

Engineering Weekly Report 7/30/2020 - 8/6/2020

Executive Council Notes

-

Individual Activities

- Francois Cazenave
- Mark Chaffey
- Danelle Cline
 - 901502 - Passive Acoustic Sensing
 - Fixing an issue with dockerized deployment of blue whale model in preparation for deployment on 5yr time-series with VGGskeleton model. Processed a few days for collaborator, Will Oestreich to review; he reports 100% accuracy on test files. Model was around 92% on the validation set.
 - Summer intern discussions and drafting up collaboration agreement.
 - Ongoing decimation filtering discussions with the team.
 - 901809 - Deep Sea Bioinspiration
 - No requests yet on allocated time
 - 902005 - VARS Annotation Assistance
 - Summer intern meetings and working on fixing an issue with object detection model deployment failing in AWS but working okay on prem.
 - Out of Office
 - Off Fridays for summer duration
- Duane Edgington
 - 901603 - Video TAG: Vis Ocean Chng
 - Telluride Neuromorphic Engineering Workshop. Virtual. 8Am - noon each day this week.
 - Returning to one-shot exploration. Experimenting with a MAML implementation.
 - 902005 - VARS Annotation Assistance
 - Tri-weekly intern meetings.
 - Out of Office
 - Aug 3 - 7. Telluride Neuromorphic Engineering Workshop. Virtual.
 - Aug 23 -28. ECCV. Virtual conference. Workshops, tutorials and presentations.
- Jon Erickson
- Kevin Gomes
 - Overhead
 - Proposal review and resource balancing
 - Out of Office
 - Aug 3-5: Vacation
- Andy Hamilton
- Kent Headley
- Rich Henthorn
 - 901618 - Pelagic-Benthic Coupling
 - Installed spare system microSD card in controller to address flakey behavior
 - Testing MARS configuration in test tank
 - 901800 - LRAUV Payload & Support

- Obstacle Avoidance (oahu) updates
 - Data logging and syslogging
 - Tested Delta T client app with Imagenex Windows beamformer
- Out of Office
 - Oct 27 to Nov 5: WF cruise to Sta. M
- Brett Hobson
- Scott Jensen
 - Out of Office
 - Current schedule is Sunday-Tuesday
- Brent Jones
- Chad Kecz
- Brian Kieft
- Denis Klimov
- Eric Martin
 - Out of Office
 - I am at MBARI Mon, Tues, and Friday
 - Vacation days on thursday when available.
- Thom Maughan
 - 901009 - CANON
 - Xavier setup.
 - 901805 - Coastal Biogeochemical Sensing
 - Going thru the MFET/MCAP boards that have been reworked. Some are bad, some work fine except they don't sleep. Working to root cause the problem.
 - 901713 - Nearshore FOCE
 - Conductivity sensor setup, trying to get the sensor wired.
 - Out of Office
 - Working remote. Travel quarantine ends 7 Aug 2020.
- Mike McCann
- Rob McEwen
- Paul McGill
- Ed Mellinger
- Tom O'Reilly
- Craig Okuda
 - Out of Office
 - Vacation day
- Doug Pargett
- Ben Raanan
- Mike Risi
 - Out of Office
 - February 19-22: Ocean Imaging Cruise
 - March 9-12: Vacation
 - May 26-29: Vacation
 - June 29 - July 1: Vacation
 - September 30 - October 2: Vacation
 - October 12-17: Ocean Imaging Cruise
- Brent Roman
 - Out of Office
 - At MBARI Tuesdays after 2PM
- Carlos Rueda
 - 901502 - Passive Acoustic Sensing

- Reviewing some LPC theory and adding plots based on LPC spectral envelope along with regular the spectrograms in classification results. Planning to run exercises with LPC prediction order 20 according to typical rule of thumb based on sampling frequency.
- 901800 - LRAUV Payload & Support
 - Some (opportunistic) look at a couple of missions that fail schema validation.
 - Per Ben, checking with Brent R and Chris P about missed ESP samples during CANON.
 - Some additional functionality in the waypoint popup in Dash3 while doing some code cleanup.
- 902009 - AUV UI
 - Some replies to Leila.
- Overhead
 - As planned, [tethyssim has been shut down](#). (All TethysDash stuff moved from there has been working OK on tethytest for several weeks already.)
 - Leveling off time allocation to provide feedback for ongoing phase proposal reviews. Thanks Danelle, Brett, John, Ben for your replies.
- Karen Salamy
 - Out of Office
 - Out sick with some non-COVID “bug” this week. Feeling better.
 - Will be working on MBARI campus ONLY on Tuesdays until further notice.
- Brian Schlining
 - 902002 - Fathomnet Detect and Classify
 - Cranking away of [FathomNet development](#)
 - Deploying development snapshots. API docs at <http://quasar.shore.mbari.org:8888/swagger-ui> and <http://quasar.shore.mbari.org:8888/rapidoc>
- Rich Schramm
 - Out of Office
 - Aug-10 -21 Vacation
- Alana Sherman