

Overhead

Week 52

1. Thom Maughan
 - a. Wago Stack box hunting. Many thanks for the management help.
 - b. Home office inventory

Week 51

1. Duane Edgington
 - a. Home internet outage (regional Monterey DSL) Dec 7 -15
 - b. Home T-Mobile cellular MiFi adapter procured to mitigate outage
2. Jon Erickson
 - a. Learning MATLAB to develop a solution for the Mesopelagic LRAUAV.
3. Kevin Gomes
 - a. Group Lead overhead
 - b. Met with ThreePoint contractor for their presentation on our digital/web strategy moving forward
 - c. Hiring committee
4. Kent Headley
 - a. Preparing for remote access
 - b. Computer maintenance
 - c. Workplace training
 - d. Scoping input for NSF docking proposal
 - e. Review prep
5. Rich Henthorn
 - a. Prep for exclusive Work-From-Home
6. Scott Jensen
 - a. LRAUV Thruster Drive prototype has run the motor in the lab connected to the dynamometer. Efficiency numbers need to be compared to current implementation. It is a sensorless chip and seems to be able to start the motor and keep it spinning. A windmilling test needs to be performed. Discussions are starting about how the final device will interface and mount in the vehicle.
7. Brent Jones
 - a. Meetings
 - b. Prepping for MBARI shutdown
8. Chad Keczy
 - a. Changing Ocean: Writing LV code using Wago testbed & ordering parts for next year
 - b. Bio-Acoustics Lab: Designing Hyd Stab board
9. Eric Martin
 - a. Helping Lonny Lundsten shore up code for M3RS monitoring devices.
10. Thom Maughan
 - a. Met with Rich Schramm regarding XOJO. Hunting for box with Wago stack, must have left it at MBARI as the house has been turned upside down.
 - b. Organizing
11. Mike McCann
 - a. Provided evaluation to their professor of the capstone students
12. Paul McGill
 - a. More OrCAD online training.
13. Craig Okuda

- a. Get stuff from MBARI
- 14. Brent Roman
 - a. Moved more MBARI equipment to my home
- 15. Carlos Rueda
 - a. 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.
- 16. Rich Schramm
 - a. Attend a multitude of virtual meetings.
 - b. Continue review of all old software in various CVS, SVN and Git repositories
 - c. Preparing spreadsheet of systems and subsystems Im responsible for.
 - d. Test all MATLAB rovctd profile plot scripts, document and put in bitbucket
 - e. Update Xojo SerialDataSimulator code, document and put into bitbucket
- 17. Alana Sherman
 - a. Packed up projects to work on from home

Week 50

- 1. Jon Erickson
 - a. Learning MATLAB to develop a solution for the Mesopelagic LRAUAV.
- 2. Kent Headley
 - a. Meeting re Charlie Paull external proposal activity scoping meeting
 - b. Implementing Python GUI as learning project
 - c. Computer maintenance
 - d. Review prep
- 3. Brent Jones
 - a. Meetings
- 4. Chad Keyce
 - a. Changing Ocean: Writing LV code using Wago testbed & ordering parts for next year
 - b. Bio-Acoustics Lab: Designing Hyd Stab board
- 5. Eric Martin
 - a. Attended bi-annual Scientific Ocean Vehicles Alliance (SOVA) meeting, a new committee involving vehicle operators from SOI, WHOI, UH, OET, and NOAA. Topics discussed included recent acceleration of Telepresence, COVID restrictions, interest in VR tools, and growth of the community itself.
- 6. Thom Maughan
 - a. Met with Rich Schramm regarding XOJO. Hunting for box with Wago stack, must have left it at MBARI as the house has been turned upside down.
 - b. Organizing
- 7. Mike McCann
 - a. “Attenginding” OGC meeting this
- 8. Paul McGill
 - a. More OrCAD online training.
 - b. Finished fixed-asset inventory.
 - c. Renewed some software licenses.
- 9. Doug Pargett
 - a. Successfully passed the phishing email test... again.
 - b. “Congratulations on identifying a suspect message and submitting it for evaluation!”
 - c. Spelling error? *identifying*
- 10. Carlos Rueda
 - a. IE mtg.
 - b. [ASA Conference](#)
- 11. Rich Schramm

- a. Attend a multitude of virtual meetings.
 - b. Continue review of all old software in various CVS, SVN and Git repositories
12. Alana Sherman
- a. Reading applications for new PE and Seafloor Processes jobs.

Week 49

1. Duane Edgington
 - a. Participated in “jury” of capstone presentations from University of Victoria ECE399 course projects. Of the 3 competing projects, one was MBARI proposed ROV LiDAR project. Dec 1.
2. Kevin Gomes
 - a. Group lead overhead
3. Kent Headley
 - a. Following Apple ARM and virtualization roadmap
 - b. Purchasing
 - c. Planning for potential site closure (and hoping it won't be necessary)
 - d. Starting prep for reviews
4. Brent Jones
 - a. Meetings
 - b. Continued mentoring of Cal Poly senior class project
5. Thom Maughan
 - a. I have wago stack at my home office and will be offloading some Xojo work from Rich Schramm
6. Mike McCann
 - a. Advising capstone students to look at PDAL for writing point cloud meshes in glTF format
7. Paul McGill
 - a. Had a major laptop computer crash and had to restore from a ten-day old backup, which took a whole day.
 - b. Out Monday for family medical reasons
 - c. Have resumed OrCAD online training classes
8. Tom O'Reilly
 - a. Invited by Christoph Waldmann (MARUM at University of Bremen) to participate in [IEEE OES Standards Committee](#), to help promote use of appropriate standards in the oceanographic community.
9. Doug Pargett
 - a. Solidworks license transfer headaches. Thanks to Hawkridge it's fixed now.
10. Carlos Rueda
 - a. Moved “odss2dash” service from normandy to tethysdash2.
 - b. Some email exchanges, and configuration adjustments are being done upon the shutdown of some machines due to CentOS6 EOL. Nothing critical.
11. Rich Schramm
 - a. Document what-is-what in my CVS, SVN and bitbucket repositories

Week 48

1. Duane Edgington
 - a. Engineering virtual meeting, Nov 24
2. Kevin Gomes
 - a. Working on Group Lead overhead issues
3. Kent Headley
 - a. Misc admin, e.g. end of year purchasing, meetings, office/lab space discussion, review planning
4. Eric Martin
 - a. Archived WF Jira, installed test server.
5. Tom O'Reilly

- a. Invited by Dr Christoph Waldmann, chair of the IEEE Oceanic Engineering Society, to join their standards and best practices committee
- 6. Doug Pargett
 - a. Training
- 7. Alana Sherman
 - a. Attended review for new 4K camera

Week 47

- 1. Kevin Gomes
 - a. Group lead type overhead
 - b. Working on webhook to automate mkdocs generation on docs.mbari.org
 - c. AWS support
- 2. Kent Headley
 - a. Misc admin
 - b. Reading on software licensing
- 3. Scott Jensen
 - a. Got the LRAUV thruster motor spinning using the driver IC being evaluated.
- 4. Brent Jones
 - a. Meetings
 - b. Mentoring Cal Poly students
- 5. Brian Kieft
 - a. Took second covid test and am cleared to return.
- 6. Paul McGill
 - a. Had phone call with entrepreneur who contacted Alana about using seafloor rovers to mine mineral nodules. Also had phone call with MetOcean about our problems with their beacons and possible solutions.
- 7. Tom O'Reilly
 - a. Met with Mark Reichardt of Open Geospatial Consortium and collaborators at Polytechnic University of Catalunya to discuss how to publicize real-world use of OGC PUCK (developed at MBARI) and other OGC standards used by our collaborators. We also discussed new OGC efforts to standardize data formats and "best practices" for aerial drones.
- 8. Doug Pargett
 - a. Setting up new computers, software and moving more files around.
- 9. Carlos Rueda
 - a. 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.
 - b. Attended Scale by the Bay, Thr-Fri past week.
 - c. CentOS6 EOL: All good for declaring a successful transition to tethysdash2. IS notified.

Week 46

- 1. Duane Edgington
 - a. Group meeting Nov 9
 - b. Dept zoom meeting Nov 10
- 2. Kevin Gomes
 - a. AWS billing and management
 - b. SSDS hand holding to get AUV data processing through
 - c. Succession planning
 - d. Budget stuff
 - e. Revisiting docs.mbari.org/mkdocs for succession planning documentation
- 3. Brent Jones

- a. Mentoring CalPoly seniors
 - b. Meetings
- 4. Chad Keczy
 - a. Changing Ocean (Sudek) - Putting together a bench top set for LabView coding.
 - b. Hydrophone Pole Stabilization (Benoit-Bird) - Working on schematic for pcb.
- 5. Thom Maughan
 - a. Was organizing for a trip to Cal Poly for deployment of Pier Peer camera system - this is now delayed by a week or more.
- 6. Mike McCann
 - a. Attending virtually the [Web3D Conference](#) and chairing the demo session at 5 am Thursday
- 7. Doug Pargett
 - a. Engineering meeting
 - b. Setting up new computer, files, and remote desktop software.
- 8. Brian Schlining
 - a. Working with Kakani's group on integrating DeepPIV and stereo camera data into VARS.
- 9. Rich Schramm
 - a. Continue Centos8 conversion. Oasis3 downloads still not right...

Week 45

- 1. Duane Edgington
 - a. Group meeting Nov 2
- 2. Kevin Gomes
 - a. Group Budget
- 3. Scott Jensen
 - a. Getting reacquainted with embedded programming with the development of a lower quiescent power motor drive for the thruster.
 - b. Started roll out of Schematic version control system.
- 4. Chad Keczy
 - a. Changing Ocean: Have ordered some parts and am putting together the Wago stack currently. Will begin some LabView coding
 - b. Hydrophone Stabilization: Working on a new board design
 - c. Training: Did a half day training on OrCad EDM.
- 5. Brian Kieft
 - a. Supporting WET program crab pot recovery proof of concept
- 6. Craig Okuda
 - a. New building meeting with FLAD
- 7. Doug Pargett
 - a. Ordering computer upgrades (thanks)
- 8. Carlos Rueda
 - a. ESIP COR monthly meeting.
 - b. VueConf workshop today Nov 4; conference talks Nov 5-6.

Week 44

- 1. Danelle Cline
 - a. Volunteer for SACNAS virtual conference most of last week. Targeted students interested in ML/AI based on poster presentations for summer internships.
- 2. Duane Edgington
 - a. Engineering department zoom meeting
 - b. Refreshing knowledge of matlab programming
 - c. Reviewing papers for upcoming Underwater Image Analysis workshop IAPR CVAUI

- d. Reviewing papers for ICPRAM 2021
- 3. Kevin Gomes
 - a. Migration of services.mbari.org from CentOS 6 to 8 (moved ESP Portal to esp-portal.mbari.org)
- 4. Rich Henthorn
 - a. Division meeting
 - b. COVID testing drama
- 5. Brent Jones
 - a. Mentoring Cal Poly students doing a senior project using hydrophone data.
- 6. Brian Kieft
 - a. Covid testing
- 7. Mike McCann
 - a. Met with Steve Ruberg from NOAA for STOQS instruction to access Lake Erie LRAUV data
- 8. Carlos Rueda
 - a. 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.
 - b. 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.
- 9. Karen Salamy
 - a. Working up Purchase Orders for software renewals for 2021 year. Hope to have these completed and paid by early next week.
 - b. Continuing to work on Apache Superset Dash.

Week 43

- 1. Duane Edgington
 - a. Group meeting Oct 19.
- 2. Kevin Gomes
 - a. Migration of ODSS servers because IS is retiring CentOS 6 and we have to move to CentOS 8 and spending all my time on this. Progress is VERY slow.
 - b. Working to transition some of Rich's work to me.
 - c. Teleconference with Threespot who is working to construct an RFP for future work to revamp our digital presence (social media, web site, etc.)
 - d. Slide preparation for Board Meeting (project updates)
- 3. Chad Key
 - a. Hydrophone Stabilization (Benoit-Bird): I've started the Capture for the PCB.
 - b. Changing Ocean (Sudek): Made a couple of schematics for the bench top system. Beginning to order parts (pre-spending for 2021)
- 4. Brian Kieft
 - a. Working on sorting out some data from our Lake Erie projects with GLERL.
- 5. Thom Maughan
 - a. Gabe Santos (Cal Poly collaborator) has the Pier Peer rPi camera with tensorflow running and streaming live on youtube. His next step is sleepy pi, then packaging, then deploy at Cal Poly Pier.
- 6. Carlos Rueda
 - a. CentOS6 EOL: [Migration of TethysDash production server](#) pretty much completed and under testing. LRAUV team asked to perform verifications.
- 7. Brian Schlining
 - a. Brian was out on vacation last week

Week 42

1. Duane Edgington
 - a. Group meeting Oct 12
 - b. Reviewed paper for *Fisheries Research*
2. Kevin Gomes
 - a. Working on gaining familiarity with the Ship/ROV data processing
3. Scott Jensen
 - a. Coordinating purchase of MBARI Wire Walker with RBR and Del Mar Oceanographic
 - b. meetings
4. Thom Maughan
 - a. Met with Gabe Santos on the Pier Peer project for counting pinnipeds at the Cal Poly Pier. He has raspberry pi interfaced and streaming video through cell modem. He is working on tensorflow lite for identification. No EE student takers on the solar battery so Gabe is moving ahead with his own design. Also attended Gabe's Cal Poly techfest session.
5. Carlos Rueda
 - a. IE meeting. Software licensing discussion.
 - b. docs.mbari: adjusted TethysDash and TethysL webhooks so they now use HTTPS access.
6. Karen Salamy
 - a. Working to help Duane E. acquire a new quote for Computer Vision Toolbox for his Matlab license in order to use for the Pelagic-Benthic Coupling Project. I have not heard back from my MatLab contact yet but will forward the quote on as soon as it is received.
 - b. Working to build Apache Superset on a CentOS 8 system. Definitely not as simple as with a Debian OS.

Week 41

1. Mark Chaffey
 - a. Brought new (re-cycled) workstation online with excellent assistance from Doug and Jose.
2. Duane Edgington
 - a. Oct 7 Webinar: Intel Real Sense L515 worlds smallest Hi-resolution LiDAR camera. Very cool.
 - b. Oct 2: Group Meeting
 - c. Oct 6: Dept Meeting
3. Kevin Gomes
 - a. Meetings for web site re-do
 - b. Various meetings on security issues, audits, etc.
 - c. Support on AWS on various fronts
4. Rich Henthorn
 - a. Workstation issues - Windows laptop does not mount external drives plugged into USB ports
5. Eric Martin
 - a. Helped briefly with acoustic noise tests on the Moog Hydraulic valves last week.
6. Doug Pargett
 - a. A couple hours of school/education outreach about ocean technology.
7. Carlos Rueda
 - a. Some work toward completing migration of the tethysdash VM due to CentOS 6 EOL.
 - b. ESIP COR meeting. With SemTech lead (JPL), reviewed various github tickets.
8. Karen Salamy
 - a. Building new Apache Superset dash

Week 40

1. Mark Chaffey
 - a. Migrated most work to replacement workstation.

2. Duane Edgington
 - a. From Docker Straight to AWS webinar Sept 30
 - b. Board bullets submitted
 - c. MBARI seminar (NOAA) Set 23
3. Kevin Gomes
 - a. Working with Todd on external security audit
 - b. Attending and preparing for assistance with another run at web site overhaul
 - c. Some AWS attention, quota changes, event bridge modifications, etc.
 - d. Wrapping up 2021 proposal stuff
4. Scott Jensen
 - a. Continued learning the EDM system for Orcad. We have almost all corners explored and the major functions operational. There are however a few details that need to be understood.
5. Brent Jones
 - a. Meetings
6. Chad Kecz
 - a. Helping out Acoustic Ecology lab with noise isolation effort
 - b. Finished review of journal paper
7. Denis Klimov
 - a. Elecia White had found an issue of reversed interrupt lines on the BEDS Bridge Board; figuring out what would be a good way to correct and re-test.
8. Eric Martin
 - a. Handing over design files for valve pack electronics to Chad Kecz and Andy Hamilton
9. Thom Maughan
 - a. Zoom call with a EE student at Cabrillo College for class project
 - b. Relocating home workspace from the dining room to a room vacated by my son who has returned to SLO.
10. Mike McCann
 - a. Moved stoqs.org to a new CentOS 8 VM (actually Joe and Pat did most of the work)
11. Carlos Rueda
 - a. 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.
 - b. XDOMES: provided input for the upcoming Project Outcomes Report to NSF.
12. Alana Sherman
 - a. Attended meeting on the design of the new bldg G.

Week 39

1. Duane Edgington
 - a. Group meeting Sept 21
 - b. Seminar Sept 23
2. Kevin Gomes
 - a. Some IS related work (docker, CentOS versions, system restarts/upgrades)
 - b. More AWS work on alerts and security
 - c. Requested quota increase (granted) on SageMaker related AWS resources
 - d. Working with Rich on transition plans, docs and process/projects
 - e. Group Meeting
3. Kent Headley
 - a. Clean up on allocations
 - b. Misc admin
4. Scott Jensen
 - a. Really getting a handle on the EDM software. About ready to bring in a few people to test setup and get feedback.

5. Brent Jones
 - a. meetings
6. Chad Kecz
 - a. Journal paper review
 - b. Helped Brent J with some battery pack troubleshooting
7. Mike McCann
 - a. Rolled out module updates (fixing a Django insecurity) to our STOQS servers
 - b. With Pat & Joe's help moving WordPress server for stoqs.org to a new CentOS 8 VM
8. Paul McGill
 - a. Designing MARS cable extension with Craig D. for possible project with NPS.
9. Carlos Rueda
 - a. IE: put together a simple Vue/Quasar app that demonstrates user authentication using Firebase. Instructions, screenshots and more details [here](#). App deployed [here](#).
 - b. 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.
 - c. ESIP Semantic Technologies meeting.
10. Karen Salamy
 - a. Re-writing my notes and testing build options for Apache Superset following my 2-day online course last week. The class covered a lot of information and I am trying to distill it down to what is useful.
 - b. Registered and watched the talk by Craig McLean, Acting Chief Scientist at NOAA, entitled: "The future of ocean science and technology." this morning.
11. Brian Schlining
 - a. Continue to work with IS as they roll out upgrades to older linux VMs
 - b. Met with CSIRO to discuss MBARI's ML efforts.
 - c. Published a new docker image for running Polynote notebooks.
<https://github.com/mbari-org/docker-polynote>
12. Rich Schramm
 - a. Begin documenting minirov workflow and getting code into bitbucket.

Week 38

1. Duane Edgington
 - a. Engineering meeting Sept 15
2. Kevin Gomes
 - a. IS Sync meeting
 - b. Worked on converting Apache OpenIDC module conversion from Auth0 to Firebase (just Google accounts actually)
3. Scott Jensen
 - a. Working with Orcad vault system, EDM, to figure out how it works and how EE's may best implement its use.
4. Brent Jones
 - a. meetings
5. Chad Kecz
 - a. Reviewing a journal paper
 - b. Helping Sebastian with his 2021 work (pre-spending parts selection)
6. Brian Kieft
 - a. Covid tests, proposal work for BIOSWAT, etc.
7. Mike McCann
 - a. Meeting with Capstone students who will be working on [this Issue](#)
 - b. Attending virtual OceanSITES meetings early in the morning this week
8. Craig Okuda
 - a. Restart wireless system after ups replacement

9. Carlos Rueda
 - a. Final report of the EarthCube X-DOMES project has been submitted to NSF.
 - b. IE meeting (user authentication/authorization discussion; firebase-based demo)
10. Karen Salamy
 - a. Finished a 2-day on-line course (M & T) on Apache Superset. Lots of data to digest but the class was extremely helpful and should help me best assess whether this application will work with the new LRAUV Engineering Dashboard.
11. Brian Schlining
 - a. Working with Pat/IS on [migrating older docker installations](#) on linux VMs to docker-ce.
 - b. Meet with <https://innotescus.io>. They are developing an on-line annotation platform and are seeking guidance on improving the tool for scientific applications. They have requested samples of our video/images in order to set up a demo for MBARI.
 - c. Meeting with CSIRO today to discuss integrations of their ML work into VARS and FathomNet
12. Rich Schramm
 - a. Fix broken auto-generated rovcld QC plots

Week 37

1. Duane Edgington
 - a. Sept 9 seminar NOAA: Sunburst Sensors: Oceanographic Instrumentation from Montana to Mauritius
 - b. Sept MBARI biweekly seminar
 - c. Sept 10 group meeting
2. Kevin Gomes
 - a. Working on authentication research to try and close in on decision
 - b. Some proposal/budget work
 - c. Other overhead
3. Kent Headley
 - a. misc admin, proposal process (wrapping up phase 2 resource balancing)
 - b. Helped Brett H with MB-System; set up test server to work out the technical issues, may help set up more permanent installation
4. Brian Kieft
 - a. Pre interview with Madison on STEM project
5. Thom Maughan
 - a. John Daly, Patrick Winston
6. Craig Okuda
 - a. Mt Toro trip to replace failed UPS
7. Karen Salamy
 - a. Teresa was encountering various issues propagating the Precruise to the EXPD. I spent some time on it and was able to it operational again last Friday.
 - b. I received an email from Lonny L. today stating that he is having issues adding Dives to the EXPD. I will look into that soon.
 - c. Currently installing MBSysystem onto the new data server coredat8 for Rich.
 - d. At Rich S.'s request, I added the R/V Kilo Moana to the Postcruise Web Form. Dives on ships of opportunity involve miniROV dives and their data.
 - e. Mike M. and Joe G. are currently working on a new EXPD that will run Strawberry Perl. I have been asked to test the Precruise Web Form on the new cloned test server. While I have not had much time to spend on it yet, I noticed that the Postcruise displays quite well while there are major issues in the display of the Precruise web form. I will look into to this after I determine what is wrong with the current Precruise Add Dives for Lonny (issue #2 above).
8. Brian Schlining
 - a. Working with Pat to sort out issues with Docker that occurred during the most recent IS patch updates to the Linux systems/

9. Rich Schramm
 - a. Continue Centos transition work on coredata8- currently minirov processing script issues with Karen and mbsystem etc
 - b. Chasing problems with atlas mounts and permissions on coredata

Week 36

1. Kevin Gomes
 - a. Phase 2 Resource Leveling and Review
 - b. Helping Jenny with a request for some data extractions from Samples DB for the rock samples that went to the Smithsonian.
 - c. Weekly sync meeting with Todd R.
 - d. Restarting services due to IS restart of Dione and server patching.
2. Brent Jones
 - a. meeting
3. Thom Maughan
 - a. Moving to new lab in building g, recovery from fire evac and rapid packing. Thanks to Josh for the help with airflow and Brett for making room.
4. Mike McCann
 - a. Working with Pat to get git working w/ ssdsadmin's ssh keys on an atlas home directory share
5. Carlos Rueda
 - a. Daphne watchstanding shift.
 - b. Monthly ESIP COR meeting.
 - c. Starting to review a significant contribution ([PR](#)) to my *tscfg* tool.
6. Karen Salamy
 - a. I have been asked to add the ability to search on the R/V Kilo Moana for miniROV dives from the MBARI Postcruise web form and will do this as soon as I complete the incorporation of telepresence in the Precruise web form.
 - b. I will also need to test the Precruise web form functionality following a IIS server upgrade by Mike M. and IS this week. Teresa C. has been having some issues with Precruises propagating to the EXPD. This may be related to these upgrades but I need to dig deeper.
7. Brian Schlining
 - a. One of my laptops had a hard disk issue. I had to wipe the disk and reinstall the OS
 - b. Working with IS to resolve issues introduced by the latest round of server patches.
8. Rich Schramm
 - a. Continue testing Centos8 conversion
9. Alana Sherman
 - a. Still refining allocations for 2021, this was a hard year to balance labor requests but we are almost there.

Week 35

1. Duane Edgington
 - a. Ken Johnson seminar, engineering telecom, group meeting
2. Kevin Gomes
 - a. Working on many things for AWS to ensure we are doing things in the most secure way.
3. Scott Jensen
 - a. PCB training is coming along and I think my first board is ready for fabrication.
4. Brent Jones
 - a. Meetings
5. Denis Klimov
 - a. Inventorying parts for BEDS instruments

6. Thom Maughan
 - a. Moved most of the MBARI equipment to MBARI on Friday, evacuated with the remainder.
 - b. Affected by Carmel and River Fires, evacuated and now returned. Much better now.
7. Carlos Rueda
 - a. IE and Eng meetings
 - b. ESIP: minor COR maintenance; discussion with collaborator.
8. Karen Salamy
 - a. Attended online group meetings, Engineering Meeting, etc.
9. Brian Schlining
 - a. Involved in telepresence discussions. Met with Paull's group to discuss using VARS as part of telepresence.
 - b. [Attended eDSBS meeting](#)
10. Rich Schramm
 - a. Deal with lots of little stuff from being on vacation.
 - b. Tested changes made by IS to coredatab as part of CENTOS8 upgrade

Week 34

1. Duane Edgington
 - a. Group meeting
 - b. Weekly NOAA AI initiative Workshop teleconference Thursdays.
 - c. Lunchtime reading AWS: IAM and VPN and EC2.
2. Kevin Gomes
 - a. Still working on AWS breach issue (fiscal and security)
 - b. Working on implementing recommendations from AWS for breach prevention in the future
3. Kent Headley
 - a. Misc admin and meetings
4. Brent Jones
 - a. Intern mentoring
 - b. meetings
5. Denis Klimov
 - a. Elecia White is having some progress with the code. This week, inventorying available BEDS instruments.
6. Thom Maughan
 - a. Working with Kent, Doug and Norm to get a lab space, a reasonable candidate
 - b. Met with Gabe to talk lessons learned on Techfest. Gabe created a survey monkey to send to the interns. Gabe did a fantastic job running techfest this summer.
 - c. Bridget Benson delivered healthy baby Margot on Aug. 5. We are in email contact on student projects this week.
 - d. Fires have had an impact, did not go into MBARI as planned to drop off equipment. As of the 19th, Carmel (Cachagua) fire is 3 miles from our house. Smoke is a challenge.
7. Mike McCann
 - a. Beginning to work with Joe in testing Expd on strawbexpd with ActiveState Perl
8. Craig Okuda
 - a. Troubleshoot Mt Toro comms problem
9. Mike Risi
 - a. Misc. phase 2 meetings and feedback
10. Brent Roman
 - a. Repaired my fanless desktop computer by replacing no-name PSU with one from Meanwell
11. Carlos Rueda
 - a. Provided input for NSF annual report related to the X-DOMES project.
 - b. ESIP: As suspected, diagnosed and reported issue with pyLODE tool.

- c. Created ORR [release](#) and updated the instances under our control (ESIP, X-DOMES, MMI).
 - d. 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.
12. Alana Sherman
- a. Trying to sort out staffing issues for 2021 projects, have been contact EEs to work through hours individually

Week 33

- 1. Duane Edgington
 - a. Group meeting, department meeting. Intern presentations.
- 2. Kevin Gomes
 - a. Had an unauthorized access (and use by bitcoin miners) of our AWS infrastructure. Working with AWS to clean up and implement policies and procedures to lessen the chance of it happening again.
 - b. More work on weekly reports setting up list server to use to distribute reports.
 - c. Some overhead both in AWS and Slack for closing up items for interns
 - d. Working to move an effort along to finally choose an authentication provider
 - e. Reviewing IEEE paper: "Decomposition of Monolithic Applications into Context-Aware Systems: A Systematic Mapping Study"
 - f. A little more proposal related overhead (hours scenarios)
- 3. Kent Headley
 - a. Proposals
 - b. Misc admin
- 4. Rich Henthorn
 - a. Phase 1 resource balancing
 - b. Meeting
- 5. Scott Jensen
 - a. Used training from earlier this year to layout a PCB using PCB editor. Our resident expert says a few more boards and I might be proficient:)
- 6. Brent Jones
 - a. Mentoring intern
 - b. meetings
- 7. Denis Klimov
 - a. Tested BEDS Bridge Board using Nucleo development board; it provided a response so the board is back to Elecia White for code debugging.
- 8. Thom Maughan
 - a. Intern Techfest / Intern. Attending Intern symposium. Lessons learned with Gabe on remote techfest.
 - b. Discussions with management over the Bunkhouse rental, etc.
- 9. Mike McCann
 - a. Requested a Windows VM (strawbexpd) to test the Expd web app with Strawberry Perl
 - b. Attended via Zoom the SIGGRAPH Pioneers reception talk by Douglas Trumbull
- 10. Craig Okuda
 - a. Test LRAUV antennas
- 11. Doug Pargett
 - a. Zoom Meeting
- 12. Carlos Rueda
 - a. Attended a couple of the intern presentations.
 - b. ESIP: Discussions related to an issue to display some ontologies with the pyLODE tool (most likely not an issue in the COR repository itself).
- 13. Karen Salamy

- a. Training for Apache Superset: Registered for online class (now set for September 14-15 @ 9AM EST). Filling out survey request for noblepro training group today.
 - b. Added to Seafloor Mapping project working with Jenny P. and Mike M.
 - c. Completed a phishing test for IS....
14. Brian Schlining
- a. Watching the virtual intern talks.

Week 32

- 1. Kevin Gomes
 - a. Proposal review and resource balancing
- 2. Carlos Rueda
 - a. As planned, [tethysim has been shut down](#). (All TethysDash stuff moved from there has been working OK on tethystest for several weeks already.)
 - b. Leveling off time allocation to provide feedback for ongoing phase proposal reviews. Thanks Danelle, Brett, John, Ben for your replies.

Week 31

- 1. Duane Edgington
 - a. Returned to "Learn Docker in a month of lunches" book over noon hour.
- 2. Kevin Gomes
 - a. All proposal, all the time
- 3. Rich Henthorn
 - a. Meetings and such
- 4. Brent Jones
 - a. Mentoring intern
- 5. Mike McCann
 - a. ESIP Federation summer meeting
 - b. Helped with some project labor resource leveling
- 6. Paul McGill
 - a. Working on OrCAD online training.
- 7. Carlos Rueda
 - a. ESIP Summer meeting

Week 30

- 1. Denis Klimov
 - a. Four BEDS Bridge Boards had being debugged and transferred to external contractor for software development.
- 2. Mike McCann
 - a. Fix problem with ROT Axis not appearing for BEDs visualization in stoqs_cce2015 database
 - b. Attending (remotely) ESIP Federation summer meeting
- 3. Carlos Rueda
 - a. Satisfactory use of tethystest for all things TethsyDash previously done on tethysim (which as planned will be shutdown on July 30 -- reminder email sent to all people with accounts there).
- 4. Karen Salamy
 - a. Registered for Apache Superset online course on NoblePro.org
 - b. Took tutorials on various dashboard builds.
- 5. Alana Sherman
 - a. Reading proposals

Week 29

1. Kevin Gomes
 - a. Budgets and proposals
2. Kent Headley
 - a. Proposal scoping, updating labor spreadsheet
 - b. Proposal and engineering meetings
3. Rich Henthorn
 - a. Proposal input
 - b. Division meeting
4. Mike McCann
 - a. ESIP Federation Summer Meeting
5. Carlos Rueda
 - a. Feedback to various project proposals (phase 1).
 - b. 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](#).
 - c. ESIP COR: helped troubleshoot unexpected issues with the amazon instance (solved by now and apparently due to lack of enough CPU power).
6. Rich Schramm
 - a. Proposal cycle input
7. Alana Sherman
 - a. Worked on proposal for TAUV

Week 28

1. Francois Cazenave
 - a. Helping Kelly BB with proposal preparation
2. Kevin Gomes
 - a. Assisting with Telepresence proposal scoping/writing
 - b. Assisting with other proposals
 - c. Group Budget fun
 - d. Management overhead
 - e. Sat in on NOAA STEM Proposal discussion
3. Kent Headley
 - a. Attending Embedded Linux Conference (virtually)
 - b. Working on proposals and budget
4. Brent Jones
 - a. Meetings
 - b. Intern
 - c. Taught the interns how to stand watch for LRAUV's
5. Denis Klimov
 - a. Designing BEDS bridge board test jig
6. Thom Maughan
 - a. Setup for techfest on the road.
 - b. Thanks to help from Cindy, all techfest charges are coded (whew).
7. Brent Roman
 - a. Attending (virtual) Embedded Linux conference
8. Carlos Rueda
 - a. CentOS6 EOL: Advancing migration of [TethysDash stuff from tethyssim to tethystest](#), with the goal of shutting down tethyssim after that.
 - b. Some input to Data TAG abstract feedback.
 - c. ESIP: Got complimentary speaker registration for the Summer meeting (July 14-24)

- d. ESIP COR monthly telecon.
 - e. Attended part of Tom's design review re his work on new GUIs for MB-System.
 - f. Attended ACM TechTalk: "Apache Arrow and the Future of Data Frames"
 - g. Attended two of the [Quasar.Conf](#) online conference presentations.
9. Karen Salamy
- a. Reviewed some online tutorials for Dashboards.
 - b. Worked on 2021 Budget Requests and Estimates
10. Brian Schlining
- a. Providing proposal input
 - b. Providing feedback for 2020 telepresence work.
 - c. Working on telepresence support for annotations for the mini-ROV for an upcoming dive.
 - d. Working through courses on CQRS from [lightbend academy](#)

Week 26

- 1. Kevin Gomes
 - a. Review panel
 - b. Starting on budget stuff
- 2. Kent Headley
 - a. Misc admin
- 3. Scott Jensen
 - a. Figuring a way within Orcad and its Variant mode how to capture configuration jumpers settings.
- 4. Brian Kieft
 - a. Meetings for work on UX and ROS proposals
- 5. Thom Maughan
 - a. Working with Gabe and Tatjana to get Techfest board and parts ordering complete.
- 6. Carlos Rueda
 - a. 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.
 - b. ESIP Semantic Tech meeting. Did a fix to issue involving resolution of SWEET ontology terms.
- 7. Karen Salamy
 - a. Spent a bit of time catching up on older emails.
 - b. Worked on the Docker build I have been building at home.
- 8. Brian Schlining
 - a. Working with CSIRO to package VARS UI Apps with Oracle drivers. Oracle drivers do not play well with [jlink](#).
 - b. Virtual meeting with interns
- 9. Rich Schramm
 - a. Writing documentation for the Pilots Diverlog application and database.

Week 25

- 1. Duane Edgington
 - a. Group meeting June 15. Engineering meeting June 16.
- 2. Kevin Gomes
 - a. Abstract and budgets
 - b. Starting to think about proposals (I have two)
 - c. More AWS help for Nate Truelove and Francisco
- 3. Kent Headley
 - a. Misc admin, meetings, input re reorg
- 4. Brent Jones

- a. Meetings
 - b. Intern
- 5. Thom Maughan
 - a. David Lees NASA Telepresence seminar
- 6. Mike McCann
 - a. Internal calendar Zimbra merge fixes to deal with changes during the shutdown
- 7. Carlos Rueda
 - a. IE mtg
- 8. Rich Schramm
 - a. Finished up documentation on dataprobe, everything checked in on Bitbucket
 - b. Continue work on pilots DiveLog documentation
- 9. Alana Sherman
 - a. Abstract presentations and lots of meetings....

Week 24

- 1. Kevin Gomes
 - a. Working with IS and Atlassian, was able to finally transfer the license from auth.mbari.org to oceana.mbari.org so I am not running our Crowd instance on a temporary license and we can now shutdown auth.mbari.org ... yay!
- 2. Brent Jones
 - a. Meetings
 - b. Interfacing with intern so she can begin her project
 - c. Continuing ed
- 3. Eric Martin
 - a. Abstract presentation for telepresence
 - b. TAG review of abstracts
- 4. Thom Maughan
 - a. Abstract presentation for Underwater Solar Power system
 - b. Abstract presentation for Next Generation Vehicle Initiative
 - c. Abstract presentation for Planktivore
 - d. Phone call with Dr. Tom Krupenkin to discuss reverse electrowetting on dielectric energy harvesting. Removed from work plan for Underwater Solar Power system
- 5. Rob McEwen
 - a. Investigating Cigna/Medicare decision necessary at age 65.
- 6. Craig Okuda
 - a. Misc
- 7. Brian Schlining
 - a. Fixed an issue with HURLS knowledgebase

Week 23

- 1. Danelle Cline
 - a. Updated [miniomlflow](#) stack. Pretty useful for those interested in experimenting with buckets and using MLFlow for managing machine learning models.
- 2. Duane Edgington
 - a. RedHat Developer DevNation presentations on [Kubernetes](#) Mon / Weds AM.
 - b. TechStrong Con Virtual Summit Thursday June 4. 6AM PDT.
- 3. Kevin Gomes
 - a. Abstract review
 - b. Working on quick slides to present to SOI as an overview of MBARI data management practices to begin a conversation.

4. Kent Headley
 - a. Reopening planning
 - b. 2021 Planning
5. Rich Henthorn
 - a. Training
6. Scott Jensen
 - a. Looking into solidworks training in July during my post-travel quarantine.
7. Brent Jones
 - a. Wire walker proposal, meetings, continuing ed, prepping for intern
8. Denis Klimov
 - a. BEDs Bridge Board is ordered; ordering parts for board assembly
9. Eric Martin
 - a. Western Flyer telepresence tests were extremely successful. Wrote a report and submitted to MT for review. Also wrote an abstract to continue this work in 2021.
10. Thom Maughan
 - a. Bridget Benson has been working at the Bunkhouse office. She is wrapping next week. Great having her at MBARI, thanks Chad! Will collaborate starting next January on student projects at the Cal Poly pier.
 - b. Proposals: Planktivore, Underwater Solar, Disruptive tech
 - c. Prep and planning for intern TechFest. George approved hardware budget. Contacted Gabe Santos (intern from last year) and have enlisted him to help, would like to pay him.
11. Paul McGill
 - a. Helping Yanwu to make improvements to DSP code for decimation of hydrophone data.
 - b. Dealt with dead AC power circuit that shut down computer Deepdark.
12. Mike Risi
 - a. Installed Ubuntu 20.04 on development computer
13. Carlos Rueda
 - a. 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.
 - b. 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.
14. Karen Salamy
 - a. Encountered a Docker upgrade issue (continually kept crashing on my Mac pro). Thankfully, Docker deployed a newer upgrade and that version worked. Spent far too much time trying to determine the issue before that though.

Week 22

1. Kevin Gomes
 - a. Spending a lot of time learning podman and system services. Podman is RedHat/CentOS's version of Docker.
2. Brent Jones
 - a. Meetings and continuing education online
 - b. Wire walker proposal for 2021
3. Denis Klimov
 - a. BEDS Bridge Board - quoting
4. Eric Martin
 - a. Telepresence scoping complete with letter transmitted to the MT. We are talking to Mike Kelley regarding a possible test and necessary resources.

5. Mike McCann
 - a. Provided milestones, time estimates, and edits for MB-Mapping proposal
 - b. Provided details on BEDs data visualization for Roberto's paper
6. Carlos Rueda
 - a. As announced a couple weeks back, old okeanids will be shut down this Friday.
7. Rich Schramm
 - a. Working on Dataprobe developers documentation
 - b. Refactoring Dataprobe application to make more supportable as I discover wonky parts while writing documentation.

Week 21

1. Danelle Cline
 - a. Vue/Prisma bootcamp. About 80% complete with this online training class.
2. Duane Edgington
 - a. Engineering, group, teleconferences.
3. Kevin Gomes
 - a. Overhauling the weekly report generation scripts to fix bugs and structure so it's easier to make individual and group reports (coming soon)
 - b. Spending time cleaning up our AWS account (EC2, S3, IAM, CloudFormation). Will work on Security Groups and IAM roles next.
 - c. Digging into ECS which is AWS's container service
4. Rich Henthorn
 - a. Visited MBARI for hardware
 - b. Training
5. Brent Jones
 - a. Meetings
 - b. Continuing ed
 - c. abstracts
6. Eric Martin
 - a. Finished telepresence scoping effort, which ended with high likelihood that we can make this happen pretty quickly. Initial feedback is positive. We've decided to take advantage of the initial effort and writing to field a new project proposal for 2021 to continue and support the effort. The window is closing for any further tests before shipyard, and we may need a solution for August as soon as the boat returns. To this end we're requesting for a test next week if we can be allowed to be on the boat.
7. Thom Maughan
 - a. Abstracts
 - i. Planktivore project
 - ii. Underwater Solar Harvesting Battery
 - iii. Disruptive tech idea
8. Mike McCann
 - a. Examined issue of Expd's nav-data.asp query not returning all records
9. Carlos Rueda
 - a. Some more input to the [server inventory document](#).
 - b. AWS discussion; IE meeting; Eng meeting.
 - c. 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](#)).
10. Karen Salamy
 - a. Spent time this week working on a nav-data web display issue. Large nav-data record sets (>40,000/dive) seem to hit a limit in SQL server data sharing limitations. I am working with Rich and

Mike to try and pin-point the cause. This issue tends to only affect long dive deployments (wfly multi-week expeditions, etc.,) where the vehicle is in the water for extended periods of time.

- b. Ran into a docker “new-install” issue with some of my builds. Looking into it.
- c. Have to take my daughter to the doctor Wed (today) and tomorrow following an accident earlier last week.

Week 20

1. Danelle Cline
 - a. AWS Online US/Canada Summit tutorials and keynotes
2. Duane Edgington
 - a. Weekly Engineering teleconference
 - b. Weekly group meeting
3. Jon Erickson
 - a. Finished the drawing check for MARS-DACR.
4. Kevin Gomes
 - a. Some small level of AWS support for Francisco’s interns
 - b. Created a detailed list of all SE IE related IS supported servers for planning and migration purposes.
 - c. Working on migration to CentOS 8 for several machines
5. Kent Headley
 - a. Misc admin
6. Rich Henthorn
 - a. Training
 - b. Reviewing back-to-work docs
7. Brent Jones
 - a. Looking at putting plantivore on NPS gliders
 - b. Meetings
 - c. Cont ed
8. Denis Klimov
 - a. Creating individual work plan for a period of re-opening
 - b. Quoting BEDS Bridge Board
9. Eric Martin
 - a. ORCAD PCB Training
 - b. Return to work plan
 - c. Telepresence scoping and abstract
 - i. Lots of calls with industry leaders and engineers
 1. URI Innerspace Center
 2. SOI satellite team
 3. Isotropic Networks
 4. NASA Ames Telerobotic
 5. MBARI IS
 6. A few other private contractors.
 - ii. Finalizing a concept proposal with cost estimates.
10. Thom Maughan
 - a. Meeting with Bridget, Chad, Gabe Santos to discuss Cal Poly pier project, working a transition plan after Gabe is done with school next winter quarter. Bridget will have CPE senior project students Winter/Spring.
11. Mike McCann
 - a. Configuring applications on new laptop
12. Paul McGill
 - a. Reviewed some of Yanwu’s on data decimation filters for the hydrophone data.
13. Tom O’Reilly

- a. Presented invited lecture to Hartnell College Oceanography class:
"Robotic technology for persistent presence: under, on and above the ocean"
- 14. Carlos Rueda
 - a. IE & Eng meetings
 - b. Some input to the [server inventory document](#).
 - c. 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.
- 15. Karen Salamy
 - a. RT Dashboard work
 - b. Working with Rich S. to determine an issue with the EXPDB data format. Hope to figure this out this week.
- 16. Rich Schramm
 - a. Working my way thru porting nightly programs and scripts with IS for migration from CentOS-6 (end-of-life) to CentOS-8

Week 19

- 1. Danelle Cline
 - a. Discussions with Cal Poly collaborators about AI Data Sharing NSF Convergence Accelerator proposal.
- 2. Duane Edgington
 - a. Group meeting.
 - b. NVIDIA webcasts.
- 3. Kevin Gomes
 - a. Helping Francisco, Nate and Thom get an AWS server configured for their virtual interns
 - b. Several online courses for AWS related material
 - c. Authentication work (with the help of Joe in IS) to test out the differences in Auth0 vs. AWS Cognito for managing web application authentication.
 - d. Several different video conferences
- 4. Kent Headley
 - a. Misc admin, meetings
 - b. LRAUV backseat driver architecture discussions
- 5. Rich Henthorn
 - a. Training
- 6. Scott Jensen
 - a. Worked on back to work plan
 - b. Completed PCB training
- 7. Brent Jones
 - a. Continuing education online. Engineering meetings.
- 8. Denis Klimov
 - a. BEDS bridge board is ready to be ordered; figuring out where to send and what other parts are needed
- 9. Eric Martin
 - a. Orcad training
 - b. Ricketts Jira Upgrade
 - c. Telepresence scoping, carrying on a lot of calls with experienced groups
- 10. Thom Maughan
 - a. Comcast internet has been down at my house for over a week (failed cable modem). Ordered a replacement - delayed. In hot water with the family
 - b. Bunkhouse research institute has been setup and comcast is working there. No MBARI hours or money charged for setup of Bunkhouse.
- 11. Mike McCann
 - a. Starting to migrate Time Machine backup files to new laptop
- 12. Craig Okuda

- a. Orcad maintenance
- 13. Carlos Rueda
 - a. CentOS6 EOL:
 - i. 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.
 - ii. 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.
 - iii. tethysdash: doing one more revision toward plan for coordination and cutover actions.
 - b. IE mtg
 - c. tscfg: Responded to [issue](#) report and discovered and reported an [issue](#) in Lightbend Config.
 - d. (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).
- 14. Brian Schlining
 - a. Continuing discussion with CSIRO on adapting localization tools for their M3/VARS system
 - b. Continuing providing technical guidance to HURL on replacing VARS server.
 - c. I grabbed my monitor and office chair from MBARI and am set up for `the duration` to work at home.
 - d. CSUMB Capstone students are winding down their project. They gave their last demo last week. They are now working on their presentations.
- 15. Rich Schramm
 - a. Got set up on linked-in training site an
 - b. started initial AWS training videos
 - c. Working w/IS to transition of end-of-life Coredata machine CentOS v6 to CentOS v8. LOTS of issues, existing code (circa) for node.js was cbeta vsn 0.xx, current is vsn 10.x so a lot has changed
 - d. Trying to 'document as I go' setup on coredata centos-8 with Joe Gomez and Pat Allen
- 16. Alana Sherman
 - a. Discussed reopening plans with all group members either over email or video conference
 - b. Supervisor meetings

Week 18

- 1. Duane Edgington
 - a. Weekly engineering meeting April 28.
 - b. Kevin group meeting May 1.
- 2. Kevin Gomes
 - a. Lot of time in AWS stuff, working with IS and Danelle to look at ways to connect MBARI AD to Auth0/AWS
- 3. Rich Henthorn
 - a. RDE meeting
 - b. MBARI reopening input
 - c. Training
- 4. Scott Jensen
 - a. Orcad PCB training
- 5. Denis Klimov
 - a. BEDS Bridge Board is ready to be ordered.
- 6. Eric Martin
 - a. Orcad Training here and there.
- 7. Thom Maughan
 - a. Comcast internet went down at my house - thanks to verizon for cell phone tethering.
 - b. Comcast at new office is installing Thursday.
- 8. Mike McCann
 - a. Working with Jenny on a mapping database task in the Ocean Imaging project

- b. Struggling with using 10-year old laptop, new laptop should arrive next week
- 9. Paul McGill
 - a. Training: Got online accounts and software set up for OrCAD training.
- 10. Craig Okuda
 - a. Misc overhead
 - b. Misc email follow up
- 11. Mike Risi
 - a. Input for return to work and MBARI access priority
- 12. Carlos Rueda
 - a. Engineering zoom mtg.
 - b. (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).
 - c. ESIP Semantic Technologies mtg.
 - d. Assistance to a collaborator with some adjustments to the ORR semantic portal toward enabling [pyLODE](#) as one ontology viewer.
- 13. Karen Salamy
 - a. Special Leave - Working about half time with child care and home schooling. I will be available several hours a day (although those hours may vary depending on school assignments and needs).
 - b. Running some docker build tests.
 - c. Sorting through various on-line tutorials.
- 14. Brian Schlining
 - a. Working through tutorials on [ZIO](#)
- 15. Rich Schramm
 - a. Planning w/M.Risi re future of work on LCM datamanager replacement work
 - b. Multiple zoom/slack meetings
- 16. Alana Sherman
 - a. Working on MBARI reopening issues, group lead zooms, etc.

Week 17

- 1. Danelle Cline
 - a. Correspondence with Cal Poly about NSF Convergence Accelerators - AI-Driven Innovation opportunity.
- 2. Duane Edgington
 - a. Engineering weekly zoom status meeting
 - b. Email to Doug Au regarding PUCK use in community
- 3. Jon Erickson
 - a. Finished the MARS DACR print check. Talking to Craig D. today to review the prints.
- 4. Kevin Gomes
 - a. Reworking weekly report scripting to fix bug and change functionality
 - b. Taking course on Machine Learning for Managers
 - c. Helping folks with AWS tasks
 - d. Various overhead meetings
- 5. Rich Henthorn
 - a. Training
- 6. Scott Jensen
 - a. Started Orcad PCB Editor training
- 7. Brent Jones
 - a. Engineering mtg. Continuing education on ML

8. Brian Kieft
 - a. Various engineering meetings and action item response
 - b. Pulled some images for the annual report
9. Denis Klimov
 - a. While reviewing gerber files for BEDS Bridge Board, schematic mistake was found. Jose Rosal corrected schematic and generated fab package. The board is ready for quoting.
10. Eric Martin
 - a. Started PCB editor training on Orcad
11. Thom Maughan
 - a. Learning LTSpice.
 - b. Learning AWS Amazon
 - c. Provided email to Kent on open source projects
12. Mike McCann
 - a. Figuring out what dongles I'll need for the new MacBook Pro when it arrives
13. Craig Okuda
 - a. Configure PCB libraries etc
14. Doug Pargett
 - a. I finished up running simulations of Gene's pressure chamber, hopefully he's happy with it.
15. Ben Raanan
 - a. Special leave
 - b. Coursera: Linear Algebra
16. Mike Risi
 - a. Misc. input for department budget projection and return to work planning.
17. Carlos Rueda
 - a. 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](#)).
 - b. IE & Engineering meetings.
 - c. Provided some input to Earthcube's office coordinator re description of the X-DOMES project (they are working on an updated website).
18. Karen Salamy
 - a. Helped Mike M. migrate the auv_ctd CVS project to bitbucket
 - b. Worked on building ELKG data dashboards.

Week 16

1. Kevin Gomes
 - a. Lots of planning and organization. Doing some things that I've wanted to get cleaned up for some time now.
 - b. Battling some strange computer issues and think I have them resolved
2. Kent Headley
 - a. meetings
3. Rich Henthorn
 - a. Training
4. Chad Kecz
 - a. Writing some practive LabView VI's (Producer/Consumer loops)
5. Denis Klimov
 - a. Several changes to the schematic of BEDS bridge board as a result of layout review
6. Eric Martin
 - a. Orcad training
7. Mike McCann

- a. My laptop decided to start randomly rebooting, so I asked Norm's permission to get my backup laptop (a 2011 MacBook Pro) and now I'm busy installing my development tools on it
- 8. Rob McEwen
 - a. Learning GIT
 - b. Setting up home office
- 9. Paul McGill
 - a. Training - Got OrCAD 17.2 loaded onto my virtual Win10 machine to take online course
- 10. Craig Okuda
 - a. ORcad 17.4 upgrade and resolve install issues
 - b. Resolve PCB editor 17.4 install problems
- 11. Ben Raanan
 - a. GTC training
- 12. Carlos Rueda
 - a. CentOS 6 EOL: *oceanids* 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).
 - b. SE IE and Engineering meetings.
- 13. Karen Salamy
 - a. Rebuilt VirtualBox and Vagrant development environment on new Mac with Catalina OS. I have begun testing Docker containers for Elasticsearch (E), Logstash (L), Kibana (K) and Grafana (G), as well as Superset (Adobe). This week I will be using pluralsight examples on building RT dashboards with these containers.
- 14. Brian Schlining
 - a. Met with Diana LaScala-Gruenewald (New CenCOOS hire) to discuss exporting annotations to OBIS.
 - b. Studying up on functional [IO effects](#)
- 15. Alana Sherman
 - a. zoom meetings and telecon with my LabView guru.

Week 15

- 1. Duane Edgington
 - a. Group meeting on SLACK, Engineering Zoom weekly info meeting.
- 2. Jon Erickson
 - a. Reviewing Craig D. work on the Mars power can (design check, and FEA on the endcap)
 - b. I'm actually getting some work done on that pressure case design tutorial!
- 3. Kevin Gomes
 - a. Helping IS with troubleshooting NFS/Atlas issues that were affecting pismo greatly. Managing fallout from that from a data processing perspective (seemed to affect my home directory the most for some reason).
- 4. Rich Henthorn
 - a. Training
- 5. Brent Jones
 - a. Continued online learning for ML
- 6. Brian Kieft
 - a. Weekly meetings
- 7. Mike McCann
 - a. Group & dept. meetings
- 8. Doug Pargett
 - a. A bit of LinkedIn training while it was raining.
- 9. Carlos Rueda

- a. CentOS6 EOL: Advancing 'oceanids' ([notes](#)) and 'tethysdash' ([notes](#)) migrations.
Thanks Pat, Joe, Adriana for your assistance.
As part of this:
 - i. New TethysDash [docker image](#) released and being used on tethysdash2 (accessible via oceanids2, e.g., <https://oceanids2.mbari.org/dash3/>).
 - ii. Now proxying tethyscode directly to expose LRAUV mission XML schemas: <http://oceanids2.mbari.org/tethys/XML/>
 - b. SE IE and Engineering meetings.
 - c. 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.)
10. Karen Salamy
- a. Spent time catching up on emails following vacation entire week before.
 - b. Watched several pluralsight videos using various technologies to build real time data dashboards.
11. Brian Schlining
- a. Continue working with CSUMB capstone students on a dive/annotation/video/images data portal to quickly allow video lab staff to quickly view information about an ROV dive. They presented their work to the video lab on Wed.
12. Alana Sherman
- a. Department and group zoom meetings

Week 14

1. Danelle Cline
 - a. Engineering meeting
2. Duane Edgington
 - a. Group meeting over Slack.
 - b. Engineering meeting. Thanks for making Zoom recording available.
 - c. Upgraded home workstation environment to enable better ergonomics and productivity.
3. Jon Erickson
 - a. I'm only getting in about six hours a day. Can't seem to do more than that. So all the balance goes to this.
4. Kevin Gomes
 - a. Design discussions with group
 - b. Started Udacity course on AI/ML for managers
5. Brent Jones
 - a. Taking online classes on machine learning
6. Denis Klimov
 - a. Reviewing Gerber Files for BEDS Bridge Board (with Jose Rosal) so the board could be ordered once it is clear the shipment could be received.
7. Eric Martin
 - a. Attending select lectures at GTC. Attended a day long class in C/C++ accelerated computing with CUDA. Surprisingly I learned a great deal!
8. Mike McCann
 - a. Wrote a test framework for Jenny's MB-Mapping Django project
9. Paul McGill
 - a. Engineering Zoom meeting.
10. Craig Okuda
 - a. Orcad 17.4 upgrade installation
 - b. Solidworks 2020 SP1 upgrade
11. Carlos Rueda
 - a. 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.

- b. 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.
12. Brian Schlining
- a. Wrote a bit of Python to read Dorado AUV log files. See [readauvlog.py](#)
 - b. Continue meeting with CSUMB students who are making good progress on a dive overview web site.
 - c. Met w/ CenCOOS to discuss serving VARS annotations into OBIS
 - d. Meetings. OMG so many meetings.
13. Alana Sherman
- a. Engineering meeting and group lead meeting

Week 13

1. Danelle Cline
- a. Danelle was asked to participate in an Expert Committee on Oceanography for the [Canada Foundation for Innovation's](#) 2020 Innovation Fund competition. This meeting, originally scheduled for Toronto in June, has been moved to a virtual meeting in light of COVID-19. Three grants with various ocean science themes with data management, compute, machine learning and outreach components will be reviewed.
 - b. Out of Office
 - c. Vacation day Monday 3/2.
2. Duane Edgington
- a. Slack / Zoom group, engineering meetings.
 - b. Paper that I reviewed for MCPI *Sensors* was recently published [Jellytoring: Real-Time Jellyfish Monitoring Based on Deep Learning Object Detection](#)
3. Kevin Gomes
- a. Watched a couple GTC conference presentations
 - b. Taking GTC course on accelerated data science using RAPIDS framework on GPUs
4. Kent Headley
- a. Engr/Group-lead Telecons, misc admin
5. Brent Jones
- a. Taking a coursera class on Intro to Machine Learning. Hoping to apply it to hydrophone processing data
6. Brian Kieft
- a. Eng meeting
7. Denis Klimov
- a. BEDS/ Bridge Board: final review of schematic and parts placement so Jose Rosal could proceed with board layout. The goal is to have a board package ready so we could place the order when it is clear when MBARI restarts and the order could be received in shipping.
8. Eric Martin
- a. Attending Online IEEE-VR conference
 - b. Training on Tuesday with GTC on CUDA C/C++
9. Thom Maughan
- a. Engineering zoom meeting.
10. Paul McGill
- a. Attended Engineering Zoom meeting.
11. Craig Okuda
- a. Misc computer maint
12. Doug Pargett
- a. Ran a few FEA models for Gene.
13. Carlos Rueda

- a. 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.
 - b. SE IE slack and Engineering zoom meetings.
14. Alana Sherman
- a. Zoom meetings all Thurs morning and one on Tuesday.
 - b. Post doc applications

Week 12

1. Duane Edgington
 - a. Gathered laptops and files and books and references from office March 15.
 - b. Set up a home office with laptops and stuff. So far so good.
 - c. Webinar "How to scale Kubernetes in AWS" March 18
 - d. Webinar "Cloud Backup Service" from NetApp March 19
2. Kevin Gomes
 - a. Group/Corona stuff
 - b. Working on Markdown based internal and external documentation that is being hosted at <https://docs.mbari.org>
 - c. Slack support
3. Kent Headley
 - a. Misc Admin, group comms
4. Rich Henthorn
 - a. Some overdue reorganization of everyday tools (e.g., editors)
 - b. Gathered hardware for use during closure
5. Thom Maughan
 - a. Freaking out a bit. Helping my 87 year old mom understand the seriousness of the situation...
6. Mike McCann
 - a. Web3D Consortium conference call
7. Carlos Rueda
 - a. 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.
8. Brian Schlining
 - a. Virtually meeting w/ CSUMB students today
 - b. Working through this book: [Scala with Cats](#)
9. Rich Schramm
 - a. Porting old VB6 Dataprobe app to XOJO
10. Alana Sherman
 - a. Gathering work plans

Week 11

1. Duane Edgington
 - a. Working through *Learn Docker in a month of lunches* book
 - b. Reviewed interesting paper on Automated Instrument Integration Scheme (using PUCK and other technologies!) for Ocean Observatories, for MDPI *Sensors* Journal.
2. Brent Jones
 - a. Began Intro to ML class from Duke (online)
3. Chad Kecz
 - a. Helped Bridget get set up to write code for the Feather M0 (stealtcam)
4. Denis Klimov
 - a. The Bridge Board for BEDs instrument is in layout stage and should be ordered by the end of the week

5. Mike McCann
 - a. Helping Jenny with the Django tutorial and her MB-Database project
6. Paul McGill
 - a. Set up Web cam for Aaron S. to monitor pressure-test facility.
7. Tom O'Reilly
 - a. Preparing presentation "Robots in the Sea" for junior-high school students at Friends of Hue children's shelter in Hue, Vietnam. Will make presentation via Facebook Messenger.
8. Doug Pargett
 - a. Ran some FEA for Gene M. and he's modifying his design to improve pressure.
 - b. Have setup to run SW and FEA remotely if I need to stay home.
9. Carlos Rueda
 - a. Brown bag: ES / CQRS. Put together [some notes](#).
 - b. Completed migration of the ESIP COR system to a new Amazon instance.
10. Brian Schlining
 - a. Met with CSUMB Capstone students working on a web interface for visualizing videos and annotations from a dive.

Week 10

1. Duane Edgington
 - a. Lunch-time training: Kafka overview.
2. Kevin Gomes
 - a. Worked with Rich on documenting shipboard systems
 - b. Some IS related tasks like machine clean up and server reboots
 - c. Facilitating lunch time learning on Kafka and CQRS
 - d. Starting work on aircraft engine presentation and reports
 - e. Staring coordination of the annual MAOS tour group from Monterey High School
 - f. Still work on review related stuff
3. Kent Headley
 - a. Misc admin
4. Rich Henthorn
 - a. Watched some ERC proceedings
5. Carlos Rueda
 - a. Brown bag: Kafka (IE meeting)
 - b. ESIP COR: Good progress on preparations for migration of the COR and the sweetontology.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.
6. Karen Salamy
 - a. The next three days are miniROV dives on the Rachel Carson. These dives may prove to be the final quality checks for the updated MBARI Postcruise Web Form which is currently up and running. Part of the redesign was to include the miniROV and ships of opportunity in the postcruise list. I will be working closely with Lonny L. to verify that the miniROV updates were successful.
7. Alana Sherman
 - a. Finished external review!!!

Week 9

1. Francois Cazenave
 - a. I participated in a meeting with the external reviewers
2. Danelle Cline
 - a. Attended ER meeting and tuned into presentations on bluejeans
3. Duane Edgington

- a. Attended ER prep meeting
 - b. Attended ER presentations Weds Morning.
4. Kevin Gomes
 - a. All External Review all the time :)
5. Denis Klimov
 - a. Revising schematic for bridge board for BEDs instrument
6. Eric Martin
 - a. Participated in the breakout sessions for the ERC.
7. Mike McCann
 - a. Participated in some External Review Committee activities
8. Rob McEwen
 - a. Developing a Deltat simulation model for Ocean Imaging
9. Paul McGill
 - a. Attended Ocean Sciences meeting in San Diego last week
10. Doug Pargett
 - a. Reviewing pressure codes to help out Gene.
11. Ben Raanan
 - a. ER
12. Carlos Rueda
 - a. SE IE Group meeting; Attendance to ER presentations.
13. Karen Salamy
 - a. Spent a little time this week updating certain aspects of the MBARI Precruise Web Form.
 - b. Next week there will be several miniROV dives. This will be a big test of the Postcruise web forms and database integration of the vehicle.
 - c. Attended the External Review Data-Related talks this morning. They were well done and very well coordinated. :)
14. Brian Schlining
 - a. Attended external review talks and video lab demo
15. Rich Schramm
 - a. External Review session

Week 8

1. Francois Cazenave
 - a. I am preparing some experiment with niobium for AUV recharge
2. Kevin Gomes
 - a. Working on slide changes and practice for ER
3. Kent Headley
 - a. Misc admin
4. Chad Keczy
 - a. Helped Bridget get up and running with Labview. She's duplicating my RBR vi's from scratch for practice.
5. Carlos Rueda
 - a. More preparations for TethysDash migration to Centos7 and Docker. [Document updated](#). (Thanks Pat for your input.)
6. Karen Salamy
 - a. Updated a few bits of code on the MBARI PostCruise Web Form this week. I expect to be cleaning up little "bugs" here and there for a while until the system has been truly vetted with use. Tried updating new code into SVN on kahuna but ran into a few issues with new SmartSVN client not being able to establish a connection to the server. I plan to dig into the issue this afternoon.
7. Alana Sherman
 - a. external review talk prep

Week 7

1. Kevin Gomes
 - a. Hosted brown bag session on ELK stack as possible centralized logging and monitoring system
 - b. Making changes to ER presentation after getting word from ER committee that we need to short presentations.
 - c. Helped host cookie break
2. Thom Maughan
 - a. Trygve Fossum and Tore-Mo Bjorklund from NTNU meeting - discussion on collaboration opportunities, Notably NTNU yearly arctic trip in August. Met with John Ryan, Brett Hobson, Giancarlo Troni.
3. Rob McEwen
 - a. Adding a deltaT model to the OI sim.
4. Paul McGill
 - a. Spent many, many hours on NSF proposal to refurbish MARS extension cable and broadband seismometer. Got UPS working again on neural net development machine deepdark. Helped Gene with his CPF talk for Ocean Sciences.
5. Carlos Rueda
 - a. 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).
6. Karen Salamy
 - a. Lonny L. found a bug in the Postcruise web form that would not allow a registered user to add more than one dive at a time. This has now been fixed and I will be updating the main MBARI postcruise web link to point to the new form today or tomorrow.
7. Brian Schlining
 - a. Met w/ CSUMB Capstone students to kick off a project.
 - b. Put together collaborators agreements for CSUMB Capstone students.
8. Rich Schramm
 - a. Weekly Transition Planning with Kevin
9. Alana Sherman
 - a. Working on talk for Ocean Sciences on MiniROV
 - b. Working on talk for ER

Week 6

1. Mark Chaffey
 - a. Spending a few days on the external review presentations. Will have to spend a few more to make sure I'm ready if needed.
2. Danelle Cline
 - a. ACloudGuru training on CloudWatch logging with group members
3. Kevin Gomes
 - a. Finishing up performance reviews
 - b. Slide changes and practicing for external review
 - c. Held lunchtime brown bag where we watched some talks on AWS CloudWatch logging and monitoring. Could be useful for centralized logging and monitoring.
4. Kent Headley
 - a. Annual review wrap up
 - b. Misc admin
5. Thom Maughan
 - a. Contingency project is finishing the build of bio-electric field instrument
 - b. Hosted 35 Cal Poly Biology students for a tour on Friday 31 Jan 2020. Former intern Gabe Santos drove up to assist. Met with Gabe on our Pier Peer project

6. Mike McCann
 - a. Meeting with CSUMB Capstone students on Wednesday afternoon
 - b. Meeting with other Engineering staff in preparation for External Review Committee
7. Craig Okuda
 - a. Lab setup
 - b. DMO support paragon
 - c. Simrad sonar noise troubleshooting
8. Carlos Rueda
 - a. Put together and shared [some notes about CI/CD](#).
 - b. SE IE Group meeting. Presented the MXM setup for continuous deployment using [Watchtower](#).
 - c. Advancing CentOS migration for 'tethysdash' and looking into time frame for 'oceanids' as well.
 - d. ESIP asking me about possible time frame for one more AWS instance migration for the COR.
9. Karen Salamy
 - a. Working with Lonny to locate a bug in the Postcruise Web Entry Form. The option to add multi-dives to one EXPD appears to still be problematic.
10. Rich Schramm
 - a. Transition planning
11. Alana Sherman
 - a. Two days out with sick kid
 - b. Working on ER presentation

Week 5

1. Danelle Cline
 - a. Performance review
2. Kevin Gomes
 - a. Performance Reviews
 - b. Working on External Review Presentation incorporating comments from walkthrough last week
 - c. Working on new script for consolidating weekly reports for engineering
3. Kent Headley
 - a. Annual review meetings
 - b. External review practice session
4. Rich Henthorn
 - a. Performance review
5. Chad Keczy
 - a. Hosting Bridget Benson
 - b. Had my annual review. Bad news: everyone is stuck with me for at least one more year :)
6. Brian Kieft
 - a. Meet with Mesobot team to discuss plans for this year
 - b. Hosted seminar speaker
7. Denis Klimov
 - a. Writing material for a performance review.
 - b. Revising schematic for a BEDs 'Bridge Board'
8. Mike McCann
 - a. Setting up new Mac Pro computer with necessary software
9. Craig Okuda
 - a. Paragon Cell modem programming
 - b. Lab clean up
 - c. Troubleshoot Simrad sonar noise
10. Carlos Rueda
 - a. Upgraded the vocabulary repository system for the X-DOMES project (hosted at TAMU-CC).
 - b. Annual Mandatory Hazard Communication Presentation and quiz.

- c. Reformatted and added items to [SE IE skill matrix](#).

- d. Annual perf evaluation.

11. Karen Salamy

- a. Trying to locate a bug in the Postcruise Web Form code that does not allow the entry of subsequent dives during multiple dive cruises (e.g., Western Flyer cruises). Will work with Lonny to diagnose and fix.

- b. Had annual review this week with Kevin. We also discussed my project load for this year and best tactics on how to proceed.

12. Brian Schlining

- a. Brian submitted a capstone project to CSUMB for students to work on a project at MBARI.

13. Alana Sherman

- a. working on reviews all week plus prepping for external review.