

Engineering Weekly Report 7/8/2021 - 7/15/2021

Executive Council Notes

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Individual Activities

- Francois Cazenave
- Mark Chaffey
 - Out of Office
 - Will be OoF May 1 - 22 and unavailable.
- Danelle Cline
 - Out of Office
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- Duane Edgington
 - 901602 - Data TAG
 - Project proposal
 - 901603 - Video TAG: Visualizing Ocean Change
 - Project proposal
 - NOAA AIASI conference call Jul 12, 2021
 - 901618 - Pelagic-Benthic Coupling
 - Working on data from Laser Measure Field Test 21 June 2021
 - 901915 - Improving MBARI Data Impact
 - Project proposal
 - 902004 - Planktivore
 - Project proposal
 - 902005 - VARS Annotation Assistance
 - Project proposal
 - Overhead
 - AWS webinar on Genomic data processing. Very interesting.
 - Out of Office
 - July 18 - 24: ICML virtual conference
 - July 16. Medical appt.
- Jon Erickson
 - 701145 - Penguin Hotspots
 - Finished the chassis for the EK80 electronics shield box.
 - 800139 - EyeRIS
 - Working on design for 1,500 meter and 6,000 meter, EyeRis Camera pressure case.
 - 901217 - Chemical Sensor Program
 - First Carbon fiber tube test. Failed at 4,400psi.
 - Proposals
 - 902004 - Planktivore
 - Proposals
 - 902010 - Mesopelagic LRAUV

- Carbon Fiber PV tubes are shipped. The shop will make the test end caps from Aluminum bar stock, 4" thick.
 - Proposals
- Kevin Gomes
 - 300057 - Mooring Maintenance
 - Proposal input
 - 901009 - CANON
 - Proposal input
 - 901602 - Data TAG
 - Proposal writing
 - 901915 - Improving MBARI Data Impact
 - Proposal writing
 - 902100 - Telepresence on MBARI Research Vessels
 - Proposal input
 - Started to look at shipping data back to shore
 - Overhead
 - Group budget
 - Group meeting
 - Starting to review proposals from external vendors for web site refresh
 - Helped with getting spare navproc installed and running on Carson
 - Weekly call with Todd Ruston
 - Edited drawing numbers application to add new ESP member
 - Set up ESP portal to monitor deployments of ESP Gordon and Waldo in Montana
 - Some help with ClickUp stuff and upgraded account to business account
 - Cleaned up JIRA users to lower costs
 - Reviewed and edited some Slack user accounts per a request from Slack
 - Spent some time with ShirtPocket tech support to troubleshoot problems with my SuperDuper backups. They were great and helped me resolve this issue by telling SuperDuper to ignore Mac search indexes.
- Andy Hamilton
- Kent Headley
 - 600034 - Precision Control Technologies for ROVs and AUVs
 - Proposal input
 - 901101 - Seafloor Mapping
 - Updating and testing dorado MVC TRN code for axial cruise
 - Installing MB-System (for TRN) on mapper1,2 resons
 - 901803 - Carbon Wave Glider Development
 - Proposal input
 - Overhead
 - Proposal review
 - budget
 - Preparing labor spreadsheet
 - Making the rounds
 - Misc drop-in meetings
- Rich Henthorn
 - 600034 - Precision Control Technologies for ROVs and AUVs
 - Dorado TRN interface updates
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Connectivity monitoring app
 - 901618 - Pelagic-Benthic Coupling

- Weekly meeting
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Weekly meeting
- Overhead
 - Proposal work
- Out of Office
 - July 26 - Aug 9, mostly vacation, WFH a few days, network and phone access, definitely available to assist and GTD
 - Sept 22 - Oct 1, vacation
- Brett Hobson
- Scott Jensen
 - Out of Office
 - June 30-July 6.
 - July 12-16 - Wyoming for ESP deployment
- Brent Jones
 - 901009 - CANON
 - Helping with proposals
 - 901112 - Monterey Bay Time Series
 - Proposals
 - 901502 - Passive Acoustic Sensing
 - Proposals
 - 901800.98 - Bioacoustic Payload
 - Proposal
 - Prepped/deployed/flew Triton with new backing plates on transducers in attempt to reduce noise. Also testing different flight attitudes and speeds. Tested new missions that run the BioAc sensor
 - 901805 - Coastal Biogeochemical Sensing
 - Proposal
 - Flying Spray 34 in support of Yui's experiment
 - Out of Office
 - Vacation all last week
- Chad Keycy
 - Out of Office
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- Brian Kieft
 - Out of Office
 - Jun 28-30 (phoenix MST)
 - Jul 1-9 (vacation HST)
 - ~~Aug 5-6 (vacation)~~
 - Aug 1-11 (Great Lakes, Great LRAUVs EDT)
 - Aug 16-21 (Great Lakes, Great LRAUVs EDT)
 - Sep WHOI?
 - October 25-31 (PLOCAN glider school tentative GMT+1)
- Denis Klimov
 - Out of Office
 - June 14-18
- Diana LaScala-Gruenewald
 - 200103 - Core CTD Data - MDUC
 - Continued setting qc flags

- Rovctd API went down over the July 4th holiday; spent some time trying to understand what happened and how to troubleshoot in the future
 - 500055 - Video Annotation DM
 - LTO tapes
 - Overhead
 - Weekly meeting(s)
 - Proposals
 - Training on java servlets, java script, node.js
 - Out of Office
 - Aug. 30 & 31 - Backpacking, won't be reachable
- Eric Martin
 - 901101 - Seafloor Mapping
 - Proposal review
 - 901206 - Coastal Profiling Float
 - Testing
 - 901405 - Wave-Energy Conversion for Oceanographic Applications
 - Spot prep and controller final wiring
 - 901911 - ROVVR
 - Proposal for 2022
 - Writing MBARI's section for VRST, meeting Monday, submission Thursday.
 - Oceans paper
 - 902100 - Telepresence on MBARI Research Vessels
 - Proposal for 2022
 - Prep for Katija Expedition
 - Bringing Cindy Hanrahan on for administrative help.
 - Training Giovanna
 - 368000 - DMO AUV
 - Preparing for cruise
 - Test download cable for Reson4
 - Overhead
 - GT proposal advisement
 - Out of Office
 - July 19-Aug16 Pacific Northwest for Dorado support.
- Thom Maughan
 - 300070 - DMO Support Ventana
 - Installed and tested binaries on loaner laptop for work with DJ.
 - 901009 - CANON
 - Worked with Nate and Francisco on input for HiPP eDNA input to CANON proposal.
 - 901805 - Coastal Biogeochemical Sensing
 - Irene Hu and Yui provided change requests and bug reports. In progress implementing.
 - Reviewed 901805 2022 proposal
 - James Mc is doing a great job on programming MPHOXs with QA station. Manufacturing request for cables is in progress.
 - 901713 - Nearshore FOCE
 - nsFOCE team is working towards a dry test and a test tank test in the coming weeks. Met to discuss requirements and MphOX firmware.
 - Worked with Dale to provide support, provided a draft of user's guide.
 - 902004 - Planktivore
 - Wrote Planktivore proposal, reviewed, submitted.
 - Overhead

- Phone interview with Keith Hammond of MAKE magazine on SharkCafe Cam, techfest and open source software and hardware.
- Out of Office
 - Vacation July 7,8,9,12,13 (Family assist). Flew back on the 13th, in office on 14th.
 - Dental appointment on July 15 (was 14)
 - Vacation last week in Aug for memorial and family reunion. Exact dates TBD
- Mike McCann
 - 200109 - Core Mooring Data
 - Submitted 2022 proposal
 - 901101 - Seafloor Mapping
 - Added clunky search function for leaflet map
 - Using locate/updatedb to perform faster searches for files in /mbari/SeafloorMapping
 - Added a way to exclude Missions from the load and reloaded <https://smdb.shore.mbari.org/>
 - 901111 - AUV Infrastructure Support
 - Contributed to 2022 proposal
 - 901910 - Plankton Taxonomic Groups from AUVs
 - Contributed to 2022 proposal
 - Helping Monique & Lindsey with some Dorado data QC
 - Out of Office
 - Vacation: 23, 26 July 2021
- Rob McEwen
- Paul McGill
- Ed Mellinger
- Tom O'Reilly
- Craig Okuda
- Doug Pargett
 - 881135 - 3G ESP Cartridge Redesign
 - Investigated a proposed plunger material change.
 - FEA work on thermal heating of the cartridges to try and predict how proposed changes might work with the existing heater.
 - 901205 - ESP SURF Center
 - Answering questions
 - Investigated a potential collaboration.
 - Out of Office
 - Holidays, vacation
- 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
 - September 3-14: Ocean Imaging Cruise
 - Vacation on alternate Fridays
- Brent Roman
- Carlos Rueda

- 901513 - Targeted Sampling by AUVs
 - Python core reorganization.
 - Thanks Tom for the great progress on installing python3 on the target.
- 902101 - LRAUV Technology Development and Fleet Operations
 - Dash4: Dark mode has arrived! <https://docs.mbari.org/tethysdash/dash/changes/>

Time	Vehicle	Type	Description	Component
2021-07-14 11:53:52 (m)	triton	Direct Comms	Received 217 bytes, file: 2021/202107/20210714T174117/Express0040.lzma, momsn:	Express0040.lzma
2021-07-14 11:53:35 (m)	triton	Direct Comms	Received 86 bytes, file: 2021/202107/20210714T174117/Courier0039.lzma, momsn:	Courier0039.lzma
2021-07-14 11:53:27 (m)	triton	GPS Fix	Lat/Lon: 36.802791666481234, -121.7880453331825	
2021-07-14 11:53:26 (m)	triton	Important	Default mission has been running for 85.132625 min	Default-CheckinE
2021-07-14 11:53:00 (m)	triton	Fault	MT Queue status failed to be acquired within timeout. Will not retry this session.	NAL9602
2021-07-14 11:48:22 (m)	triton	Direct Comms	Received 206 bytes, file: 2021/202107/20210714T174117/Express0037.lzma, momsn:	Express0037.lzma
2021-07-14 11:48:05 (m)	triton	Direct Comms	Received 73 bytes, file: 2021/202107/20210714T174117/Courier0036.lzma, momsn:	Courier0036.lzma
2021-07-14 11:47:57 (m)	triton	GPS Fix	Lat/Lon: 36.80277816660233, -121.78803333212893	
2021-07-14 11:47:56 (m)	triton	Important	Default mission has been running for 79.628963 min	Default-CheckinE
2021-07-14 11:47:23 (m)	triton	Fault	MT Queue status failed to be acquired within timeout. Will not retry this session.	NAL9602
2021-07-14 11:42:52 (m)	triton	Direct Comms	Received 130 bytes, file: 2021/202107/20210714T174117/Express0034.lzma, momsn:	Express0034.lzma
2021-07-14 11:42:28 (m)	triton	Direct Comms	Received 72 bytes, file: 2021/202107/20210714T174117/Courier0033.lzma, momsn:	Courier0033.lzma
2021-07-14 11:42:20 (m)	triton	GPS Fix	Lat/Lon: 36.8027691665441, -121.78803233296579	
2021-07-14 11:42:19 (m)	triton	Important	Default mission has been running for 74.010064 min	Default-CheckinE
2021-07-14 11:37:15 (m)	triton	Direct Comms	Received 213 bytes, file: 2021/202107/20210714T174117/Express0031.lzma, momsn:	Express0031.lzma
2021-07-14 11:36:59 (m)	triton	Direct Comms	Received 84 bytes, file: 2021/202107/20210714T174117/Courier0030.lzma, momsn:	Courier0030.lzma

- TethysL: Started version 2 of the system while proceeding with a general revision of the code in terms of organization, modularization, and modernization (underlying libraries and tooling), all of this to facilitate further development while addressing new areas of emphasis.
- Overhead
 - Proposals, proposals, ...
 - IE meeting.
 - Adjustment in (meta)doc generation script to handle repository names with upper case letters.
- Out of Office
 - July 7-8: vacation
- Karen Salamy
 - Out of Office
 - July 7-9, vacation
- Brian Schlining
 - 500055 - Video Annotation DM
 - Working on ingest of IMES videos (LTOS S99512L8 through S99515L8)
 - 902002 - Fathomnet Detect and Classify
 - Loaded metadata (image dimensions, checksum) for all images in FathomNet
 - Overhead
 - Reviewing candidates for open Software Engineering position
 - Proposals!!
 - Developing benchmarks on [various microservice frameworks](#) to characterize quirks and performance.
 - Out of Office
 - Jul 19 - 30 - Vacation
- Rich Schramm
 - Out of Office
 - 7/1 - 8/30 Vacation
 - 8/31 last day
- Alana Sherman
 - 300080 - DMO Support Mini ROV
 - Reviewing applicants for MiniROV/EE Position

- Scheduling interviews for MiniROV/EE Position
- Overhead
 - Finalized budgets for EE group, and microwave
 - Finalizing expense and labor budgets for many proposals
 - On vacation last week