Eric Martin Sorted By Project

708164 - Integrating efficient and dependable wave power generation

708167 - WEC Dynamics and Control

- Radar arrived and mounted on the roof of building B for testing and software development. (Week 8)
- Radar driver testing on raspberry pi. (Week 13)
- Working with Rob to verify hdf5 files. (Week 13)
- Radar in final stages of roof testing, supporting collaborators at JHU. (Week 14)
- Initial radar tests good, Rob McEwen is processing, auto gain is clearly needed. (Week 17)
- Working with rob. (Week 21)
- Data issues last week, the system seems rather stable despite. (Week 21)
- Meeting last week, working with Rob on trying to find a good set of settings (Week 24)
- Assembling archival data set. (Week 49)

901101 - Seafloor Mapping

- 3DatDepth scoping effort (Week 2)
    - Initial meeting (Week 2)
    - SOW review (Week 2)
    - Wishlist generation (Week 2)
- New Multibeam Sonar (Week 2)
    - Reviewing past selections, soliciting new quotes (Week 2)
    - General search for new systems (Week 2)
- Cruise Prep, at sea Feb 17-24 Octopus Garden (Week 2)
- Technical kickoff on tuesday for 3d@depth subcontract (Week 3)
- (Week 3)
- Technical kickoff meeting with 3DatDepth last week, follow on last Friday by a software tour. (Week 4)
- Coordinating speed tests with Dominic at 3DatDepth (Week 4)
- Sled Change set for Monday the 14th (Week 4)
- Strobes submitted to shop for service. (Week 4)
- Cruise in February has been swapped on request from the Aquarium, now deploying June 2-7 (Week 5)
- Strobes have been serviced. (Week 5)
- Coordinating with Larry Bird for information transition. (Week 5)
- Continuing the multi beam hunt met with Teledyne's Paul Devine (Week 8)
- Expedition planning meeting tuesday (Week 11)
- Sled was used last week in a presentation to visiting military group. (Week 13)
- Getting ready for tank tests next week. (Week 13)
- Closing in on multibeam selection, the recent reports from Winghead have proven limiting. (Week 14)
- Prepping for camera tests (Week 15)
- Monthly check in with 3d at depth, setting a date for a concept review in june. (Week 15)
- Camera testing last week. Prepping for tank tests. (Week 17)
- Moving the lab downstairs. (Week 17)
- Cruise prep (Week 21)
- Meeting with Paul Devine at Teledyne Reson, working on a quote plan for a new T50 system for the sled. (Week 21)
- Cruise was cancelled, demobilized and discussing other options. (Week 24)

- 3D@Depth is near completion on their contract to generate a feasibility study of a generation 2 wide-swath lidar, and gave a concept review to MBARI engineers on Tuesday morning. Feedback was good, and the next steps will be to produce a final proposal that we can consider inserting into the 2023 internal proposal cycle. (Week 24)
- Ordering new multibeam (Week 26)
- Arctic expedition meeting last thrusday, much to learn. (Week 32)
- Meeting Monday on winfrog/sonardyne setup on the Araon (Week 32)
- Working with Chad on the modifications to the LASS (Week 32)
- Returned Wednesday from the Arctic Expedition, it was very successful. (Week 38)
- Catching up on sled conversion efforts with Chad. (Week 38)
- Turning my attention to software and electrical tasks for the Ventana re-integration effort (Week 39)
- Checkin with 3D at Depth last week, they have been approved to start work on a new design. (Week 42)
- Meeting with DJ regarding power input for the sled. Will require a connector conversion. (Week 42)
- Designing Cables for the Reson system wiring. (Week 42)
- Bench testing refactored power can, working through wiring and power issues. (Week 46)
- Mounting new sonar (Week 48)
- Working with larry bird on sled fit (Week 48)
- Troubleshooting PPS issues (Week 48)
- Successful final integrations and dock tests of the LASS sled on Ventana. (Week 49)
- Cruise canceled Monday/Tuesday (Week 51)
- Successful integration of the LASS on Ventana (Week 51)
- LASS Integration on Ventana went very well. Sadly the ship was damaged and we lost our days last week. (Week 52)

901206 - Coastal Profiling Float Transition to Science Applications

- Aiding in troubleshooting the buoyancy engine issues at depth. (Week 2)
- Reclassifying the buoyancy engine for depths < 150 meters temporarily. (Week 2)
- Working with Paul Coenen to get Floats 1 and 2 operational. (Week 2)
- Working with Paul Coenen, almost time to start production checkouts on CPF001. (Week 3)
- Monday meeting to layout production plans, goals for June. (Week 4)
- Configuration interface near completion. (Week 4)
- CPF001 is in my office, production tests beginning. (Week 4)
- Initial physical checks on CPF001 complete, some issues found. (Week 5)
- Great progress on the buoyancy issues, it seems some elmo limits are causing unexpected behaviors without error reporting. (Week 5)
- CPF001 back the MEs for oil fill (Week 8)
- Training last week for new operators (Week 8)
- Addressing bugs from the last deployment (Week 11)
- Next set of bug fixes were tested and rolled in, leading to a deployment yesterday. (Week 13)
- Bug fixes in and tested last week. (Week 14)
- Starting Post oil fill checkout on CPF001. (Week 14)
- Deployment last week went well until last friday. (Week 14)
- CPF001 prep for pump motor calibration. (Week 15)
- CPF001 ready for final assembly and tank testing. (Week 17)
- Light support for current deployment (Week 17)
- Troubleshooting issues with latest energy monitoring mods. (Week 21)
- Wake from sleep (Week 21)
- Sleep on anchor development (Week 24)
- Testing wake on sleep. (Week 39)
- Sleep on anchor testing (Week 46)
- Sleep on anchor close to tank tests. (Week 48)

- Vehicle is sleeping and waking up well. (Week 49)
- Prepping for tank tests (Week 49)
- Testing sleep on anchor (Week 52)

901405 - Wave-Energy Conversion for Oceanographic Applications

- New modem cabled/tested, in Todd Ruston's hands for configuration. (Week 2)
- Testing radar data converter, getting Rob involved in the analysis (Week 2)
- Installed rotating safety light on top hat to ensure notice of live 300V in hazardous areas. (Week 2)
- BatteryController into ETs for assembly (Week 3)
- Radar group meeting last week (Week 3)
- Helping Rob with Radar tasks (Week 3)
- Boards in progress for Battery Controller (Week 4)
- Meeting last week with JHU APL (Week 4)
- Other CANBUS changes ongoing. (Week 4)
- Radar Meeting last week (Week 5)
- Brief check on data integrity for gain changes (Week 5)
- New modem installed (Week 8)
- Old modem may be reparable, SMA connector loose. (Week 8)
- Drawing update for controller box (Week 11)
- Ordered parts for final installation (Week 11)
- Radar software first revision released last week, Rob McEwen is working on data plotting. (Week 11)
- Rework of the controller box drawn into techs, already complete, tested and reinstalled. (Week 13)
- Preparing for deployment next week. (Week 14)
- Many minor issues have popped up that required lots of disassembly and re-assembly, but today all systems seem good. (Week 14)
- Lots of cleanup lastweek and final testing, including detection and fix of a broken joint deep in the buoy. (Week 15)
- Data volume assessments with Patrick for IFCB and buoy data over cell. (Week 15)
- Closely monitoring the buoy for its first week out, so far so good. (Week 17)
- Looking into AHRS issues on my logger application. (Week 24)
- Troubleshooting CAN bus, likely problem was found in a failed wet cable. (Week 32)
- Collecting radar data in one place for archival and transmission to collaborators at JHU. (Week 42)
- Found issues with CANbus, a broken lead in the em-cable (Week 51)
- Troubleshot Tether damage with Andy and Francois, seems like the canbus failure was in the quad conductors somewhere inside the tether. Some water was found in the bottom termination. (Week 52)

901700 - Acoustical Ocean Ecology

- Reviewing paper on the comparative AUV/ROV transect work. (Week 24)
- Consult with Brett for noise mitigation on the EK80 on LRAUV (Week 42)

901911 - ROVVR

- Kickoff meeting in progress (Week 4)
- Release v1.0 of new controller. Integrates with streamdeck and provides reliable time sync (Week 8)
- Camera was damaged last week, we will have to replace domes and recalibrate prior to next deployment for Haddock Expedition (Week 11)
- See telepresence note on presentation (Week 13)
- Looking for Data products, brainstorming proposal concepts. (Week 24)
- Went threw a new pile of items, collected all the the parts into the B125 lab. (Week 32)
- Following up on proposal feedback. (Week 38)
- Discussions with Steve and Drew as project management transition begins to Drew. (Week 42)

- Tests of recording using M3RS (Week 46)
- End of year spending, getting spare equipment. (Week 49)

902012 - Telepresence on MBARI Research Vessels

- Start of year meetings (Week 2)
- L. Takayama Collaboration Paperwork (Week 2)
- Meeting last thursday (Week 3)
- Finalizing SOW and Collab agreement with Leila Takayama (Week 3)
- Hoku labs contracts complete (Week 4)
- Did concept design and brief review with group last week for rack units. (Week 5)
- (Week 8)
- Updates on PCs caused a soft brick that forced a BIOS rollback. (Week 11)
- Meeting last thursday. (Week 11)
- Testing a new feature for users that informs them of current ROV position and geographically nearby annotations: http://telemaster-u.shore.mbari.org:8000 (Week 11)
- Screenshot upload to DMZ running on VM. (Week 13)
- Interview with Leila last week. (Week 13)
- Presented a new talk focused on the common threads of telepresence and VR to prospective group of Western Flyer buyers: (Week 13)
- Microservices to mirror screengrabs from vessels to telepresence.mbari.org (Week 14)
- Meeting last thursday (Week 15)
- Meeting last week to review Leila Takayama's first workpackage. She has really engaged people and pulled out some very interesting insights. (Week 17)
- Moving forward with surveys. (Week 17)
- Reviewing report from Leila, great results, and we're getting ready to release the report more broadly. (Week 21)
- Planning a project update to discuss these results with the broader community at MBARI (Week 21)
- Looking into project update (Week 24)
- Coordinating for the final telepresence cruise, for Kakani Katija. (Week 32)
- Submitted board bullets to Cindy (Week 42)
- Working on 2 papers, a short one for a DEI submission and the full paper for CSCW (Week 42)
- Tore down the telepresence gear on the flyer and moved to B123 (Week 42)
- Paper Writing for CSCW (Week 46)
- Conducting Starlink tests with IS, promising early results. (Week 49)
- Writing the CSCW paper (Week 51)
- Tests on starlink postponed due to canceled carson cruise this week (Week 51)
- Paper is getting close, meeting weekly with the writing team. (Week 52)

902204 - Scalable Marine Robotics Foundations

- Brief chat with GT last week, mostly advising on upcoming cruise work and moving. (Week 3)
- Paragon ASV data collection concepts (Week 17)
- Discussing some added project management tasks. (Week 17)
- Project management bits. (Week 21)
- Lots of work with GIM robotics (Week 21)
    - presented the ASV concept and received feedback. (Week 21)
    - Sprint #1 review last thursday. (Week 21)
    - Prepared new dataset for GIM to try different SLAM on. (Week 21)
- Coordinating with facilities for lab changes. (Week 21)
- Lidar for paragon spec (Week 24)
- Boxfish follow up (Week 24)

- Gim Robotics calls (Week 24)
- New intern onboarding and mentoring. (Week 24)
- Gettting the tank stereocam together with intern Alex. (Week 32)
- Catching up on Boxfish shipment (Week 38)
- Finalizing the shipping details on the Boxfish, including export controls (Week 39)
- Scheduling Training for Boxfish (Week 39)
- GIM Sprint review (Week 39)
- Testing the Ouster Lidars (Week 39)
- The boxfish vehicle is here and working, we are working through understanding some issues with it, and trying to close out all tickets with Boxfish. (Week 42)
- Supported photo shoots with the aquarium (Week 42)
- Many project management items this week. (Week 42)
- Reviewing applicants for the REE position. (Week 42)
- Working with Boxfish to resolve issues with the pcb assemblies. They are sending a new one out. (Week 46)
- REE hiring Committee (Week 46)
- Working on end of year fund commitments. (Week 46)
- Hiring committee work (Week 49)
- Fixed the Mola with help of Boxfish (Week 49)
- Cabling for VN100 on Mola (Week 51)
- Test tank data collection using LASS for SLAM work. (Week 51)
- End of year purchases for the lab (Week 52)
- Hiring contacts for RE position finalists. (Week 52)

DQ2032 - DOE Wave-Energy Control

- Welcome to Michael (Week 2)
- Kickoff this friday (Week 4)
- Had meeting last week, will be delaying OR involvement until April. (Week 5)
- Meeting last week with Open Robotics (Week 14)

Out of Office

- Vacation Feb 21-25
- STCW training April 11-15
- STCW training April 11-15 (This week)
- July 1-31
- Aug 21-Sept 18 Arctic Expedition

Overhead

- Wrote 2021 highlights, review with Alana. (Week 3)
- Arctic Expedition meeting (Week 11)
- DEI training (Week 13)
- Interview of Seafloor Processes candidate. (Week 17)
- Katie Maier interview last week, writing up. (Week 21)
- Exposures last week have kept me at home, likely through Thursday (Week 21)
- PI selection committee meeting, provided verbal feedback on my interviews (Week 24)
- Preparing for Aaron's interview this Friday (Week 38)
- SE hiring committee meeting (Week 42)
- Dorado Artic Debrief Notes and meeting last friday. (Week 42)
- SEE hiring committee (Week 46)
- Minirov job description review (Week 46)
- SEE Committee (Week 49)

- ASUAV interview monday (Week 49)
- Presented on project management to post-docs (Week 49)
- Met with ME and ASOE candidates last week. (Week 52)