

Engineering Weekly Report 12/29/2022 - 1/5/2023

Executive Council Notes

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Individual Activities

- Michael Anderson
- Kevin Barnard
 - 500055 - VARS, M3/RS, DSG
 - Working on upgrading Cthulhu for new Sharktopoda 2 remote control
 - Out of Office
 - COVID: 1/3-1/12
- Francois Cazenave
- Danelle Cline
- Duane Edgington
 - Overhead
 - Engineering meeting Tues
 - Group meeting Weds
 - Training. Continuing AWS Coursera course.
 - Researching AWS secrets manager, security token service, and key management service for database access secrets management
- Jon Erickson
- Kevin Gomes
 - 200105 - Core Navigation Data - MDUC
 - Kick off meeting to discuss planning, project management, and sprint definitions
 - 300059 - DMO Divisional Support - David Packard
 - Working on updates to plans for signal routing and data management
 - Overhead
 - Starting on performance review activities
 - Group overhead with meetings and yearly planning
 - Out of Office
 - Working from home due to positive COVID but should be back in the office Thursday.
- Andy Hamilton
- Kent Headley
 - Overhead
 - Review prep
 - Hiring activities (SEE, AOSE)
 - Misc admin
- Rich Henthorn
 - 300078 - DMO Divisional Support - AUV
 - Experimentation driver/server arch
 - 902305 - Event Detection using the Sedimentation Event Sensor
 - Initial planning - electronics, expenses, software tools, etc.
 - Overhead
 - Eng Meeting

- Workstation specs
- Out of Office
 - Jan 23 - 27: WFH, vacation, all-access, PDT
 - Feb 13 - 17: WFH, vacation, all-access, PDT
- Brett Hobson
- Scott Jensen
 - 708178 - Marine E Development NAV
 - The motor actually spins. After a few configuration changes and parameter updates it came down to another wire swap.
 - 901205 - ESP SURF Center
 - Supporting build of the next portable.
 - 902106 - Niobicon-Based AUV Docking Development
 - Monitoring of the electrical build of the next dock
 - DQ2210 - READI-net
 - Parts for the next build of the sampler have been fabricated and now assembly is starting.
 - Out of Office
 - 6 - 10 January, 2023 (got to get used to writing that)
- Brent Jones
- Chad Key
- Brian Kieft
 - Out of Office
 - 12/29-01/03 (MST)
- Denis Klimov
- Eric Martin
 - 901101 - Seafloor Mapping
 - Converting PC-DAS to a linux CLI
 - 901206 - Coastal Profiling Float
 - Tankside testing of sleep on anchor
 - 901405 - PowerBuoy Development
 - Assembling UPS board on test RaspberryPi to see how well it works.
 - 902204 - Scalable Robotics
 - RRE hire work
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- Thom Maughan
 - 901805 - Coastal Biogeochemical Sensing Program
 - Investigated noise on Durafet / MFET setup. Borrowed isolation transformer for water bath, recommended static mats.
 - 902004 - Planktivore
 - Reviewed and weighed housings - the shop has done a great job.
 - Project management
 - Camera controller design and layout.
 - Out of Office
 - Jan 4 - 8 CES
- Mike McCann
 - 200109 - Core Mooring Data - MDUC
 - Trying to upgrade Hyrax on elvis to the hyrax-docker 1.16 version
 - 901009 - CANON
 - Experimented with HDF5/NetCDF module for serving in64 data types
 - 901910 - Plankton Taxonomic Groups from AUVs
 - Begin implementing Monique's proxy calculations in auv-python

- Using Holoviews datashader for proxy visualization
- Rob McEwen
- Paul McGill
 - 901618 - Pelagic-Benthic Coupling
 - Working on repairing laser for Smith Macro Camera that was damaged while being put in storage
 - 901904 - Deep-Sea Coral Community Observatory
 - Did calculations for size of field of view for Coral Mega Camera deployment on Sur Ridge
 - Overhead
 - Working on materials for annual review
 - Out of Office
 - Out sick Thu and Tue
- Tom O'Reilly
- Mike Risi
- Paul Roberts
- Brent Roman
 - 901205 - ESP SURF Center
 - Helping bring up new ESP portable for Docuette's lab "ESPmarin"
 - Helping Preston improve ESP 3G Lysate recovery algorithm
 - Working with Kyle Beadle@GLERL and John Mickett@APL to diagnose ESP cell comms failures
 - 901913 - Wet Wifi
 - Modems shipped back to MBARI
 - DQ2210 - READI-net
 - Investigated various Iridium satcomms options
 - Investigated various CPU board options
 - Out of Office
 - March 8-15 visiting my dad in Sarasota, FL
- Carlos Rueda
 - Out of Office
 - Early January (tentative): vacation.
- Karen Salamy
 - Out of Office
 - Feb 13-24: vacation/father's estate finalizations.
- Brian Schlining
 - 500055 - VARS, M3/RS, DSG
 - First iteration of new [Sharktopoda](#) completed and released to the video lab. This allows localization/annotation directly on a video.
 - New Sharktopoda has been integrated with [VARS Annotation 1.4.0-rc8](#)
 - Released my first library to maven central. [Vcr4j](#), which provides the integration between VARS and Sharktopoda (among other things), has been published to <https://repo1.maven.org/maven2/org/mbari/vcr4j/>
 - Out of Office
 - Jan 3 - 11 - Vacation
 - Feb 27 - Mar 3 - Vacation (Backpacking Haleakala so not internet)
- Alana Sherman