virtual instruments (gpsclock and Download stats). I have not been able to determine the source of their errors yet but have an email into Kent Headley requesting some possible historical knowledge.
 - 901101 - Seafloor Mapping
 - Continued building the SMDB UI for the team.
 - Out of Office
 - Vacation: August 4-5; family visiting from out of town.
- Brian Schlining
 - 500055 - VARS, M3/RS, DSG
 - Iron mountain video ingest.
 - 902002 - FathomNet
 - [Podman](#) has improved their systemd support. (It used to be essentially unusable). New docs for it are [here](#). Deployed FathomNet using systemd/podman.
 - Working on localization data cleanup and [re-import into FathomNet](#) and for VAA model training.
 - Merging the [fathomnet-m3-sync](#) project into [fathomnet-support](#) to reduce redundant code and maintenance costs.
 - Out of Office
 - Jul 19 - out of office
 - Jul 25-28 Vacation
- Alana Sherman
 - Overhead
 - Preliminary review of candidates for EE position, starting to organize preliminary interviews
 - Work on strategic roadmap sections on impacts
 - Beginning proposal review
 - Out of Office
 - On vacation 7/21-30