

Carlos Rueda

Week 53

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
- Overhead
- Out of Office
 - Dec 21-31: vacation

Week 52

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
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- Overhead
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 - Dec 21-31: vacation

Week 51

- 300083 - DMO Support - LRAUV
 - Some TethysDash work (see below) charged here (thanks Erik).
- 708158 - DHS Y6
- 901009 - CANON
 - MXM work
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Group meeting
- 901513 - Targeted Sampling by AUVs
 - Some code cleanup to wrap up the year.
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - A number of Dash adjustments specially during WHOI vehicle deployment. As part of this, implemented preliminary version of the async notifications using our own websocket endpoint (only for cell

connection ping results at this point) so WHOI wouldn't hit the Pusher limit. Thanks much to Ryan Govostes for setting up a websocket proxy on his nginx server. Good testing!

- Motivated by this I decided to make more progress and I'm close to having a complete system (both backend and frontend) using this new websocket endpoint.
- 902009 - AUV UI
- Overhead
 - Implemented option to indicate "mkdocs" subdirectory in our [docs.mbari system](#), already exercised with that meta-documentation repository, which now also includes the code behind this service.
- Out of Office
 - Dec 21-31: vacation

Week 50

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM: reviewing OGC SensorThings.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - ASA [Poster](#) presented today 12/9. Chat session with good comments/ideas, and a few requests for "links to the poster."
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Dash is now [4.2.1](#). Already installed by WHOI as well. Incorporating some fixes and adjustments for a next version.
 - Captured "[proposal](#)" by operators in issue tracker and will wait until consensus before any further action.
 - TethysDash backend: making more progress on setting up a proper websocket server.
- 902009 - AUV UI
- Overhead
 - IE mtg.
 - [ASA Conference](#)
- Out of Office
 - Dec 8: [OGC member mtg](#) (tentative)
 - Dec 9: [ASA Conference](#)

Week 49

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM: With Tom, looking into perhaps starting to incorporate OGC SensorThings or SPS sooner than later in the design and implementation of MXM interfaces/protocols.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Finalizing ASA poster. Many thanks John for the productive discussions.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support

- Replying to IS's inquiries about Disaster Recovery procedures for LRAUV vehicles, and along the way involving LRAUV experts in the discussion so everyone is on the same page toward determining specific actions moving forward.
- 902009 - AUV UI
 - Meeting
- Overhead
 - Moved "odss2dash" service from normandy to tethysdash2.
 - Some email exchanges, and configuration adjustments are being done upon the shutdown of some machines due to CentOS6 EOL. Nothing critical.
- Out of Office
 - Dec 8: [OGC member mtg](#) (tentative)
 - Dec 9: [ASA Conference](#)

Week 48

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
- Overhead
- Out of Office
 - Nov 25: vacation
 - Dec 9: ASA Conference (virtual)

Week 47

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM work and assistance to Tom regarding access from his Neptus adapter to the MXM service via HTTP and GraphQL queries.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - More experiments, ASA poster preparation, and advancing technical report.
- 901513 - Targeted Sampling by AUVs
 - Reviewing status of front tracking code regarding python3 vs python2 toward decision making moving forward, especially wrt execution on-board the wave glider, which has traditionally required python2 (but this version reached [EOL past Jan 1, 2020](#)).
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
 - Reviewing [brainstorming presentation](#); some email exchanges.
- Overhead
 - Moving the [webhook environment for documentation generation](#) I have had under my account to docsadm on docs.mbari.org as part of next steps toward a more general setup.
 - Attended Scale by the Bay, Thr-Fri past week.
 - CentOS6 EOL: All good for declaring a successful transition to tethysdash2. IS notified.

- Out of Office
 - Nov 25: vacation
 - Dec 9: ASA Conference (virtual)

Week 46

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
- Overhead
- Out of Office
 - Nov 4: VueConf Toronto (virtual)
 - Nov 11: vacation
 - Nov 12-13: Scale by the Bay (virtual)
 - Dec 9: ASA Conference (virtual)

Week 45

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - More literature review, classification and comparisons with a nice external [tool](#) I just recently found.
 - Some ASA poster preparation.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - TethysDash backend: Implemented solution in the backend to handle improper URL encoding of commands caused by browsers.
 - Did config adjustments for proper handling of incoming SBD emails, something not previously tested in the lab as part of the ongoing migration to tethysdash2.
 - [Documentation](#) updates.
- 902009 - AUV UI
- Overhead
 - ESIP COR monthly meeting.
 - VueConf workshop today Nov 4; conference talks Nov 5-6.
- Out of Office
 - Nov 4: VueConf Toronto (virtual)
 - Nov 11: vacation
 - Nov 12-13: Scale by the Bay (virtual)
 - Dec 9: ASA Conference (virtual)

Week 44

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6

- 901009 - CANON
 - Planning to resume working on MXM.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - More HMM, Naive Bayes, and Markov classification exercises. Generating and reviewing scatter plots of classification rank vs. sequence length. Reviewing literature, resuming writing of technical report, and preparing ASA poster.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Email exchanges triggered by IS re Tethysdash dependencies and mechanisms to prepare for Disaster Recovery. This will need coordination with the LRAUV team especially in terms of the use of the LRAUV Atlas share from tethysdash2 and other tethys* machines.
- 902009 - AUV UI
- Overhead
 - CentOS6 EOL: [Migration of TethysDash production server still to undergo verifications](#) by the LRAUV team (little feedback so far). All looks OK from my side but ideally at least one or two OKs from others would be great to declare completion of this task. All services on the previous tethysdash VM have been disabled (apache, tomcat, cronjobs). Reminder email sent to LRAUV team to help with verifications.
 - CentOS6 EOL: With reference to other past emails regarding the long unmaintained kelp.mbari.org server (which is behind <http://aosn.mbari.org/>), emailed LRAUV team again, in this case indicating that unless I'm told otherwise, no action will be taken wrt to CentOS6 EOL on that machine. Mike Godin forwarded the email to J. Bellingham.
- Out of Office
 - Nov 4: VueConf Toronto (virtual)
 - Nov 11: vacation
 - Nov 12-13: Scale by the Bay (virtual)
 - Dec 9: ASA Conference (virtual)

Week 43

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Preparing for a next round of classification exercises and also for the ASA poster.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - TethysDash: Some more experimentation toward a proper websocket server.
- 902009 - AUV UI
- Overhead
 - CentOS6 EOL: [Migration of TethysDash production server](#) pretty much completed and under testing. LRAUV team asked to perform verifications.
- Out of Office
 - Oct 15-16: vacation

Week 42

- 300083 - DMO Support - LRAUV

- 708158 - DHS Y6
- 901009 - CANON
 - MXM: some assistance to Tom regarding his Netpus adapter.
- 901101 - Ocean Imaging
 - Replied to Dave's email regarding questions about automated builds at Docker Hub.
- 901502 - Passive Acoustic Sensing
 - Met with John to catch up with status and start preparing ASA poster.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Dash4, now [4.1.4](#), with various adjustments, now including Steve's ESP status widget. Also some fixes as operators provide feedback during ongoing CANON.

- TethysDash backend (both regular and dockerized) now running on Tomcat 8.5.58.
- Doing some preparations for a proper WebSocket server in TethysDash and corresponding connection from Dash4 clients. Good preliminary results. General idea is to lessen, and even eventually remove, dependency on the external service for asynchronous notifications.
- WHOI Dash upgraded to 4.1.1.
- 902009 - AUV UI
- Overhead
 - IE meeting. Software licensing discussion.
 - docs.mbari: adjusted TethysDash and TethysL webhooks so they now use HTTPS access.
- Out of Office
 - Oct 15-16: vacation (I had previously entered Oct 22-23 by mistake)

Week 41

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- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Dash version 4 officially released! Now, [4.0.1](#).
 - TethysDash: Upgrading Tomcat to latest 8.5 version from version 7, which is fast approaching [EOL, March'21](#). This requires revision/adjustment of some config files related with URL encoding and directory listing. Good preliminary testing (both regular and dockerized).
 - Some minor config adjustments in preparation for CANON.
 - Reviewing general documentation and applying several updates already.
 - Dash4: further UI adjustments; code cleanup; quasar/app smoothly [upgraded to 2.0.0](#).

- WHOI has already upgraded to TethysDash 4.0.1.
- 902009 - AUV UI
- Overhead
 - Some work toward completing migration of the tethysdash VM due to CentOS 6 EOL.
 - ESIP COR meeting. With SemTech lead (JPL), reviewed various github tickets.
- Out of Office
 - Oct 22-23: vacation

Week 40

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - Met with Tom O. regarding Neptus adapter for MXM.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Satisfactory non-simulated testing with Pontus and ESP of recent adjustments in ESPComponent for [TETHYS-612](#). Thanks Brian for your assistance and Brent R. for checking the resulting logs. Hopefully, relevant PRs will be merged soon.
 - Assistance during WHOI's vehicle deployment related to issues involving SBD receipt email handling, a bug I inadvertently introduced back in July but only noted today even though it was also there in our own MBARI instance with nobody complaining since then. I fixed the issue, updated our instance, made a hotfix release for WHOI, which was applied and apparently all seems to be working great there as well.
 - Doing further adjustments in various code repos for a proper version 4 release of the Dash UI (user/admin webapp; dash itself; tethysdash-docker...)
- 902009 - AUV UI
- Overhead
 - Resuming work on final steps for [migration of the tethysdash VM](#) due to CentOS 6 EOL. Sent an email to key LRAUV folks to plan for the necessary coordination and participation.
 - XDOMES: provided input for the upcoming Project Outcomes Report to NSF.
- Out of Office

Week 39

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- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Group meeting
- 901513 - Targeted Sampling by AUVs
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- 901800 - LRAUV Payload & Support
 - TethysDash [docker image 3.9.982](#) released and announced to WHOI. Various adjustments applied while preparing and testing the release.
 - Continuing with code cleanup and adjustments, both backend and Dash frontend, especially as the recent enhancements are exercised in real operations (today, for example, with some fixes in the Docs handling).

- Upgraded the OpenAPI spec (to v3.0.1) for the TethysDash API as well as the underlying SwaggerUI tool that powers <https://docs.mbari.org/tethysdash/apidocs/>.
- TethysDash backend: Upon some close inspection of this legacy handling, adjusted some logging related with "emaillogs," which is the typical major "culprit" when we get those occasional alerts from the system about less the 85% space becoming available on the machine. With just avoiding the thousands of repeated, almost-uninformative lines, we are now going to save more than 100Mb of unnecessary log stuff per year, as measured by grepping for the mentioned lines in what's currently captured for 2020.
- 902009 - AUV UI
 - Exchange with Jasmine Otto related to her great feedback to recent Dash improvements, her work, and some questions re TethysDash API.
- Overhead
 - IE: put together a simple Vue/Quasar app that demonstrates user authentication using Firebase. Instructions, screenshots and more details [here](#). App deployed [here](#).
 - Reported to IS what looks like a Mimecast bug: Under the On Hold folder, Mimecast claims that "images are not being displayed" but they are.
 - ESIP Semantic Technologies meeting.
- Out of Office

Week 38

- 300083 - DMO Support - LRAUV
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- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
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- 901800 - LRAUV Payload & Support
 - Dash is now [3.9.981](#) with various adjustments and enhancements especially in the "smart waypoint editor" (distance/depth information, direct waypoint dragging on the map, etc.).
[Mission](#) and [Map Markers](#) documentation pages updated. Have gotten very good reactions from a few users already especially in terms of suggestions (most of them already addressed), but not yet in terms of actual testing, which needless to say is critical moving forward with the full enabling of the new Command and Mission tab implementations.
 - Will soon be preparing a new docker release with the latest and greatest to WHOI, even with the ongoing transition features. Their own testing will be most welcome as well.
- 902009 - AUV UI
 - Brief exchange to ask Leyla and team for any feedback regarding latest Dash enhancements.
- Overhead
 - Final report of the EarthCube X-DOMES project has been submitted to NSF.
 - IE meeting (user authentication/authorization discussion; firebase-based demo)
- Out of Office

Week 37

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs

- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Dash: Approaching our v4.0 target!. Focusing on the new [Mission](#) tab, Dash is now [3.9.970](#). This tab and the also new Command tab are already pretty functional but still in "pre-release" form. Some operators have been kindly asked to test and provide feedback. Working now on a smart waypoint editor to greatly facilitate mission preparation before submission.
Related open tracker entries: td#59, td#61, dash#23, dash#45
- 902009 - AUV UI
- Overhead
- Out of Office

Week 36

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Dash: new [Command tab](#) interface implementation completed and enabled. Should be fully functional already but, as a next step of course, testing by operators is needed.
Starting to look into the Mission tab, where some pieces from the Command tab implementation as well as from the MXM frontend will be leveraged.
- 902009 - AUV UI
- Overhead
 - Daphne watchstanding shift.
 - Monthly ESIP COR meeting.
 - Starting to review a significant contribution ([PR](#)) to my *tscfg* tool.
- Out of Office
 - Sep 4: vacation

Week 35

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - Some MXM work
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Advancing 'Command' tab re-implementation in Dash3, one of the pending items toward usability improvements in [version 4](#).
- 902009 - AUV UI
- Overhead
 - IE and Eng meetings
 - ESIP: minor COR maintenance; discussion with collaborator.
- Out of Office

Week 34

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM: updates to some libraries to address security alerts.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Meeting. Resuming work on technical report.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Working on second part of adjustments to address [TETHYS-612](#).
- 902009 - AUV UI
- Overhead
 - Provided input for NSF annual report related to the X-DOMES project.
 - ESIP: As suspected, diagnosed and reported issue with pyLODE tool.
 - Created ORR [release](#) and updated the instances under our control (ESIP, X-DOMES, MMI).
 - Some more Rust learning, in this case with basic socket programming while putting together an [ESP Client](#) program (similar to Brent's Ruby version), which is also turning out pretty useful to inspect interactions for LRAUV's ESPComponent development purposes.
- Out of Office

Week 33

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Submitted abstract to ASA (thanks John!).
 - Putting together a technical report about the various VQ/HMM experimentation exercises.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Re-set up test environments on tethyscode and bufflehead with LRAUV/ESP simulators while preparing for [TETHYS-612](#) (a complete fresh 2-sample ESP exercise [here](#)). Reproducing and addressing the issues. Thanks Ben and Brent for your input.
 - Regular LRAUV meetings resumed.
- 902009 - AUV UI
 - Work session with Jasmine, mainly focused on the Dash playback feature but also with aspects related with simulator and user accounts.
- Overhead
 - Attended a couple of the intern presentations.
 - ESIP: Discussions related to an issue to display some ontologies with the pyLODE tool (most likely not an issue in the COR repository itself).
- Out of Office

Week 32

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON

- 901101 - Ocean Imaging
- 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.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 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 tethystest for several weeks already.)
 - Leveling off time allocation to provide feedback for ongoing phase proposal reviews. Thanks Danelle, Brett, John, Ben for your replies.
- Out of Office

Week 31

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - Continued monitoring experiment activities on a regular basis (also see LRAUV bullet).
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
 - Proposal reviews and feedback
- 901800 - LRAUV Payload & Support
 - Lots of work on Dash3/TethysDash as CANON progressed, with some fixes and various significant additions and improvements, see <https://docs.mbari.org/tethysdash/dash/changes/> and related new/updated pages. Also, more review and PR related with mission validation.
- 902009 - AUV UI
- Overhead
 - ESIP Summer meeting
- Out of Office

Week 30

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM development
 - Monitoring and responding to inquiries during ongoing CANON experiment
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support

- TethysDash: Various other adjustments in API for event data and vehicle configuration requests. ([3.6.6](#)) Diagnosing strange issue regarding password reset email that is sent out but never delivered (thanks Katie for reporting and help). Other addresses work just fine. Added copy of such emails in the “Sent” folder, which also confirms the emails are being dispatched.
- Dash3: Completed reimplementation of Config tab with improved UX features. Besides the display of the recently added 2020 CANON vector features via tile layers, there's now also an experimental option to select them via the source KML files directly (ODSS Atlas share enabled on the VM for this purpose). Various other adjustments ([3.9.941](#)).
- Put together a specific documentation page about [how Dash3 visualizes waypoints](#).
- LRAUV: Have spent some time reviewing (routinely used) mission files that are not conformant to the schemas in an attempt to diagnose some of the concrete issues and possible measures for fixing. Most immediate motivation is the successful parsing of waypoint information for visualization in the dash, but also for the processing that Steve uses in his status widget (as well as preparation for future TethysL work). Submitted [PR](#) for this purpose, including some text to the CONTRIBUTING.md file to encourage mission authors to strive for compliance with consideration for some aspects.
- 902009 - AUV UI
- Overhead
 - Satisfactory use of tethystest for all things TethysDash previously done on tethyssim (which as planned will be shutdown on July 30 -- reminder email sent to all people with accounts there).
- Out of Office
 - Jul 14-15, 22: ESIP Summer Mtg (virtual). With Lewis McGibbney (JPL) I'm presenting the ESIP Community Ontology Repository, besides attending other sessions.

Week 29

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
 - Proposal review.
- 901800 - LRAUV Payload & Support
 - TethysDash backend now directly “pushes” LRAUV GPS fix positions to the tracking DB/ODSS. This replaces the external “microservice” (in place on pismo for a couple of years) as a way to make this functionality more robust and reliable.
 - TethysDash and Dash3's overhauled document handling now has the ability to directly attach vehicles to documents: <https://docs.mbari.org/tethysdash/dash/changes/>.
 - Reimplementing the “Config” tab in Dash3 to replace the corresponding one in traditional TethysDash UI. After this, I plan to start addressing the “Mission” tab where work on MXM will be leveraged regarding editing of mission parameters.
- 902009 - AUV UI
- Overhead
 - Feedback to various project proposals (phase 1).
 - CentOS6 EOL: Completed [migration of TethysDash stuff from tethyssim to tethystest](#). Now under testing. Tethyssim to be shut down by July 30. Updated the [SE Maintained Servers doc](#).
 - ESIP COR: helped troubleshoot unexpected issues with the amazon instance (solved by now and apparently due to lack of enough CPU power).
- Out of Office
 - Jul 14-15, 22: ESIP Summer Mtg (virtual). With Lewis McGibbney (JPL) I'm presenting the ESIP Community Ontology Repository, besides attending other sessions.

Week 28

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM: code reorganization to separate server and webapp components; new docker image 0.8.2. Determining next steps, possibly continuing with Postgraphile as GraphQL-enabler, but also revisiting Prisma and looking at other options. Enabling Typescript, initially on the server side, to hopefully make development more manageable.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Meetings
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Quick fix to issue in document saving and other improvements in Dash3 (now [3.9.89](#)).
 - A productive reattempt at an [LSP](#) implementation as preparation to enable this protocol for TethysL, hopefully next year. With some better resources out there, put together a repo with complete simple exercise https://github.com/carueda/hello_lsp
 - Restarted broken service that relays LRAUV GPS positions to the trackingDB/ODSS.
- 902009 - AUV UI
- Overhead
 - CentOS6 EOL: Advancing migration of [TethysDash stuff from tethyssim to tethystest](#), with the goal of shutting down tethyssim after that.
 - Some input to Data TAG abstract feedback.
 - ESIP: Got complimentary speaker registration for the Summer meeting (July 14-24)
 - ESIP COR monthly telecon.
 - Attended part of Tom's design review re his work on new GUIs for MB-System.
 - Attended ACM TechTalk: "Apache Arrow and the Future of Data Frames"
 - Attended two of the [Quasar.Conf](#) online conference presentations.
- Out of Office
 - Jul 14-15, 22: ESIP Summer Mtg (virtual, and not whole days)

Week 26

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Meeting
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Dash3: First phase of an overhauled document handling implementation is almost complete. The new Dash3 version is [v3.9.87](#). Along with various general UX improvements, this should also fix some of the issues with the traditional UI, and provide a much better basis for other possible enhancements: <https://bitbucket.org/mbari/lrauv-dash/issues/62>
- 902009 - AUV UI
- Overhead

- Continued dealing with crashes in my macbook. Among several measures, it seems like disabling SEP is helping make my computer behave normally again. We will see how this goes for 1-2 more days to determine next steps. Thanks Doug for all the help.
- ESIP Semantic Tech meeting. Did a fix to issue involving resolution of SWEET ontology terms.
- Out of Office
 - Jun 19: vacation

Week 25

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM: doing adjustments due to some regressions; Upgrading packages.
- 901101 - Ocean Imaging
 - Some [edits](#) for clarification in the docker user instructions. (Thanks Giancarlo for the feedback.)
- 901502 - Passive Acoustic Sensing
 - Meetings
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
 - Abstracts review.
- 901800 - LRAUV Payload & Support
 - Starting [new handling of documents](#) (one of the pending modernization aspects wrt the traditional TethysDash UI) including API support from backend. Along with this, considering possible database schema changes.
- 902009 - AUV UI
 - Group meeting (general update from the students).
- Overhead
 - IE mtg
- Out of Office
 - Jun 19: vacation

Week 24

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
- Overhead
- Out of Office
 - Jun 8-10: vacation

Week 23

- 300083 - DMO Support - LRAUV
 - Enhancements to deployments overview page, including a permalink feature ([example](#)).
- 708158 - DHS Y6
- 901009 - CANON
 - Preparing again for updates and work on MXM.

- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
- Overhead
 - Got invitation from <https://www.mdpi.com/journal/remotesensing> to be Guest Editor of a special issue on Big Data Analytics and Visualization for Oceanography.
 - ESIP: Some ORR software enhancements and some coordination with NERC (UK) and SensorML folks regarding issue of broken definition links. Also, toward motivating potential contributors (and thus continue transferring this development to ESIP), put together a quick prototype based on Vue/Quasar as a possible new basis for an overhauled semantic portal. This has been very well received as expressed in slack channel and during last COR telecon.
- Out of Office
 - Jun 8-10: vacation

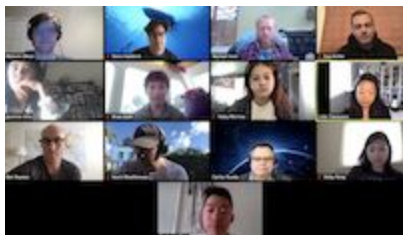
Week 22

- 300083 - DMO Support - LRAUV
 - Started work on a [deployment overview](https://oceanids.mbari.org/dash3yz/#/-/:Reports) feature for the Dash as proposed by Erik. Initial prototype at <https://oceanids.mbari.org/dash3yz/#/-/:Reports>
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
 - Rebuilt/published docker image 5.7.6beta37 upon the proper release notification, and updated and tested the instance on mbscentos7. Also updated the general status at [github](https://github.com).
 - Thanks Dave for the testing and finding a nice solution for the OpenGL issues on Mac. Also for the email indicating the image is “a fully viable way to process data locally with MB-System.”
- 901502 - Passive Acoustic Sensing
 - More experimentation with classification. Wrote python scripts to help [visualize the results](#) along with the original wav data (spectrogram).
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
- Overhead
 - As announced a couple weeks back, old okeanids will be shut down this Friday.
- Out of Office
 - A few hours spent on kids school related activities.
 - May 29: vacation

Week 21

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
 - Dave's starting to do some tests related with the dockerized MB-System.
- 901502 - Passive Acoustic Sensing
 - With John, performing labelling analysis based on HMM classification results.

- ECOZ2 executable binaries for Linux and MacOS now automatically [built and released](#) on Github. (See overhead item).
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI



- Team meeting.
- Overhead
 - Some more input to the [server inventory document](#).
 - AWS discussion; IE meeting; Eng meeting.
 - More Rust learning while enhancing implementation of machine learning techniques applied to whale song units. Also the executable binaries for Linux and MacOS are now built and released using [Github Actions](#) (here is the release workflow file for [Rust](#), and for [C](#)).
- Out of Office
 - A few hours spent on kids school related activities.
 - May 29: vacation

Week 20

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - Resuming work on MXM.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - More parameter tuning in [HMM training](#). Interesting new insights in that some parameters can actually be given smaller values to improve performance while avoiding overfitting.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Various enhancements in TethysDash configuration and better handling in Dash3 for edge cases where the backend is not properly configured. New docker image 3.9.82.
- 902009 - AUV UI
 - Assistance to UCSC regarding adjustments needed for TethysDash to be able to access vehicle config and mission repositories.
- Overhead
 - IE & Eng meetings
 - Some input to the [server inventory document](#).
 - The NOAA OTT Proposal, led by TAMUCC, submitted to extend and expand the SensorML editor and the registry, will not be funded this year but will be considered for next fiscal year.
- Out of Office
 - A few hours spent on kids school related activities.
 - May 15: vacation

Week 19

- 300083 - DMO Support - LRAUV

- 708158 - DHS Y6
- 901009 - CANON
 - Resuming work on MXM
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Dash3: General dependency upgrade (this time triggered by a broken dependency). Enabled CI builds at bitbucket. Initial integration of Erik's cell phone coverage map and planning on allowing leaflet layers from configuration in general.
 - LRAUV Sim: As possible workaround to [Docker Hub issue](#), adjusted rule for the automated build triggered by tag push but to no avail yet (pushes to master are handled just fine). Also had to re-assign ssh keys to all repos under lrauv-application as the previous one stopped working unexpectedly at Docker Hub for some reason.
- 902009 - AUV UI
- Overhead
 - CentOS6 EOL:
 - okeanids6: New okeanids tested with and fixed for SSL connection from vehicle. (Thanks Joe for the SSL fix). Old okeanids/6 ready to be shut down. Email sent to people having accounts there, with May 29 as shutdown date.
 - tethyssim: Moving all TethysDash related stuff in tethyssim to tethystest (formerly named tethysdocker). Heads-up email sent to all people with an account on tethyssim.
 - tethysdash: doing one more revision toward plan for coordination and cutover actions.
 - IE mtg
 - tscfg: Responded to [issue](#) report and discovered and reported an [issue](#) in Lightbend Config.
 - (plus personal interest) More general exploration/learning on compute performance techniques and tools; learning about [Apache Arrow](#) and [Rust's ndarray](#) package (among other things).
- Out of Office
 - A few hours spent on kids school related activities.
 - May 15: vacation

Week 18

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
 - MB-System dockerization is pretty advanced now, with good testing not only on MacOS but also on a Centos7 vm, including an exercise during a Slack session with Dave, where we ran a GUI program and verified read/write access to a Titan share. Updated the [user-oriented instructions](#) and improved the [launcher script](#) so it's easier to use. Looking forward to [some more testing by more users](#), hopefully including on an Ubuntu host as well.
Thanks Pat for assistance with VMs and Brian S. for the quick feedback.
(BTW, attention on the Windows 10 target has been postponed, in part because it's of lower priority and also because of difficulties that prevented us -including IS- from setting up Docker Desktop on a vm for that purpose. A proper Windows computer could be considered later.)
- 901502 - Passive Acoustic Sensing
 - Meeting
 - Some catching up regarding improved compute performance, see overhead/personal bullet.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng

- 901800 - LRAUV Payload & Support
 - Automated LRAUV docker image build at Docker Hub enabled for the lrauv-application repo directly. Will be exercised next time a git tag with the usual YYYY-MM-DD pattern is pushed.
 - Some exchange with Brett about TethysL work for 2021, including time allocation for Mike Godin so we can ensure correct translation and execution semantics.
- 902009 - AUV UI
 - Replies to and some coordination to address minor requests from UCSC.
- Overhead
 - Engineering zoom mtg.
 - (plus personal interest): Lots of learning regarding compute performance. By using [OpenMP](#) for multi-threading I immediately got a 4-5x speed-up in a program for linear predictive coding (on my macbook) with [minimal adjustments](#) to the C code (which was already highly performant but originally designed for a single core). Also exploring a bit <https://github.com/flame/blis> (which supports parallelism via either OpenMP or pthreads).
 - ESI Semantic Technologies mtg.
 - Assistance to a collaborator with some adjustments to the ORR semantic portal toward enabling [pyLODE](#) as one ontology viewer.
- Out of Office
 - A few hours spent on kids school related activities.
 - May 1: vacation

Week 17

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
 - Advancing MB-system dockerization. Doing GUI testing on both linux and macos, and soon on windows 10 (thanks Pat for the VM). Putting together a general [doc](#) with links and some notes.
- 901502 - Passive Acoustic Sensing
 - Speeding up some of the whale song unit analyses via [multi-threading](#).
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - After deeming the pre-release testing satisfactory, went ahead and completed the [3.9.8](#) release of Dash3. Not much different in the external user interface, but this is a significant release due to [major changes in the underlying web framework, Quasar](#).
 - Built, tested and published [mbari/tethysdash:3.9.8](#) docker image. Already deployed at <http://tethysdash2.shore.mbari.org/> as part of preparations for tethysdash vm migration.
- 902009 - AUV UI
 - Via slack, Leila introduced [Jasmine Otto](#) to me. Jasmine is “interested in prototyping different UIs for the LRAUV operations.”
- Overhead
 - CentOS6 EOL: [okeanids vm migration](#) completed today 4/22. Many thanks to Joe and Pat for their assistance as well as to some LRAUV operators for their patience and feedback while finalizing some adjustments. (The old vm will be accessible at okeanids6 for some time.)
Next up is the migration of the tethysdash vm (significantly more complex but [progressing](#)).
 - IE & Engineering meetings.
 - Provided some input to Earthcube’s office coordinator re description of the X-DOMES project (they are working on an updated website).
- Out of Office
 - A few hours spent on kids school related activities.

- May 1: vacation

Week 16

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM: Actually I enabled snyk.io vulnerability monitoring for <https://github.com/mbari-org/mxm> this week. (Snyk has proved useful for me in other js and scala projects, sometimes giving more detailed diagnostics compared to Github. The snyk CLI is also handy.)
- 901101 - Ocean Imaging
 - Resuming some work on MB-system dockerization (syncing with upstream, checking other docker related activities there).
- 901502 - Passive Acoustic Sensing
 - Group meeting. Presented recent [HMM exercise](#) on 4.5hr whale song unit data.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - LRAUV: Per Ben's request, [fixed a compiler warning](#) in ESPComponent, exposed with the use of more recent gcc versions wrt the one currently used on tethyscode.
- 902009 - AUV UI
- Overhead
 - CentOS 6 EOL: *okeanids* migration completion ready to proceed. Emailed key LRAUV folks for any comments/concerns and to proceed hopefully very soon. After this I'll focus on the preparations for the *tethysdash* migration (pretty advanced already).
 - SE IE and Engineering meetings.
- Out of Office
 - A few hours spent on kids school related activities.
 - April 17: vacation

Week 15

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM: A few [lib upgrades](#) to address vulnerabilities reported by github and snyk.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Advanced [cffi](#)-based [python wrapper](#) (with a [callback added to C code](#)) and with that, ran an [initial HMM training exercise with wandb](#) involving a metric (sum of log of probabilities).
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
- Overhead
 - CentOS6 EOL: Advancing 'okeanids' ([notes](#)) and 'tethysdash' ([notes](#)) migrations. Thanks Pat, Joe, Adriana for your assistance.
As part of this:
 - New TethysDash [docker image](#) released and being used on tethysdash2 (accessible via okeanids2, e.g., <https://okeanids2.mbari.org/dash3/>).
 - Now proxying tethyscode directly to expose LRAUV mission XML schemas: <http://okeanids2.mbari.org/tethys/XML/>

- SE IE and Engineering meetings.
- Looked into issue of a program on pismo under my account being unexpectedly killed, multiple times. (Turned out to be a more general Atlas connectivity issue.)
- Out of Office
 - April 9: vacation

Week 14

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
- 901101 - Ocean Imaging
 - Looking into resuming work on dockerizing MB-System.
- 901502 - Passive Acoustic Sensing
 - Ran HMM training/evaluation sessions with several [parameter variations](#).
 - Similarly as with a set of whale song unit files and labelling of a few months ago, I also ran a [clustering-based classification](#) on the more recent 4.5 recording and John's labelling.
 - Exploring possible tools/services to facilitate model tuning, including [wandb](#) (thanks Danelle for the references), [comet.ml](#) / [mlflow](#), [dvc](#) (this one promising but not yet as useful after some investigation, including an actual exercise and putting together a [repo](#) at dagshub.com).

Moving forward, writing a [python wrapper](#) for the software to facilitate use of those various tools.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
- 902009 - AUV UI
- Overhead
 - As planned, [migration of the MMI ORR](#) to a different machine is progressing today April 1st in coordination with the TAMUCC IT team and Stanford.
 - Also, a separate [urgent task](#) arose to update the docker yum repository pointer (as well as docker itself) on the xdomes machine. [I have taken care of this already](#), reviewed OK by the TAMUCC IT team.
- Out of Office

Week 13

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
 - Occasional interaction with WHOI over Slack. Provided info about Postgres database size.
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Completing a major upgrade of the underlying web framework in Dash3. This involves [non-trivial changes](#) due to several incompatibilities. This task was planned for much later in the year. However, given the current circumstances, I decided it was a good task to address now. Pre-releases available for testing at <https://oceanids.mbari.org/dash3yz/>. More details [here](#).
 - Downgraded Pusher plan to the free "Sandbox" given current circumstances.
- 902009 - AUV UI
- Overhead

- Migrating the MMI ORR services to a different VM at TAMU-CC as part of a general migration from CentOS 6 also taking place there. The MMI ORR will be upgraded to the latest version of the software as well as run in a containerized way like all other ORR instances out there.
- SE IE slack and Engineering zoom meetings.
- Out of Office

Week 12

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
 - Assistance to WHOI. New TethysDash [docker release 3.9.77](#) already installed. Temporary, now unneeded workaround with CNAME removed (thanks Pat).
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Along with various code adjustments (incl improved command-line interface using Rust), completed a first pass of HMM based classification on the 4.5-hour whale song unit recording provided and labelled by John: <https://github.com/ecoz2/ecoz2-whale/tree/master/exerc01>. The accuracy on test data (not training data) is now 75.7%, a significant increase wrt to a previous exercise (57.3%) involving a different set of recordings and [preliminary labelling](#).
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - New TethysDash docker release 3.9.77 incorporating recent backend and frontend changes. Tested on our staging server [tethysdocker](#) as well as on [tethysdash2](#) (the one being prepared as the production server as part of the migration to CenOS7).
- 902009 - AUV UI
- Overhead
 - Remote work session with ESIP SemTech lead related with assistance in Scala programming and use of semantic libraries toward enhancements to the set of SWEET ontologies.
- Out of Office
 - Mar 12, Apr 9: Vacation

Week 11

- 300083 - DMO Support - LRAUV
 - Assistance to Erik re the Dash “synchronization” operation to reflect updates in the config and mission repositories.
- 708158 - DHS Y6
 - TethysDash related assistance to WHOI, including a workaround (with IS’ help) so their cell connection status check is performed against the actual server on their side. (Proper fix pending, probably involving the LRAUV side depending on input from the LRAUV team.)
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Regular meeting (Danelle’s presentation on PCEN).
 - Applying VQ and HMM on labelled data on the 4.5hr recording file provided by John.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Dash3 now v.[3.9.77](#) with initial integration of Steve’s status widget. We’ve been discussing possible next steps. Thanks Steve!

- 902009 - AUV UI
 - Assistance to UCSC collaborators setting up dockerized TethysDash.
- Overhead
 - Brown bag: ES / CQRS. Put together [some notes](#).
 - Completed migration of the ESIP COR system to a new Amazon instance.
- Out of Office
 - Mar 12, Apr 9: Vacation

Week 10

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
 - General revision to address configurability of the external Pusher service for async notifications to the UI clients. Released dockerized TethysDash system 3.9.76. Already tested at WHOI. Good progress in general. Thanks WHOI for the feedback.
- 901009 - CANON
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - More additions to Dash3 (auto-refresh also in the Data tab and other internal adjustments and lots of code cleanup), Now [3.9.76](#).
 - TethysDash backend: Improved git request handing (via re-attempts) that deals with the occasional issues (still happening!) when connecting to Bitbucket to fetch all updates for the config and mission repositories. TethysDash backend is now [3.4.8](#).
 - TethysDash REST API: Besides ISO 8601, also Unix time is now accepted for date-time parameters in relevant request operations. (Thanks Steve for the suggestion.)
 - Some discussion triggered by recent Erik's email regarding possible ways to overhaul the document handling in TethysDash.
- 902009 - AUV UI
- Overhead
 - Brown bag: Kafka (IE meeting)
 - ESIP COR: Good progress on preparations for migration of the COR and the sweetonology.org support to a new Amazon instance. Now deciding with the ESIP [Lab director](#) on cutover date to proceed with final database transfer and tests.
- Out of Office
 - Mar 11-12, Apr 9: Vacation

Week 9

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
 - Prepared and released dockerized TethysDash system [3.9.73](#). Successfully installed by WHOI, although discussions continue as they get to exercise the system.
- 901009 - CANON
 - MXM development, with various adjustments done to the TSAUV Front tracking implementation to reflect MXM provider interface changes.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing

- Looking into the segmentation file provided by John, with the idea of possibly “correlating” this information with the clustering exercises already performed, and maybe even somehow assisting some new clustering variation.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Couple of additions for Dash3, now [3.9.74](#).
- 902009 - AUV UI
- Overhead
 - SE IE Group meeting; Attendance to ER presentations.
- Out of Office
 - Feb 25: Sick
 - Feb 21, Mar 11-12, Apr 9: Vacation

Week 8

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
 - Per email with Ryan re issues with Argos emails (which we recently also noticed and addressed), will prepare release with updated instructions (esp re configuration changes).
- 901009 - CANON
 - MXM development, with additions to TethysDash as MXM provider. Although TethysDash has limited support for reporting mission status, this is a good opportunity to also revise that aspect for some future improvement in the TethysDash data model itself.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Reviewed TethysDash and LRAUV code regarding TCP communication wrt to emails via Iridium (when TCP is available, the comms are initiated by the vehicle). Added some related text to <https://docs.mbari.org/tethysdash/#lrauv-tethysdash-communication>.
- 902009 - AUV UI
- Overhead
 - More preparations for TethysDash migration to Centos7 and Docker. [Document updated](#). (Thanks Pat for your input.)
- Out of Office
 - Feb 21, Mar 11-12, Apr 9: vacation

Week 7

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
- 901009 - CANON
 - MXM development especially regarding interaction and data synchronization with external providers. Looking into somehow enabling Typescript as the lack of types is becoming painful.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
 - Group meeting. Some paper reading.
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support

- TethysDash: For Argos email handling, per Brian's request, now target vehicle can be determined based solely on the platform number when no Argo program is provided in the received email.
- Dash3: Improved handling of webapp page load when backend server is not available.
- 902009 - AUV UI
- Overhead
 - More testing in preparation for migration of TethysDash production system to CentOS 7 + Docker. Putting notes about this including a preliminary plan for cutover in this [document](#) (shared with Pat and some LRAUV folks).
- Out of Office
 - Feb 21, Mar 11-12, Apr 9: vacation

Week 6

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
 - Email with WHOI to clarify aspects related with TethysDash/LRAUV communication at the application level.
- 901009 - CANON
 - MXM development, including expanded operations to the MXM provider API on top of TethysDash to start testing actual submission of missions.
- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - Some monitoring of the recent Daphne deployment. Very glad to see the mbts_sci2 mission in action and performing well. Thanks Brent and Brian for putting it to work. Would be great to reflect the recent changes in the TethysL version. (Riley Rettig, our summer intern last year, helped write the first version of this mission in TethysL.)
- 902009 - AUV UI
- Overhead
 - Put together and shared [some notes about CI/CD](#).
 - SE IE Group meeting. Presented the MXM setup for continuous deployment using [Watchtower](#).
 - Advancing CentOS migration for 'tethysdash' and looking into time frame for 'oceanids' as well.
 - ESIP asking me about possible time frame for one more AWS instance migration for the COR.
- Out of Office
 - Feb 21, Mar 11-12, Apr 9: vacation

Week 5

- 300083 - DMO Support - LRAUV
- 708158 - DHS Y6
 - Setting up automated TethysDash docker image build on Docker Hub.
 - Continued setting up the tethysdash2 VM. Besides migrating to CentOS 7, a key goal is to also enable the dockerized version of TethysDash for our production server (as we are doing with external installations!). As part of this, testing relevant configuration settings to use the Atlas share from the docker container.
- 901009 - CANON
 - [MXM meeting](#) with Kevin and Tom O. about status and next steps.
 - MXM [java client library](#) (for Tom's Neptus adapter): additions and more [documentation](#). The library is automatically [generated and released](#) using Travis-CI. Now, toward moving forward in a more streamlined way, looking again into automating the generation of the client model and query classes

based on the GraphQL schema from the MXM endpoint. This proved not very productive in my first exploration a while ago but [one option](#) now looks a bit promising.

- 901101 - Ocean Imaging
- 901502 - Passive Acoustic Sensing
- 901513 - Targeted Sampling by AUVs
- 901602 - Data TAG: Addrss Eng Chng
- 901800 - LRAUV Payload & Support
 - TethysDash/Dash3: New buttons to send command/mission to [alternative address destination](#) (other than the usual SBD Iridium address). This required both backend and frontend changes.
- 902009 - AUV UI
- Overhead
 - Upgraded the vocabulary repository system for the X-DOMES project (hosted at TAMU-CC).
 - Annual Mandatory Hazard Communication Presentation and quiz.
 - Reformatted and added items to [SE IE skill matrix](#).
 - Annual perf evaluation.
- Out of Office
 - Feb 21, Mar 11-12, Apr 9: vacation