

Engineering Weekly Report 6/15/2023 - 6/22/2023

Executive Council Notes

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Individual Activities

- Michael Anderson
- Kevin Barnard
 - Out of Office
 - CVPR (Vancouver) June 17-25
 - Vacation June 30-July 9
- Francois Cazenave
 - Out of Office
 - 1 sick due to sick child
- Danelle Cline
 - Out of Office
 - Generative AI Immersion Days, June 13-15, San Francisco
- Duane Edgington
 - Out of Office
 - Virtual [CVPR 2023](#) June 18 - 22.
- Jon Erickson
 - 901805 - Coastal Biogeochemical Sensing Program
 - Waiting on parts from the shop. The circuit board changed, need to get Jose, and Irene to sing off on my hardware changes.
 - 902010 - Mesopelagic LRAUV
 - Parts for the pressure test at NFESC
- Kevin Gomes
 - 300057 - Mooring Maintenance
 - Starting SSDS configuration for M1 turn
 - Met with Karen to get handoff of information related to download portion of mooring turn
 - Overhead
 - Interviews for MiniROV/Engineer position
 - Interviews for OVAI Program Manager
 - Attended DEI Seminar by Lori Mackenzie
 - Working on Cybersecurity Policy documents
 - Out of Office
 - Jun 9,12: Vacation
 - Aug 28-Sep 12: Vacation
- Andy Hamilton
- Kent Headley
 - 901101 - Seafloor Mapping
 - Test cruise on Carson: quite a few software issues: first with environment and scripting on cygwin, then segfaults in mbtrnpp. High winds brought us back early.

- Currently working to trace source of segfaults, made more difficult by the facilities provided by Cygwin, and also that we likely won't be able to reproduce conditions in the test tank (since it's a sonar thing).
 - Did reproduce a segfault by replaying yesterday's mission data, but not certain yet it's the root cause
- 902302 - DEI
 - attended Lori Mackenzie Inclusive workplace seminar
- Overhead
 - hiring
 - proposals
 - misc admin
- Out of Office
 - 6/20 Rachel Carson
- Rich Henthorn
 - 300078 - DMO Divisional Support - AUV
 - Support TRN tests on Carson at Portuguese Ledge
 - 902305 - Event Detection using the Sedimentation Event Sensor
 - Installing data transfer and processing scripts on SHORE server
 - Overhead
 - Seminars, DD, etc.
 - Rec Com
 - HR
 - Out of Office
 - June 20 - Rachel Carson
 - June 29 - July 7: Vacation/WFH: available on email, Zoom, Slack, VPN, PDT timezone
 - July 24 - 27: Vacation: available on email, Slack, EDT timezone
 - July 31 - Aug 4: WFH: available on email, Zoom, Slack, VPN, PDT timezone
- Brett Hobson
- Irene Hu
 - Out of Office
 - June 19-23: Vacation
- Scott Jensen
 - 706008 - READI-net
 - Two copies of the wire-wrap prototype (wwp) have been fabricated and checked out. One copy has been delivered to the firmware developer.
 - Using old code modified for the wwp, the clamp with its Force sensor has been enabled. Clamp is capable of moving between three positions: open, hold and close.
 - Meetings about the filtering experiments
 - 771131 - Great Lakes PCM/HAB
 - There seems to be enough insulation on the flower pot ESP container to allow the cooler to keep the front section cool in a 40C environment.
 - 902106 - Niobicon-Based AUV Docking Development
 - Looking into possible solutions to the communications road block.
 - High capacitance when the dock is in water causes a lack of communications
 - Overhead
 - python
 - Out of Office
 - Vacation June 30-July 5
 - Vacation July 24-28

- Brent Jones
 - 901112 - Monterey Bay Time Series
 - Deploy spray 64
 - Recovered Wire Walker mooring and begin cleaning, refurb
 - 902101 - LRAUV Technology Development and Fleet Operations
 - Looking at increasing LCM logging for Great Lakes op
 - Overhead
 - Submitted wiring harness for M1 Cell to elec techs
 - Redesigning battery layout and adding 3 packs to M1 cell
- Chad Keczy
 - Out of Office
 - Out of office on Fridays
- Brian Kieft
 - Out of Office
 - 05/15 (PDT)
 - 06/09-14 (PDT)
 - 06/19 - 06/29 (EDT)
 - 07/03 - 07/07 (TBD)
 - 07/17 - 07/28 tentative (TBD)
 - 08/03 - 08/07 (EDT)
 - 08/16/ - 08/19 (EDT) alternate
 - 09/26 - 10/04 (EDT)
- Denis Klimov
 - Out of Office
 - 6/12/2023-6/15/2023
 - 7/3/2023-7/6/2023
 - 7/11/2023-7/14/2023
- Eric Martin
 - Out of Office
 - on vacation 6/8-6/15
- Thom Maughan
 - Out of Office
 - Vacation June 26 - July 12
- Mike McCann
 - 200105 - Core Navigation Data - MDUC
 - Updated emdb with raw nav data from v4400-v4459 to help Linda assign quality flags
 - 300083 - DMO Divisional Support - LRAUV
 - Starting to transfer databases to the new tethysviz2 STOQS server
 - 901009 - CANON
 - Merged Django 4.2.2 and postgres15 changes into master branch
 - Mentoring Capstone team who is working on the [STOQS modernization issue](#)
 - 901101 - Seafloor Mapping
 - Fixed GitHub Actions, but marginally successful in getting Selenium testing to work there
 - 901910 - Plankton Taxonomic Groups from AUVs
 - Loaded [stogs_auv_compare](#) for another comparison of auv-python proxy data
 - Overhead
 - Wrote a [Jupyter Notebook](#) that computes platform track lengths from data in STOQS
 - Shared first draft of Expedition Database Modernization proposal
 - IS is changing my UID tomorrow so that my Macs will stop acting like they're brain dead

- Out of Office
 - 26-30 June: Vacation
 - 7-11 August: SIGGRAPH in LA
 - 9-11 October: Web3D 2023 Conference
- Rob McEwen
- Paul McGill
 - 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Planning for Davenport flight this Friday.
 - 901904 - Deep-Sea Coral Community Observatory
 - Preparing Coral Macro Camera for deployment next Tuesday. Did tank testing today and re-aimed lasers.
 - 902304 - Piscivore Cam
 - Preparing camera for deployment next Monday.
 - Fixing minor interface bugs in camera control code.
 - 902305 - Event Detection using the Sedimentation Event Sensor
 - Continuing to monitor data from SES. So far, so good.
 - Out of Office
 - Took sick day on Tue to take wife to medical appointment.
- Enoch Nicholson
 - 706008 - READI-net
 - Modeling cylinder concept.
 - 902306 - SINKER
 - Housing weight trade offs Ti vs Al
 - Acrylic viewport feasibility & basic design
- Tom O'Reilly
- Mike Risi
 - Out of Office
 - Out of office on Fridays
 - May 30 - June 6
- Paul Roberts
 - 901809 - Deep Sea Bioinspiration
 - Intern support
 - 901904.99 - Corral Camera System
 - Assembly and initial testing of multispec camera for tank imaging
 - 902001 - Ventata 4k camera
 - Updates for laser control
 - Final assembly and testing for Ventana integration
 - 902004 - Planktivore
 - Deeprip setup
 - 3D printer setup
 - 902204 - Scalable Robotics
 - MiniROV sled and camera integration
 - Overhead
 - Intern support
 - Out of Office
 - June 26 - July 4
- Brent Roman
 - Out of Office
 - May 26 - June 6
- Carlos Rueda

- 901502 - Passive Acoustic Sensing
 - PyPAM based software and data processing continue (some aspects taking longer than expected).
 - Meeting with NCEI, mainly about metadata to be captured in the netcdf products.
 - Some revision of “mysticete symphony” paper draft.
- 902101 - LRAUV Technology Development and Fleet Operations
 - LRAUV/TethysL: revisiting ModuleToXsd.py toward determining possible strategies for either its replacement (with proper mechanism in TethysL itself) or retargeting it to generate JSON instead of XSD.
- 902204 - Scalable Robotics
 - Group meeting.
- Overhead
 - Per <https://bitbucket.org/blog/ssh-host-key-changes> (as announced by Bitbucket for a while) did SSH related adjustments on **tethysdash2**, **tethystest**, **docs**, my local env, and ... also **tethyshub** (as it seems nobody else is paying attention there).
 - DEI seminar.
 - ACM Webinar about LLM/Copilot and programming.
- Out of Office
 - July 5–7, 15: vacation
 - August 9–28: vacation
- Karen Salamy
 - Out of Office
 - VACATION: May 30, June 19-23, 2023
 - Now in the office 3 days/week M, T, Th..
- Brian Schlining
 - 500055 - VARS, M3/RS, DSG
 - Iron Mountain video imports
 - 901618 - Pelagic-Benthic Coupling
 - Work on association editor in Mondrian
 - 902002 - FathomNet
 - Testing version of FathomNet with new community features is at <https://fathomnet.org/testing>
 - DQ2209 - Ocean AI 2
 - Improvements to activity stream APIs for FathomNet
 - Overhead
 - Addressed issues with DARC's VARS installation
 - Soliciting assistance for organizing and running the 2024 Marine Imaging workshop
 - Out of Office
 - Jun 16 - 20 - Out of office
 - Jul 28 - Aug 6 - Vacation
- Alana Sherman
 - 901904 - Deep-Sea Coral Community Observatory
 - The Coral Macro camera was recovered last week. I downloaded the images (>19k), which took over a day. The camera stopped one week before recovery but we discovered the cards on the camera filled up with images.
 - Turning the camera around for deployment next week. Batteries have been changed, running tests and servicing the instrument. We will confirm focus in the tank today.
 - Out of Office
 - Out weds am for dentist
- George Stern

