

Irene Hu

Week 53

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - 12/23-1/1: vacation

Week 52

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
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- Overhead
- Out of Office
 - 12/23-1/1: vacation

Week 51

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Finished tuning snubber circuit for revD baseboard
 - Tested inrush current and startup times. Removing inrush circuit for revD baseboard
 - Measuring hibernation current for Tiva1290
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Some modeling/visualization of LED strength and attenuation, check w/ Paul's calcs
 - Ordered LEDs
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Weekly meeting
- DQ2305 - Glider OAE

- Overhead
- Out of Office
 - 12/23-1/1: vacation

Week 50

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Hibernation problem with TM4C129 solved by contractor, tested his solution
 - Troubleshoot and checked out three new 129 modules
 - Rehabilitated remaining two revC baseboards
 - Measuring hibernation current using revC baseboard. Unfortunately layout did not solve issue with current spikes when module's hib power is connected to baseboard
 - Trying to tune snubber circuit on revC baseboard; two scales of oscillation
 - Changes made to revD baseboard, awaiting snubber circuit results
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Meetings to discuss future of project
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - 11/25-11/29: vacation
 - Dec 4: Carson day
 - 12/23-12/27: vacation

Week 49

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Testing and troubleshooting Tiva129 module; fixed some assembly errors, working on TM4C129 failure to hibernate
 - Troubleshooting mcaps with Jess (some 0ohm capacitors)
 - Troubleshooting and testing MSC3 baseboard revC. 12V regulator seems to work well, some assembly errors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Meeting to discuss future of project
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Changing batteries and other prep for deployment Dec 4
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - 11/25-11/29: vacation

- Dec 4: Carson day
- 12/23-12/27: vacation

Week 48

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - 11/25-11/29: vacation
 - Dec 6: Carson day

Week 47

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Troubleshooting Tiva129 failure to hibernate
 - Bug testing for MSC3; look through code
 - MSC3 rC baseboard sent out
 - Working w/ Jess to set up mcap checkout process for Johnson lab
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Fixing up checklist for upcoming deployment
- DQ2305 - Glider OAE
- Overhead
 - Chad design review
 - Organized Bike to Work 11/19/24
- Out of Office
 - 11/25-11/29: vacation
 - Dec 6: Carson day

Week 46

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Checked out and set up all MSC3 Tiva123 modules received from Indtec
 - Tiva129 modules received, configured code and uploaded; mostly works. Had to troubleshoot one board (broken oscillator)
 - MSC3 revC layout (Jose) almost finished
 - Helping set up and troubleshoot the first MSC3 QC box

- 901805 - Coastal Biogeochemical Sensing Program
 - Finished first draft at non-iso Nano and caught some errors in other boards based on nanofet
 - Worked through circuit for alkalinity sensor from Scripps, generated list of questions
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Call w/ John from EVT re: lens control issues after firmware update for camera; new firmware received and tested, works wonderfully and allows readout signal to be used
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Bike to work 11/6/24, 11/19/24
- Out of Office
 - 11/25-11/29: Thanksgiving holiday

Week 45

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - MSC3 Baseboard rC is in layout
 - Parts inventory for MMS Digital Boards next build
 - Working w/ Ben on preprogramming chips before sending to Indtec
- 901805 - Coastal Biogeochemical Sensing Program
 - Working on non-isolated version of Nanofet
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Updated camera firmware which broke some things; trying to get eCapturePro to work
 - Looked into image registration
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Bike to work 11/6/24, 11/19/24
- Out of Office
 - 11/25-11/29: Thanksgiving holiday

Week 44

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Tiva129 module sent off for fab
 - 12V regulator on MSC3 baseboard received feedback from E2E of "very poor layout". Working on rC of baseboard that cleans up vestigial upstream components. Removing ferrite bead from rB board seemed to get regulator working, but it broke again during probing before could verify

- Concluded tests of ideal diodes / hib power supplies, wrote a writeup, changes made for rC
 - Discussed mcap inventory procedure with Jess
 - Got Xeltek programmer to work again for MMS digital boards AT17 and PIC programming; working on a writeup for Ben
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Went through second half of images from 10/7 dive to pick out in-focus views
 - Exploring image correction for white balance, some strange results
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Rec com meeting; planning Bike to Work
- Out of Office
 - 11/25-11/29: Thanksgiving holiday

Week 43

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Tiva1290 module: finished schematic, working with Jose on layout
 - Mini ISUS baseboard: mostly done with schematic
 - MSC3 baseboard: Troubleshooting 12V regulator continues with help of E2E
 - MSC3 baseboard: current measurements for testing ideal diodes for hib power were influenced by noise of nearby PSU... need to redo
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - White balance analysis
 - Starting to try correcting images for white balance
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Weekly meeting
- DQ2305 - Glider OAE
- Overhead
 - Rec com BBQ 10/9/24
- Out of Office

Week 42

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - MSC3 Tiva 1290 module draft, sent to Thom for checking, negotiating details
 - Troubleshooting 12V convertor on MSC3 Baseboard revB. Fails with combo of low Vin (eg 8V) and higher load (~750 mA is where problems appear)
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory

- Picked out images from 10/7 dive, preliminary processing to make RGB images
 - Start white balance analysis
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - 10/11 tour for MIW
 - 10/16 rec com BBQ
- Out of Office
 - Sept 23-Oct 2: IEEE OCEANS / trip to Boston
 - Oct 7: Carson day
 - Oct 8-11: Marine Imaging Workshop
 - Oct 10: medical procedure

Week 41

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Tiva TM4C1290 module- pinout done, finalizing some things
 - Jim is building Baseboard revB. Tiva modules revB built in house were delivered to Thom and work; Indtec is making 20 more
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Reviewed video from 9/23 cruise and made metadata
 - Mob for cruise 10/4, Carson cruise on 10/7
 - MIW poster
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Weekly meeting
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - Sept 23-Oct 2: IEEE OCEANS / trip to Boston
 - Oct 7: Carson day
 - Oct 8-11: Marine Imaging Workshop
 - Oct 10: medical procedure

Week 40

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Planning for MIW poster
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead

- Hosted speaker 10/2/24
- Out of Office
 - Sept 23-Oct 2: IEEE OCEANS / trip to Boston
 - Oct 7: Carson day

Week 39

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - Sept 4-10: sick
 - Sept 16, 18: planned Carson day
 - Sept 23-Oct 2: IEEE OCEANS / trip to Boston

Week 38

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Tiva module sent out, baseboard in final stages
 - Started pinmapping for TM4C1290 replacement
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Tank testing on 9/11 went well, no issues
 - Deployment on 9/16 went well, lots of images
 - Preliminary analysis of images
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Collected SES and trigger trap on 9/18
- DQ2305 - Glider OAE
- Overhead
 - Rec com cookie break (midautumn)
- Out of Office
 - Sept 4-10: sick
 - Sept 16, 18: planned Carson day
 - Sept 23-Oct 2: IEEE OCEANS / trip to Boston

Week 37

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Tiva module and baseboard are almost done with layout

- Working on Tiva module version using TM4C129 alternative, as code for ISUS driver is running into RAM issues
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Everyone else worked hard and we are ready for tank tests
 - Set up MATLAB on SPECTRAL to process images
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - Sept 4-10: sick
 - Sept 16, 18: planned Carson day
 - Sept 23-Oct 2: IEEE OCEANS / trip to Boston

Week 36

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Aadu's visit from UW
 - MSC3 design review and ensuing changes to baseboard and Tiva module - now in layout
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - System testing as it gets built
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - Sept 4-?: out sick
 - Sept 16, 18: planned Carson day
 - Sept 23-Oct 2: potential OCEANS

Week 35

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Modifications to MSC3 Tiva module and baseboard; new regulator circuit
 - MSC3 design review prep
 - Inrush current testing - somewhat concerning
- 901805 - Coastal Biogeochemical Sensing Program
 - Continued testing of current draws
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Tested some LED pucks, 2 out of 6 had issues
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE

- Overhead
- Out of Office
 - Sept 16: planned Carson day
 - Sept 23-Oct 2: potential OCEANS

Week 34

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Timing measurements on MSC3 startup and shutdown
 - Convo w/ Dana Swift at UW, subsequent circuit mods
- 901805 - Coastal Biogeochemical Sensing Program
 - Continued testing of current draws
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Further testing and enhancements of code; implemented LED flash sequence
 - Got images off of camera software, preliminary data processing in MATLAB
 - Wrote instructions sheet for running system on desktop
 - Spent awhile trying to get second controller to work, but it is broken.
 - Testing LED pucks as they are made
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office

Week 33

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Various circuit fixes and modifications to MSC3 Tiva module and baseboard
 - Kicked off 40 mcaps and 2 baseboards
- 901805 - Coastal Biogeochemical Sensing Program
 - Power measurements on entire suite of sensors using Yokogawa
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Pressured tested UV tester puck- did not turn yellow even with current under pressure. Swapping UV LEDs on 12 pucks.
 - Camera to controller connection set up, tested, and troubleshot (using camera software). Now works with a few small issues
 - Set up desktop computer with necessary software
 - Wiring diagrams
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office

Week 32

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - pH measurements with MSC3 are working after various code fixes
 - Coin cell and main battery power consumption tests
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Code updated to incorporate camera, camera connector ordered
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - July 10 - Aug 5: regularly out of office

Week 31

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Troubleshooting on MSC3. Issue with comms while plugged into baseboard traced to strange behavior of reset, disappeared after various troubleshooting measures
 - Testing pH comms with MSC3. Hardware is built, need to update code
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Code tested and functional for controlling jbox and other basic controller functions
 - UDP working for ethernet comms with controller; code updated to pass through commands over UDP. Working on final troubleshooting
 - UV tester LED puck assembled, spectra measured
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - July 10 - Aug 5: regularly out of office

Week 30

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Taking over TIVA module from Thom while he's gone. Thom fixed I2C problem in code. Next hangup in init traced to bad grounding of oscillator (schematic copy-paste error). Next to tackle is hangup during hibernation
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory

- Hacked a connector for JTAG. With help from Paul and Rich, uploaded a bootloader and was able to upload code
 - Two controller boards have different issues related to power control of camera
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - MEtech interviews
- Out of Office
 - July 10 - Aug 5: regularly out of office

Week 29

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Troubleshooting MSC3 Tiva module. Previous connector was mirrored. Inability to load code traced to watchdog, fixed with some jumpers
 - Soldered FRAM boards for Thom and worked out connections, but board is having I2C issues
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Troubleshooting power on second jbox board; after some back and forth, it now also works, though unclear why (same as first board)
 - Test of jbox with 10 pucks connected. One puck had LEDs always on, traced to a bad solder joint
 - Working out mods on controller board to allow stacking
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office

Week 28

- 300078 - DMO Support - AUV
- 901217 - Chemical Sensors
 - Troubleshooting MSC3 baseboard - faulty connections on load switches
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Continued troubleshooting of puck board using logic analyzer, several possibly related issues identified. Some issues seem related to quirks of the demultiplexer
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Proposals
- Out of Office

Week 27

- 300078 - DMO Support - AUV
 - Erik's Dorado meeting
- 901217 - Chemical Sensors
 - Minor assistance for Thom in setting up MSC3
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Board turns on (not sure what has changed) but puck behavior erratic
 - Tests with new optopolymer target; made new color filter, quantified intensities from lab multispec, spectrometer tests, compiled into graphs
 - Characterized spectral shift in pressure treated 370nm LED
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Work on proposals
- Out of Office

Week 26

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Spectrometer tests with color target
 - Jbox board troubleshooting - mux behavior is unexpected but ok, troubleshooting continues
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Deployed last Thursday
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - June 20: at sea w/ SES

Week 25

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Solidworks model of Nanofet2 layout previously discussed with Yui - does not work
 - Discussions of circuit ideas w/ Thom
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Made color target and ran tests with benchtop system (Spectralon vs Teflon, and color targets)
 - Set up electronics for puck pressure test, ran test w/ Aaron
 - Testing of jbox board - various circuit issues

- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Helping with prep for June 20 deployment
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - June 20: at sea w/ SES

Week 24

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Discussions and planning re: Nanofet v2
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Picked colors for target
 - Circuit and code to test jbox board
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Working on proposal
- Out of Office

Week 23

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Troubleshooting new mini ISUS stacks, got them working
 - Started mini ISUS baseboard
 - Started planning for Nanofet v2
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Cleaned up bitbucket repos and readme files
 - Boards are here, given to Jose for soldering
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Bike to work day (organize/lead)
 - Read a paper re: ADVs on gliders, in prep for proposal
- Out of Office

Week 22

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Working on presentation / documentation of all sensor boards, for lab meeting next week
 - Setup and wiring harnesses for mini ISUS FPGA board programming and comms

- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Code for serial command interface communications with new boards
 - Discussions and ordering of targets for imaging
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office

Week 21

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Ongoing modifications and updates to MSC3 baseboard and TIVA modules
 - Circuit analysis for Dura board checkout procedure in Chem Sensor lab
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Circuit boards sent out for fab, back and forth re: various issues
 - Reviewing some existing code
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Weekly meeting
- DQ2305 - Glider OAE
- Overhead
 - Abstract and presentation
- Out of Office
 - May 3-15: Taiwan

Week 20

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - May 3-15: Taiwan

Week 19

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office

- May 3-15: Taiwan

Week 18

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Ongoing work on MSC3 baseboard and Tiva module schematics, coordinating with Thom
 - Power measurements on Fiberlight
 - Lioncaps and NC Nanofets sent out for assembly (plus more Nanofet circuit boards)
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Jbox and Controller PCBs sent out to PCBway for fab
 - Various small tasks (generate PCB model, code discussion, send Steve some data processing stuff)
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Documenting and helping Paul's efforts to install updated controller, debubble chamber, swap battery from MARS config to standalone config
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - May 3-15: Taiwan

Week 17

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Troubleshooting on "bad" MBARI digital board: based on logic analyzer, data coming from analog board is correct, scrambled somewhere on digital board. Code seems to be correct. Second board tested by Ben/Mari and works fine
 - Worked with Jose to coordinate assembly of new MBARI digital boards
 - Reviewed Chad's updates to the MUXer board
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Fixes and edits to board schematics following layout
 - Continue implementing code
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Started fixing up SES with Paul and Rich; video documenting process
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - May 3-15: Taiwan

Week 16

- 300078 - DMO Support - AUV

- 901805 - Coastal Biogeochemical Sensing Program
 - Continue troubleshooting analog and digital boards for ISUS
 - Working with Jose for production of various boards (MBARI MMS digital, NC-nanofet, Lionfet, Nanofet, etc)
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Code for controlling jbox
 - Edits to jbox schematic to address issues identified while writing code
 - Work w/ Jose on board layouts
 - Cable/harness diagram for strobe pucks
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - May 3-15: Taiwan

Week 15

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Finished Thom's work figuring out programming for MBARI digital boards (for ISUS spectrometer) and confirmed working
 - Troubleshooting on MBARI analog boards (for ISUS spectrometer), various scoping / circuit analysis and traced issue to potentiometer tweaking
 - Interface with Bill Keeler (contractor) for PSOC boards
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Discussion with Paul re: how to set up board files in code
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Discussion re: eddy covariance on LRAUV
- Out of Office
 - May 3-15: Taiwan

Week 14

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Picked up some boards at Indtec; probing and troubleshooting Analog MMS board
 - Started reorganizing MSC2 into MSC3
 - Bias battery measurements for lioncap, and update schematics for lioncap and NC-nanofet for new I_DS
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - ROV firmware moved to bitbucket; board json

- Read camera documentation and updated controller schematic to add extra lines for camera output and iso ground
 - Checked two new LED pucks delivered by Jim; some soldering issues, resolved and passed on to Aaron
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Hosted speaker on Wed/Thurs last week
- Out of Office
 - May 3-15: Taiwan

Week 13

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - mpHox - MSC2 prototype wiring harness specified; made by EEtechs
 - Troubleshoot mpHox rB setup (watchdog caused problems with JTAG); set up and delivered to Thom
 - Helping Thom investigate methods to program FPGA configurator EEPROM on MMS digital board
 - Set up NC-nanofet and Lioncap, prelim checks and delivered to Johnson lab to test
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Finished updating boards, sent out for layout
 - Ported previous code to bitbucket
 - Starting to write ROV firmware
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Host speaker 3/27
- Out of Office
 - May 3-15: Taiwan

Week 12

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Chasing down MMS digital Cronin board files, set up for production
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Continuing to update boards and make mods
 - Strobe puck rB sent for assembly
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Pie Day

- Setting up speaker meetings
- Out of Office
 - March 15, 19-20: out of office
 - May 3-15: Taiwan

Week 11

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Various meetings
 - Help Thom with FPGA programming - cable mapping
 - mpHox - MSC cable mapping
 - List of parts to stock up on and their costs
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Continue fixing up schematic
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Weekly meeting
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - March 13-22: regularly out of office in mornings
 - May 3-15: Taiwan

Week 10

- 300078 - DMO Support - AUV
 - Sat in on meeting re: updated electronics
- 901805 - Coastal Biogeochemical Sensing Program
 - Continued forensics, including visit to Indtec, especially focusing on different versions of digital and analog boards within spectrometer for ISUS
 - Various planning meetings
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Making some changes to schematic based on design review
 - Had Kevin set up DISCO project in bitbucket
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - March 4-5: out of office
 - May 3-15: Taiwan

Week 9

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program

- mpHox revB sent out for fab, Jose ordering parts
 - Discussions and information gathering re: MSC
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Finished troubleshooting pucks (half the LEDs have flipped pinout)
 - Started setting up and organizing software environment
 - Electronics design review
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - May 3-15: Taiwan

Week 8

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Working with Jose on layout for mpHox revB
 - Evaluation of status of MSC boards
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Testing and troubleshooting of pucks. Got transistor pinout wrong (fixed), half the LEDs are not turning on
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - May 3-15: Taiwan

Week 7

- 300078 - DMO Support - AUV
 - Met with Jenny Paduan and Dave Caress for more project background
- 901805 - Coastal Biogeochemical Sensing Program
 - Discussions with Yui, Jose, and Yui/Thom re: mpHox revB; making a few changes and then should be ready for layout
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Building circuit and writing code to test pucks
 - Wrote code for stacked tiffs for multispec, tested on optical target
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
 - Rec comm: helped with chili cookoff, hosted Lunar New Year cookie break, and set up ledger for 2024
- Out of Office
 - May 3-15: Taiwan

Week 6

- 300078 - DMO Support - AUV
 - Met with Erik and Alana to discuss project; initial googling
- 901805 - Coastal Biogeochemical Sensing Program
 - Made changes to schematic for mpHox revB, just waiting on some connectors for testing
 - Reviewed Jose's layout for NC-Nanofet, which is now ready to be sent out
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Divided control board into two boards. Solidworks mockup incorporated/approved by Aaron. Split nets on schematic, added connectors, reorganized schematic
 - Materials sent out for design review
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - May 3-15: Taiwan

Week 5

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Evaluating mphox integrations
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Finished controller board, prepping materials for design review
 - Discussed w/ Aaron and need to split controller board into two
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office
 - May 3-15: Taiwan

Week 4

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Making n-channel isfet boards: small changes to Lioncap and sent off for fab; created NC-Nanofet and made changes. Explored diode idea
 - Discussions w/ Yui re: next gen Nanofet and next steps
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Finished fixing jbox board, back to controller board
 - Making model of controller board mockup to help with internal chassis design
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead

- Helped spot for UAV project
- Out of Office
 - May 3-15: Taiwan

Week 3

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working on controller board and fixing jbox board
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office

Week 2

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
 - Retested Nanofet B002008 and high bias current draw problem has mysteriously disappeared
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Basic ethernet comms working between Maduino (Arduino) and computer (Python)
 - Progress on controller board - adapting from SINKER controller
 - More minor fixes to jbox
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office

Week 1

- 300078 - DMO Support - AUV
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Experimenting with Maduino
 - Small edits to clean up jbox board
- 902305 - Event Detection Using the Sedimentation Event Sensor
- DQ2305 - Glider OAE
- Overhead
- Out of Office