

Engineering Weekly Report 9/2/2021 - 9/9/2021

Executive Council Notes

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Individual Activities

- Francois Cazenave
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - I went out to deploy the spotter buoy
 - 901700 - Acoustical Ocean Ecology
 - Finsihed design of echosounder frame
 - 902106 - Niobicon-Based AUV Docking Development
 - Designing docking buoy
- Mark Chaffey
- Danelle Cline
- Duane Edgington
 - 901603 - Video TAG: Visualizing Ocean Change
 - Working through learning Colaboratory (mounting google drive, etc). And PyTorch.
 - Working through Vision Transformer implementation on Colab
 - Phase 1 response to MT.
 - 902005 - VARS Annotation Assistance
 - Cleaned up notebooks, AWS SageMaker Studio, to remove unnecessary data repository
 - Message to Kevin G and Danelle C regarding AWS EFS charges and SageMaker studio
 - Overhead
 - Engr dept meeting Sept 7
 - SEIE group meeting Sept 8
 - Prep for AWS immersion day presentations.
 - Out of Office
 - Friday Sept 10. Vacation
 - Thursday Sept 9. Medical.
- Jon Erickson
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
- Ben Erwin
- Kevin Gomes
 - Overhead
 - Phase 2 responses, review, resource leveling
 - Reviewed 2022 group budget
 - SE Hire overhead planning for interviews starting next week
 - Prep for AWS immersion day (training on account management tools)
 - Help configuring new Greensea servers that will eventually replace machines on Carson
 - Verify navproc/datamanager/logging/dataprobe on Carson after Ventana reconnection
 - Tiny assist with navproc/datamanger stuff on Flyer
 - Met with Visceral who is the contractor for the web refresh project and had kickoff meeting
 - Reviewed Docker Desktop terms to understand why they are charging and how that changes for the MBARI team

- Andy Hamilton
- Kent Headley
 - 600034 - Precision Control Technologies for ROVs and AUVs
 - Working with Rich and the team to investigate an issue with TRN and DVL data from LRAUV
 - 901101 - Seafloor Mapping
 - Resolved issue with TRN hanging when using T50 sonar. With help from Erik and Teledyne tech support, we found that it was due to incorrect device ID fields in message subscription request data structures.
 - Overhead
 - Phase 2 resource planning
 - Hiring activities (interviews and meetings)
 - Strategic Roadmap activities
- Rich Henthorn
 - 600034 - Precision Control Technologies for ROVs and AUVs
 - Getting to the bottom of a tricky TRN regression test issue
 - Making progress on TRN for LRAUV
 - 800139 - EyeRIS
 - Making modifications in prep for LRAUV deployment
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Testing and monitoring buoy deployment
 - So far all is well
 - 901618 - Pelagic-Benthic Coupling
 - Prepping for Sta.M cruise that begins in 4 weeks
 - 902101 - LRAUV Technology Development and Fleet Operations
 - Running captured LCM logs through TRN
 - Out of Office
 - Sept 9, out tomorrow, on the road with email.
 - Sept 24 - Oct 1, vacation
 - Oct 6 - Oct 15, Sta.M cruise
- Brett Hobson
- Scott Jensen
 - Out of Office
 - September 13-17 vacation
- Brent Jones
 - 901009 - CANON
 - Prepping Wire Walker with new line and XEOS trackers
 - Diagnosing bad hammerhead mooring line connection.
 - Deployed Wire Walker next to Power Buoy
 - Flying Spray 34 in a box around power buoy
 - 901805 - Coastal Biogeochemical Sensing
 - Flying Spray 34 in support of Yui's experiments until pulling it off and doing work for CANON
- Chad Kecy
- Brian Kieft
 - Out of Office
 - Sep 7-8 (vacation)
 - October 25-31 (PLOCAN glider school tentative GMT+1)
 - April TBD LRAUV ops
- Denis Klimov
- Diana LaScala-Gruenewald
 - 200103 - Core CTD Data - MDUC

- Forever failed to launch roV ctd apis after reboot again - need to look into this
 - 500055 - Video Annotation DM
 - IMES tape transfer
 - 901915 - Improving MBARI Data Impact
 - Working on adding data tables to ERDDAP. Got a test data table up, but uncertainty about “correct” way to set up datasets.xml for different data types
 - Overhead
 - Weekly meeting(s)
- Eric Martin
 - 901101 - Seafloor Mapping
 - Offshore with David Caress, Jenny Paduan, Mike Risi, Chad Kacy in the Pacific Northwest supporting low altitude survey operations. The system is working well, despite some damage and wear and tear to the strobe systems, we have had excellent dives so far.
 - Out of Office
 - July 19-Aug16 Pacific Northwest for Dorado support.
- Thom Maughan
 - Out of Office
 - Vacation last week in Aug for memorial and family reunion in Colorado. 25 Aug to 3 Sep.
- Mike McCann
 - 901101 - Seafloor Mapping
 - Wrapping up graphql endpoint implementation with 100% test coverage on all model classes
 - Overhead
 - Met with Katie Pitz to discuss mooring data processing
 - Met with Chris Preston to discuss Python tools for processing Saildrone data
- Rob McEwen
 - Out of Office
 - 25 Aug - 8 Sept
- Paul McGill
 - 701145 - Penguin Hotspots
 - Ordered more power converters for Simrad sonar and did calcs to figure out how to modify them.
 - 901618 - Pelagic-Benthic Coupling
 - Preparing Macro Cam for next Monday’s cruise
 - 901700 - Acoustical Ocean Ecology
 - Tested MARS interface can for MARS Echosounder. Found minor issues and am fixing them.
 - Had Zoom meeting with former colleagues of Kelly at UNH and NOAA to help them address EMI noise issues with a Simrad WBT-Mini sonar.
 - 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Tested Deep Sea Data Connect with Alana. Finishing wiring and mechanical design of components.
 - Out of Office
 - Took vacation day Fri
- Ed Mellinger
- Tom O’Reilly
- Craig Okuda
 - Out of Office
 - Vacation week
 - Overhead
 - Bring RC microwave system on-line after trip

- Doug Pargett
 - 881135 - 3G ESP Cartridge Redesign
 - Testing the new cartridge at pressure.
 - 901205 - ESP SURF Center
 - Rebuilding oil domes on 3G ESP instruments
 - 901800.98 - Bioacoustic Payload
 - Removed material of driver weight to better fit inside shell
 - Overhead
 - Engineering mtg
 - Out of Office
 - Holiday
- Ben Raanan
 - Out of Office
 - June 8-22
- Mike Risi
 - Out of Office
 - April 26-30: Ocean Imaging Cruise
 - May 3-7: Vacation
 - June 4-11: Vacation
 - June 28-July 2: Vacation
 - August 30-September 14: Ocean Imaging Cruise
 - September 14-17: Vacation
 - Vacation on alternate Fridays
- Brent Roman
 - Out of Office
 - August 25 - September 17
- Carlos Rueda
 - 901502 - Passive Acoustic Sensing
 - Refining "Google Humpback Whale Model on Pacific Ocean Sound data" notebook
https://colab.research.google.com/drive/1vxe440am_DJebFMKXjNiFvb_cWhOdAzA
 - 901513 - Targeted Sampling by AUVs
 - Modularizing front tracking code into separate space for reusability, in particular as preparation for running onboard.
 - 902101 - LRAUV Technology Development and Fleet Operations
 - Meetings with Mike Godin re TethysL and integration preparations on the LRAUV side.
 - Overhead
 - Completed okeanids VM migration to Rocky Linux (thanks, Pat, for assistance).
 - Out of Office
 - Sep 10: vacation
- Karen Salamy
- Brian Schlining
 - Out of Office
 - Aug 30 - Sep 10 - Vacation
- Rich Schramm
 - Out of Office
 - 7/1 - 8/30 Vacation
 - 8/31 last day
- Alana Sherman

- 300080 - DMO Support Mini ROV
 - Bringing up new computer with all Mini software
 - Made first draft power budget for Benthic Epod
- 901618 - Pelagic-Benthic Coupling
 - Getting Macro tripod ready for next weeks deployment
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Testing of internal battery looks promising, so we can continue forward with the sony
- Overhead
 - Phase two proposal review and labor allocation balancing was done on Tuesday, we are 98% there.