

Engineering Weekly Report 6/23/2022 - 6/30/2022

Executive Council Notes

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Individual Activities

- Michael Anderson
- Kevin Barnard
 - 500055 - VARS, M3/RS, DSG
 - Completed initial integration of BoxJelly with Deep Sea AI GraphQL API
 - 701139 - ML Tracking
 - Wrapped up all data and code for May 24-25 analysis
- Francois Cazenave
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Removed boxes from buoy
 - Installed PTO in building D
 - 902106 - Niobicon-Based AUV Docking Development
 - Working on proposal for 2023
 - Ordering new actuator
- Danelle Cline
 - Out of Office
 - Marine Imaging workshop 3 - 7 Oct 2022 CEST Brest, France (GMT+2)
- Duane Edgington
 - 901502 - Soundscape Research and Education
 - Spinning up on Alexa Skill devops
 - 901603 - Video TAG
 - Reading recent papers.
 - 902005 - VARS Annotation Assistance
 - Continued testing and production run of VAA batch processing.
 - Continued work with Intern Manuel Gozzi. Great progress.
 - Discussed road-map and 2023 potential applications/project work with Steve Haddock.
 - Out of Office
 - CVPR June 19 - June 24 2022 (virtual) CDT (GMT-5)
 - Registered for Monterey Data Conference, Aug 29 - Sep 1 2022
 - 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
- Kevin Gomes
 - 200105 - Core Navigation Data - MDUC
 - Proposal work
 - 300057 - Mooring Maintenance
 - More work on cleaning up the M1 Test Deployment (deploying in July)
 - 901009 - CANON

- Met with UAV group to resurrect the work on UAV images being served from GeoServer
- 901915 - Improving the Impact of MBARI's Data
 - Developing content templates for data pages
- 902012 - Telepresence on MBARI Research Vessels
 - Fixed bug with user properties not propagating properly from slack
 - Set up telepresence server so that it is controlled via systemd on telepresence.mbari.org
 - Added lots more stuff to the data panel
 - Fixed a few bugs
 - Added location and depth overlay on map
 - Changed map so it stays centered over most recent location
- Overhead
 - PCO request for hour changes
 - Proposal meetings
 - Budget adjustments
- Out of Office
 - 8/1-8/5: Vacation
 - 10/3-10/6: Vacation
- Andy Hamilton
- Kent Headley
 - 600034 - Precision Control Technologies for ROVs and AUVs
 - Working on TRN code for OI.
 - 901101 - Seafloor Mapping
 - Providing TRN support for Dave C at Axial. Apart from a weather day or so, Sentry has made a number of surveys that include TRN testing. Today, Sentry is using TRN to help remap a survey where Sentry nav had drifted substantially. The mission is on-going, and the survey lines are designed to bring Sentry in comms range to check nav drift and TRN status. The first check (after ~6h) is good; TRN has so far been able to help correct for ~150m drift in navigation.
 - Working on histogram support for MB TRN metrics plots
 - Overhead
 - Proposal planning meetings
 - Working on job description, hiring plan
 - SRSC, DEI committee meetings
 - Out of Office
 - July 14-29 (vacation)
- Rich Henthorn
 - 600034 - Precision Control Technologies for ROVs and AUVs
 - Refining CoNav source code
 - Meeting w/Rock to discuss 2023 proposal
 - 800139 - EyeRIS (Remote Imaging System)
 - Working on new features in EyeRIS LRAUV Interface app (ELI)
 - 901101 - Seafloor Mapping
 - Meeting to discuss Dorado QNX porting task for 2023
 - ROV w/TRN simulation meeting
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Attended Gazebo Community Meeting
 - 901618 - Pelagic-Benthic Coupling and the Carbon Cycle
 - Proposal input for 901618 and new SES Event Detection project
 - 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
 - Out of Office
 - June 9-10 for UofW/APL visit
 - June 20-22 Ohio recovery
 - June 27-July 8 vacation
- Brent Jones
- Chad Keczy
- Brian Kieft
 - 300082 - DMO Support - Wave Glider
 - Wrapped up piloting for PIE project. Tracking went very well with only one loss over 12 days.
 - 300083 - DMO Support - LRAUV
 - Piloting pontus for fish tracking deployment
 - 708168 - DHS/LRAUV Under-Ice
 - Prepping for Arctic trip. Fixed a couple minor issues on Stella.
 - 708143 - Eco HAB
 - Gathering feedback from team and coming up with improvements for next year. Meeting next month to recap the experiment.
 - 902009 - AUV User Experience Design
 - Usual q&a online
 - 902102 - Multi-LRAUV Simulation Environment
 - Walked through sim setup via Ben's documentation and got it running.
 - Overhead
 - Started writing UX proposal
 - Out of Office
 - 07/02 - 07/12 (HST - vacation)
 - 07/15 - 07/26 (AKDT)
 - 08/01 - 09/03 (EDT)
 - 09/12 - 09/28 (GMT+2 - vacation)
- Denis Klimov
- Diana LaScala-Gruenewald
- Eric Martin
 - 901101 - Seafloor Mapping
 - Ordering new multibeam
 - Out of Office
 - July 1-31
- Thom Maughan
 - Out of Office
 - Vacation 6/23 -,6/28. Colorado
 - Jul 6 - 19 Camping, Bear Lake Monster Swim
- Mike McCann
 - Out of Office
 - 27 June - 18 July: Vacation
 - 19-22 July: ESIP Summer Meeting, Pittsburg, PA
 - 25-29 July: Vacation
- Rob McEwen
- Paul McGill
 - Out of Office
 - Out last Thu for medical appointments.

- Tom O'Reilly
- Doug Pargett
 - 901205 - SURF Center
 - Ordering housing caps for G3 ESP
 - Starting build of sub-assemblies
 - Out of Office
 - Back from spending a week helping my parents (Sick leave)
- 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
 - Out of Office
 - July 21 through roughly August 21
- Carlos Rueda
 - Out of Office
 - July 5–8: vacation
- Karen Salamy
 - 300057 - Mooring Maintenance
 - Working with Jared to test and prepare the M1-Mooring for a turn in mid-July.
 - Assisted Francisco with updating OA1 and OA2 email lists for daily and hourly updates.
 - 901101 - Seafloor Mapping
 - The new link for the SMDB is now active on the Canyon head and the site is [here](#).
 - Spent a lot of time this week fixing HTML viewing issues of the SMDB site for Jenny and editing text with updated information. I was also able to set up the GMRT Masked and Unmasked basemaps (~30m res) for the SMDB site as well. As Mike is on vacation, some of these changes will have to await his return to be properly merged into the master code set.
 - 902009 - AUV UI
 - Attended a 2hr meeting to discuss questions that SUMO creations had regarding the new LRAUV UI.
 - Overhead
 - Took an online training course.
 - Began looking at old EXPD dives that were removed from processing over the years to understand why this had been done.
- Brian Schlining
 - 500055 - VARS, M3/RS, DSG
 - Generating web-friendly HD/H264 [proxies](#) for all 4K/h265 videos
 - Iron Mountain video ingest
 - 902005 - VARS Annotation Assistance
 - Still working on new [vcr remote control protocol](#). Testing tcp vs udp.
 - Modifying [jsharktopoda](#) to use as a test app for the new protocol.
 - Worked on loading Benchmark videos into the video asset manager which unearthed a [bug](#) in handling a new use case (videos with the same name but different durations). Working on a fix.

- Overhead
 - Addressing some VARS issues at University of Hawaii.
- Out of Office
 - Brian is (still) working at home taking care of a daughter with COVID.
 - Jul 7-8 Vacation
 - Jul 25-28 Vacation
- Alana Sherman