

Paul McGill

Week 52

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - On vacation this week

Week 51

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - On vacation this week

Week 50

- 300070 - DMO Support Ventana
 - Tested ground-fault channel isolator board with Jose. Made some changes to DTEC board and now they seem to work together.
- 701127 - MARS O&M III
 - Helped MARS team to understand their ground-fault circuit.
- 701145 - Penguin Hotspots
 - Integrated AOS board into system schematic
 - Got Brent's AOS code and was able to compile it and program AOS boards.
- 901618 - Pelagic-Benthic Coupling
 - Alana and I replaced Li batteries in Rover.
 - Finished repairs to stbd propulsion motor controller.
 - Troubleshoot Rover MF modem. It's dead and replacement is on order.
- 901700 - Acoustical Ocean Ecology
 - Finished analysis of Deimos cable failure, which appears to be failure of ODI connector.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory

- Ordered dummy plugs for Deep Sea Connect antenna connectors.
- Overhead
- Out of Office
 - I've been taking a vacation day on Fridays

Week 49

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - Medical appointment Tue morning

Week 48

- 300070 - DMO Support Ventana
 - First powerup of new channel isolator board for ground fault system. Jose and I found some issues that we're working on.
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
 - Much progress on REMUS sonar payload schematics.
- 901618 - Pelagic-Benthic Coupling
 - Preparing for Jan cruise of unknown data.
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Worked with Alana and Aaron to get Coral Macro Cam ready for Barry cruise leaving Thu morning. Alana and I will support deployment through telepresence.
- Overhead
- Out of Office
 - Medical appointment Tue morning

Week 47

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - Took Fri off as shore leave

Week 46

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
 - Slogging ahead with schematics. System diagram done, working on can wiring.
- 901618 - Pelagic-Benthic Coupling
 - Responding to multiple interview and article requests for Rover
 - Working on getting instruments ready for hopefully a Jan 2022 deployment
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working to get Coral Macro Cam reassembled
 - Tested Deep Sea Connect can on Ricketts ROV
- Overhead
 - Multiple interviews for EE hire
- Out of Office
 - Took Fri off as shore leave

Week 45

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
 - Working on system schematics for REMUS sonar payload.
- 901618 - Pelagic-Benthic Coupling
 - Continue to troubleshoot Rover and SES faults
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Reconfiguring Coral Macro Camera to put laser drivers inside camera housing
 - Met with Doc Ricketts pilots to interface Deep Sea Connect hardware with ROV
- Overhead
 - Working on signal processing paper with Yanwu and John Ryan
 - Interviewed EE candidate Ian Miller
- Out of Office
 - Took Fri off as shore leave
 - Out for routine medical test on Tue

Week 44

- 300070 - DMO Support Ventana
 - Went to Monterey Bay Academy on Tue to participate in UAV testing. Things were broken, lessons were learned.
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
 - Working on schematics for REMUS sonar payload.
 - Getting copper parts machined to assemble second sonar Faraday shield.
- 901618 - Pelagic-Benthic Coupling
 - Troubleshooting failures in Rover and SES.
- 901700 - Acoustical Ocean Ecology

- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Team members met to discuss transfer of hardware and software to NOAA PMEL.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working with Alana to integrate targeting laser system into main camera housing.
- Overhead
- Out of Office

Week 43

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - Took vacation day on Friday

Week 42

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Dealing with instruments brought back after our truncated Western Flyer cruise.
- 901700 - Acoustical Ocean Ecology
 - Did Test-Tank-side testing of MARS Echosounder and was stymied by networking issues.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Reviewed budget so that accounting can allocate remaining project funds to discretionary account.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working with Alana to troubleshoot failure of Coral Macro Cam during last deployment. We can't figure out what stopped data collection after 6 hours.
- Overhead
 - Did calculations to determine if a UAV flying from Monterey Bay Academy is within the MBNMS regulatory zone. It isn't, but we'll inform the Sanctuary regardless.
- Out of Office
 - Took vacation day on Friday

Week 41

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Was on Western Flyer for Smith cruise, but came in early on Monday due to ship engine problems.
 - Unloaded ship
 - Looked over Laser Measure results sent by Dan Davis and sent him measurements of our test targets.
- 901700 - Acoustical Ocean Ecology

- Met with Craig Dawe to set up tests for MARS Echosounder.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Made a movie of images from recent Coral Macro Camera deployment and am working on write-up for board bullets.
- Overhead
- Out of Office

Week 40

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Pressure tested Squirty pump
 - Finished wiring Squirty pumps and controllers
 - Did final edits on Rover paper
 - Submitted abstract for Ocean Sciences Meeting
 - Loaded Flyer for cruise leaving Wed
- 901700 - Acoustical Ocean Ecology
 - Finished wiring of MARS connector interface
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Deployed Coral Macro Cam from Carson, will get picked up this week
- Overhead
- Out of Office

Week 39

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Pressure tested new Squirty pump with John F., all is good.
 - Got pumps wired and tested for deployment next week.
 - Packing for Flyer cruise next Wed.
 - Met with Teledyne/Benthos reps to discuss Rover and SES modems.
- 901700 - Acoustical Ocean Ecology
 - Finished schematics for MARS Echosounder and identified suitable 375 V connector.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Tested Coral Macro Camera in Test Tank with Alana et al.
 - Loaded ship for Carson cruise on Thu.
- Overhead
 - Attended UAV workshop led by Bryan T-S.
- Out of Office

Week 38

- 300070 - DMO Support Ventana

- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - Took vacation day Fri

Week 37

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - Took vacation day Fri

Week 36

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
 - Ordered more power converters for Simrad sonar and did calcs to figure out how to modify them.
- 901618 - Pelagic-Benthic Coupling
 - Preparing Macro Cam for next Monday's cruise
- 901700 - Acoustical Ocean Ecology
 - Tested MARS interface can for MARS Echosounder. Found minor issues and am fixing them.
 - Had Zoom meeting with former colleagues of Kelly at UNH and NOAA to help them address EMI noise issues with a Simrad WBT-Mini sonar.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Tested Deep Sea Data Connect with Alana. Finishing wiring and mechanical design of components.
- Overhead
- Out of Office
 - Took vacation day Fri

Week 35

- 300070 - DMO Support Ventana
 - Continue to work on DTech Ground Fault Isolator board with Jose.
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Finished Squirty schematics.

- Responded to reviewer's comments on Rover paper, and found a few more errors.
- 901700 - Acoustical Ocean Ecology
 - Finished system schematics for MARS Echosounder and got half of chassis wiring finished.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Tested ROV cable for Coral Macro Camera so it's now ready for potting.
 - Finished system schematics for Deep Sea Data Connect.
 - Finished assembling and testing laser targeting system for Coral Macro Camera, will mount them on tripod on Thu.
- Overhead
- Out of Office
 - Took vacation day Fri

Week 34

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Responding to reviewer's comments on Rover paper
 - Tested burn-wire boards and sent one to Benthos
 - Got optode cable built for Oct Rover turnaround
- 901700 - Acoustical Ocean Ecology
 - Trying find a place for current limiter board in the MARS Echosounder can
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Finished schematic for ROV cable on Deep Sea Data Connect for Coral Macro Cam
 - Tested new laser aiming system for Macro Cam, met with Jim B. to agree on settings
 - Ordered cable and connectors to extend RF cables for Deep Sea Data Connect
 - Trying to solve weird Sony camera issue with Alana
- Overhead
- Out of Office
 - Took vacation day Fri

Week 33

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 32

- 300070 - DMO Support Ventana
 - Met with Jose and DJ at Ventana to plan physical layout of ground-fault isolator board

- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
 - Working with James M. to get 3 more WBT Mini Faraday Shields built
- 901618 - Pelagic-Benthic Coupling
 - Took used Rover batteries to e-waste.
 - Working with Benthos to get quote for new MF modem.
- 901700 - Acoustical Ocean Ecology
 - Tested current regulator for MARS Echosounder but it didn't work well so am building a different version
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Collecting parts for wiring of Deep Sea Data Connect
- Overhead
- Out of Office

Week 31

- 300070 - DMO Support Ventana
 - Working with Jose on ground fault isolator board
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
 - Test fitted sonar Faraday shield into Jon's chassis and it all looks good. Moving ahead with more shield boxes.
- 901618 - Pelagic-Benthic Coupling
 - Working with Duane E. on Laser Measure images from last deployment.
- 901700 - Acoustical Ocean Ecology
 - Built current limiter to protect Vicor on MARS Echosounder. Not working yet but figuring it out.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Made labor estimates for different scenarios depending on what resources we're given this year and next.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
 - Replace swollen Li-ion battery in my laptop.
- Out of Office

Week 30

- 300070 - DMO Support Ventana
 - Working with Jose on ground-fault isolator PCB
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Had Zoom meeting with team at Teledyne Benthos about our needs for Rover modems
 - Met with Duane E to review progress on laser measure camera calibration and image analysis
- 901700 - Acoustical Ocean Ecology
 - Drawing schematics for MARS Echosounder
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Coming up with new labor estimates for next year's proposal in light of unforeseen delays in this year's progress
 - Team met with Francisco and Yui about state of project and how it might be useful to Francisco's lab

- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
 - Catching up on a lot of email after vacation
- Out of Office

Week 29

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 28

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 27

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 26

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development

- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 25

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 24

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Prepared laser target to adjust lasers before next week's cruise.
 - Worked with Alana to test Macro Camera in Test Tank.
 - Ordered connectors for Squirty stirrers
 - Did calculations to try to locate Rover based on sparse data from WG Tiny
- 901700 - Acoustical Ocean Ecology
 - Met with Chad W. and François to start design of MARS Echosounder frame and housings
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Helped Craig O. with assembly of manifolds
 - Ordered many parts for DIC analyzers
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Worked with Alana to test Coral Camera Tripod in Test Tank
- Overhead
- Out of Office

Week 23

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Did calculations to figure out where Rover should be so WG Tiny can find it
 - Working with Kent H. on algorithm for Loop and Cross code
- 901700 - Acoustical Ocean Ecology
 - Working with Chad W. to figure out best design for next MARS Echosounder extension cable
 - Helped Chad figure out ground fault on current MARS Echosounder
- 901800.98 - Bioacoustic Payload
 - Settled on design for Remus payload chassis, going to fabrication
- 901803 - Carbon Wave Glider Development
 - Ordered more parts for Craig O.

- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 22

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
 - Working with Chad W. on wiring of REMUS sonar payload
- 901618 - Pelagic-Benthic Coupling
 - Working on Rover paper
 - Helping Alana with wiring of Macro Camera
- 901700 - Acoustical Ocean Ecology
 - Tested latest incarnation of sonar Faraday shield with Chad W.
 - Ordered power supplies for MARS Echosounder
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Had Zoom meeting with PMEL to discuss DIC analyzer testing strategy
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Installed battery in DiSCO camera
 - Compiled inventory of our numerous lasers
- Overhead
- Out of Office

Week 21

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Did calculations and generated figure for Rover paper
 - Compiling an inventory of laser serial numbers and current locations
 - Working with Kent H. on Loop and Cross algorithm
- 901700 - Acoustical Ocean Ecology
 - Assembled and tested latest revision of Faraday shield for MBT Mini sonar
 - Obtained and configured Vicor Micro boards for MARS Echosounder
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Met with Andrea F. and worked on project abstract for Monday's presentation
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working with Adriana S. on configuration of wireless access points.
 - Building test rig for cold-room test of targeting laser
- Overhead
 - Contacted WHOI about Lithium battery design policies in place there
- Out of Office

Week 20

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling

- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 19

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 18

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 17

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 16

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology

- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 15

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 14

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 13

- 300070 - DMO Support Ventana
 - Met with DJ about shielding in Ventana's tether
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Worked with Wave Glider team trying to locate Rover at Station M. Cleaned up code for calculating position from acoustic ranges to improve accuracy.
 - Met with Kent H. to discuss how to get Loop and Cross code deployed on Wave Glider.
 - Created schematic and specifications for sediment trap agitator pump battery.
 - Did battery inventory to prepare for next Li battery order.
- 901700 - Acoustical Ocean Ecology
 - Mostly completed assembly of sonar Faraday shield. Got Johnny to fab some last copper parts that I'll attach this week for testing next week.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Had meeting with Andrea and team to decide how to move forward this year and next.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 12

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Calculated new estimated positions for Rover and SES so that Wave Glider can talk to them at Station M.
 -
- 901700 - Acoustical Ocean Ecology
 - Shopping for Enet switches for MARS Echosounder
 - Made adjustments to parts for WBT Mini Faraday shield and received new parts from James M. Will attempt to assemble them this week.
 - Resumed hyperparameter tuning on CNN for sonar identification.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Ordered parts for work stand.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Attempted to stabilize Coral Cam video from last deployment with limited success, now trying to calculate dense optical flow so we can get an idea of how the camera is moving in the current.
 - Worked with Aaron S. to size housings for Deep Sea Data Connect.
 - Drawing schematics to get new laser power supply and flasher fabricated for Coral Macro Cam.
- Overhead
- Out of Office

Week 11

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Processing video from last dive series.
 - Worked with Mariah to make a new calibration grid for Laser Measure and ordered a new metal print from Bay Photo.
- 901700 - Acoustical Ocean Ecology
 - Did initial assembly of WBT Mini Faraday shield and adjusted design dimensions where needed. Met with James M. to work on PCB layout for power filter on shield.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Ordered more parts for work stands.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Met with Aaron to figure out housing sizes needed for Deep Sea Connect hardware.
- Overhead
- Out of Office

Week 10

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Successfully deployed and recovered Larval Pump Sampler on Mon and Tue Rachel Carson/Ventana cruise.

- 901700 - Acoustical Ocean Ecology
 - Got PC boards back from techs to build Sonar Faraday Shield. Some minor adjustments need to be made but we're getting much closer.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Ordered sheet metal parts for test stands
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
 - Started PCB Designer online courses. Trying to finish OrCAD online courses before they expire on April 3.
- Out of Office

Week 9

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - Will take vacation Feb 16th thru 19th.

Week 8

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - Will take vacation Feb 16th thru 19th.

Week 7

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office
 - Will take vacation Feb 16th thru 19th.

Week 6

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Getting quotes for Squirty battery assembly.
- 901700 - Acoustical Ocean Ecology
 - Modified Enet switch for wider power supply range and delivered to Chad W.
 - Beginning to spin up on Deimos (sonar plugged into MARS) redesign for this year.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Inventoried and delivered more parts to Craig O.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Reviewed schematics with Alana.
 - Tested magnetic reed switches through Ti housing, and they work.
 - Reverse-engineering POE injectors so they can be modified to deliver power both ways.
- Overhead
 - Got TWIC renewed.
 - Edited third draft of Ti trade publication article.
- Out of Office
 - Will take vacation Feb 16th thru 19th.

Week 5

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Lots of back and forth with Dan Davis to work out issues with Laser Measure. Trying to find images that will let us calculate laser direction vectors.
- 901700 - Acoustical Ocean Ecology
 - Worked with Chad W. in lab to test new DC-DC converter to power Enet switch in sonar payload. It doesn't cause interference so I'll integrate it into switch.
 - Made initial model of sonar Faraday shield. Need to make more measurements to get hole placement correct.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
 - Inspected last of parts received from end-of-year orders
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Ordered connectors for Coral Macro Cam wireless comms.
 - Reviewed Coral Macro Cam schematic with Alana.
- Overhead
- Out of Office

Week 4

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Working with Duane E. on Laser Measure, trying to analyze images from last Oct. Still not working but we're knocking down problems.

- 901700 - Acoustical Ocean Ecology
 - Working on mechanical layout of sonar Faraday shield.
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Finished system schematic for Coral Macro Cam wireless data connection. Reviewed with Alana and ordered a bunch of connectors.
- Overhead
 - Annual evaluation with Alana.
 - Updated the OS on my laptop after many backups.
 - Jon E. and I had Zoom meeting with International Titanium Association, who want to publish an article about our uses of Ti for our projects.
- Out of Office

Week 3

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- Overhead
- Out of Office

Week 2

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots
- 901618 - Pelagic-Benthic Coupling
 - Worked on Squirty pump controller but having problems with Microchip programming tool.
 - Did some cleanup of archived Rover data.
- 901700 - Acoustical Ocean Ecology
 - Ordered parts for power supply for Enet switch in LRAUV sonar payload.
 - Got home copy of OrCAD connected to CIS database at MBARI
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Worked out system-level wiring with Alana for Coral Macro Camera.
- Overhead
 - Ben E. and I had Zoom meeting with Karen Alley at Univ of Manitoba to advise her on using UAVs in polar regions.
 - Watched "Picture a Scientist" and attended discussion.
- Out of Office

Week 1

- 300070 - DMO Support Ventana
- 701127 - MARS O&M III
- 701145 - Penguin Hotspots

- 901618 - Pelagic-Benthic Coupling
 - Updating Microchip compilers to resurrect Squirty pump controller
- 901700 - Acoustical Ocean Ecology
- 901800.98 - Bioacoustic Payload
- 901803 - Carbon Wave Glider Development
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working on wireless data connection for Macro Cam
- Overhead
 - Set up meeting with Univ of Manitoba researcher who wants advice on operating UAVs in polar regions. Bringing Ben Erwin into the discussion.
 - Worked with Jose to set up OrCAD CIS access from my laptop
- Out of Office