

Irene Hu

Week 52

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Continued work on alkalinity flowcell. Latest version has been tapped for Durafet, alignment is more off than expected and may iterate. Contemplating a lid.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Bells and whistles to GUI so it can handle closing and opening window while system has already been in use. Required redoing some of back end.
 - Attempt to normalize reflectance image to Spectrolon blanks, still ongoing
 - Troubleshooting an unusually high temp coefficient in LED current that appeared during blank tests. Traced to slightly incorrect use of DAC
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Biweekly planning meeting
- Overhead
- Out of Office
 - Dec 25 - Jan 2: vacation

Week 51

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Alkalinity: Iterating on 3D printed parts for floating anode design
 - Getting boards ready for alkalinity tests
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Tested GUI with full setup including camera, some bug fixes
 - Measured some blank targets for white balance / normalization
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Dec 25 - Jan 2: vacation

Week 50

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program

- Continued work on alkalinity sensor
 - Troubleshooting w/ contractor Jim's help to fix filesystem issues w/ mphox rB
 - Data processing to try to extract inflection point, found faster data needs block average so might make sense just to measure slower
 - Troubleshooting and calcs on current source for 2-3% error. Has to do with Howland pump nonideal behavior, will do some tests once a more precise lab setup is ready to determine how much of a problem it is
 - Designed some parts in Solidworks to hold floating anode design
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Assembled some photos / videos for engineering update
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Dec 25 - Jan 2: vacation

Week 49

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Minor help with TIP can
- 901805 - Coastal Biogeochemical Sensing Program
 - Continued work on alkalinity sensor. Code updates to speed up. Collect data and process to detect inflection points, but setup is imprecise so inflection points don't always show up. Code update for file write but FatFS seems broken. New rev B board works well but shows a consistent 2-3% error in current generation, trying to troubleshoot
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Dec 25 - Jan 2: vacation

Week 48

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Nov 24-28: vacation

Week 47

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Review nanofet 2 board design
 - Ordered some things for alkalinity experiment
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - GUI worked surprisingly well with controller over UDP comms; various troubleshooting, especially related to motor
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Rec com budget- finally got Paid Detail to compare transactions
- Out of Office
 - Nov 24-28: vacation

Week 46

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - More bells and whistles added to GUI, ready for testing with actual controller
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Carson recovery on Monday 11/10; all recovered successfully, but TT carousel was stuck
- Overhead
 - Rec com BBQ 11/12/25
- Out of Office
 - Nov 24-28: vacation

Week 45

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Alkalinity test set up in lab, produced a titration curve after some troubleshooting
 - Discussed Nanofet v2 w/ Brent and Yui, looked over Brent's design
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Continued work on Python GUI adding comms text log, environmental sensing, various widgets
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Nov 5-6: WFH / vacation

Week 44

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - ISUS data processing from ROV dive
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Python GUI for the coral hugger
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Nov 5-6: WFH / vacation

Week 43

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Continual monitoring of mini ISUS dev - deployed on Monday on ROV w/ DISCO dive
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Deployment of coral hugger on Monday went well
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Nov 5-6: WFH / vacation

Week 42

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Simulated new and old circuits with pspice, updated circuit for improved current measurement
 - Updated alkalinity code to handle pumping
 - Continued support for mini ISUS tests
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Test of hugger with Ventana on Friday
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Rec com meeting and lots of charge processing
- Out of Office
 - Nov 5-6: WFH / vacation

Week 41

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Chasing down inaccuracies in reported current of alkalinity circuit in ranges we care about, may need to switch circuit design
 - Tests of mini ISUS in seawater lab chilled line: show some temperature effects in raw data, but processed nitrate seems ok
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Helped with various tests of assembled system in air and tub, things look pretty good
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Oct 7: dr appt
 - Nov 5-6: WFH / vacation

Week 40

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Reorg'ed code for mpHOx revB, wrote and tested alkalinity + pH code
 - After coordinating cables with Joe, mini ISUS 001 was deployed in the test tank. Data looked ok, still too much heating.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Help Paul with chassis wiring and various troubleshooting after wiring, updated documentation
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Oct 7: dr appt
 - Nov 5-6: WFH / vacation

Week 39

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Working version of alkalinity code; electronics confirmed to work, now cleaning up code
 - Mini ISUS assembled and uploaded with new fast sampling code. Trial run of 20 min had too much heating inside, will try again in test tank
- 901904 - Deep-Sea Coral-Sponge Community Observatory

- Motor controller works, finished troubleshooting non-working channels, UDP comms, etc
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Meeting
- Overhead
- Out of Office
 - Oct 7: dr appt

Week 38

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - First draft code for alkalinity sensor, after discussing new code structure with Jim Davis. Doesn't work yet.
 - First draft code for ISUS fast sampling, for mini ISUS deployment on CTD
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Troubleshooting for various problems including motor controller
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Sept 1 - 5: vacation

Week 37

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Check in on mini ISUS- one fiber is a little too short
 - Mphox rB broke, waiting for rC to test alk board
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Comms to motor controller from cpu via RS485 board works; made various cables
 - Code for motor controller
 - System diagram updates
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Rec comm meeting
 - MBuddy training session
- Out of Office
 - Sept 1 - 5: vacation

Week 36

- 701160 - Year 5 Sensors

- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Updated code for alkalinity and fixed some compile errors; trying to debug an mpHox rB for testing
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Troubleshooting connector issues
 - Dual-controller comms and coordination seems to be working
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Sept 1 - 5: vacation

Week 35

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Wrapped up PTC experiments, recommend using battery power
- 901805 - Coastal Biogeochemical Sensing Program
 - OSM abstract
 - Alkalinity board received, working on code integration with updated mpHOx code
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Various whack-a-mole troubleshooting for two board stacks
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Trigger Trap deployed at MARS after a last minute push with modem arriving in the nick of time
- Overhead
- Out of Office
 - Sept 1 - 5: vacation

Week 34

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Mini ISUS prep and planning, wiring diagram
 - Continue w/ PTC experiments
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Troubleshooting controller-controller comms; software and hardware issues
 - Wiring diagram
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Modem drama, but hopefully it arrives back from Teledyne in the nick of time.
- Overhead
- Out of Office
 - Aug 21: Carson day
 - Sept 1 - 5: vacation

Week 33

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Continuing experiments with noise on PTC
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - RS485 interface board sent out for fab
 - Troubleshooting controller-to-controller comms
 - Started work on wiring diagrams
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Aug 12: WFH
 - Aug 15: out of office, moving

Week 32

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Ongoing tests to track down pH noise with MSC3 in PTC
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - RS485 interface board almost done in Kicad
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Aug 5: Bike to work
- Out of Office
 - Aug 12: WFH
 - Aug 11-15: out one day TBD to move

Week 31

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Trying to troubleshoot MSC3 noise in PTC chamber
- 901805 - Coastal Biogeochemical Sensing Program
 - mALK board sent out, working with Jose to update mphox revC
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working on small RS485 interface board for motor driver
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Bike to Work emails etc
- Out of Office
 - July 21 - 25: intermittently out of office due to flood at home, need to move

- Aug 1: WFH

Week 30

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Helping to troubleshoot noise issues with pH for MSC3
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Clean up after last week's deployment, follow up with Benthos
 - Finished updating schematics and turnaround howto guide
- Overhead
- Out of Office
 - July 21 - 25: intermittently out of office due to flood at home, need to move

Week 29

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Checked over phAt board layout and approved!
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Help with prep for deployment; final decision on trigger trap is not to send it down with the directional modem, due to lack of confidence
 - Deployment of SES at MARS on July 16
- Overhead
- Out of Office
 - July 15: drs appt
 - July 16: Carson

Week 28

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Acoustic modem sent back to Benthos because receiver doesn't work
 - SIIM can finished refurbishment, tested with power supply and works
 - Converted battery sphere to MARS mode, tested with power supply and seems to work
- Overhead
- Out of Office

- 6/27-7/4: vacation

Week 27

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Trained Luke and Josh to program chips for MMS boards
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Turnaround SES for MARS - modifying SIIM can for new MARS without 48V
 - Troubleshooting modem
- Overhead
- Out of Office
 - 6/27-7/4: vacation

Week 26

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - BME280 errors on mini ISUS baseboard traced to soldering issues. Baseboard checks out again, succeeded in running overnight scans
 - Pushing through mini ISUS parts orders
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Picked up SES and TT on Monday
 - Start troubleshooting TT modem
 - Start SES conversion to MARS, beginning with SIIM can conversion
- Overhead
 - Continued measurements and data processing for ORP sensor
- Out of Office
 - 6/27-7/4: vacation

Week 25

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Working with Joe on getting lamp attached to mini ISUS baseboard for first prototype build
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Compiling notes and rewatching videos to put together turnaround document; various handoffs from Paul

- Overhead
 - Working with Erik on ORP sensor for Dorados. Connected sensor to modified mcap for some preliminary measurements
 - Random help with UAVs
- Out of Office
 - 6/27-7/4: vacation

Week 24

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Help troubleshooting MSC3 - broken spec, broken mcap, etc
- 901805 - Coastal Biogeochemical Sensing Program
 - Mini ISUS build BOM
 - Start organizing to order boards for mini ISUS, mods as needed
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Started organizing notes for "manual", updated battery sphere - MARS schematic for Sense wire issue
- Overhead
 - Helping to fly drones
- Out of Office

Week 23

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - MSC3 bug fix: traced to print buffer overload with high spec readout (more digits)
- 901805 - Coastal Biogeochemical Sensing Program
 - Finished first draft of alkalinity board
 - Breadboard test of negative current source, worked
 - First draft of code for ADC and DAC
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - After extensive troubleshooting, PWM-based linear servo works; issue with library not working well with 8-bit timers, switched ports to 16-bit
 - Looked into RS485 for external motor
- 902305 - Event Detection Using the Sedimentation Event Sensor
 - Meeting
- Overhead
- Out of Office

Week 22

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors

- Random support, e.g. measuring timing of different processes, current measurements, troubleshooting broken boards
- 901805 - Coastal Biogeochemical Sensing Program
 - Alkalinity board: tests with electrodes in NaCl water, finished board design
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Tests with internal linear actuator; PWM is not working
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office

Week 21

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Help with code troubleshooting for MSC3's final push
 - Power, bootup time, etc measurements for MSC3
- 901805 - Coastal Biogeochemical Sensing Program
 - Presentation on electronics for lab meeting
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Code for UDP comms (requires some restructuring of other code)
 - Testing controller-controller comms, servo motor PWM code
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - 5/12/25: Dr Appt

Week 20

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Various coding tasks and troubleshooting handed off by Thom
 - Various power and timing measurements
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - SWIR multispec front light working with camera, minor troubleshooting
 - Code for coordination with backlight
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - 5/13/25: Dr Appt

Week 19

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors

- Assisting with various troubleshooting and coding tasks
- Circuitry updates to address high latent power draw, bad EOL battery behavior
- Battery drawdown and power consumption tests
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Testing SWIR software with controller; after minor troubleshooting, seems to work
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - 5/13/25: Dr Appt

Week 18

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office

Week 17

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office

Week 16

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Chasing down MSC3 behavior at low voltage with a current limit / low voltage with source output resistance
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office

Week 15

- 701160 - Year 5 Sensors

- 901217 - Chemical Sensors
 - Chasing through problem with MSC3 baseboard powered at 8V with current limit (battery end of life behavior). Current draw from starting up deuterium lamp affects system in a more fatal way than it did for MSC1.
- 901805 - Coastal Biogeochemical Sensing Program
 - Latest issues with mini ISUS prototype traced to using unprogrammed spec boards in assembly. Fixed this and finally got a scan! (Scan has a blip)
 - Worked through process for programming spec digital boards. Worked with Ben a little on MSC3 code he needs for tuning analog boards.
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - April 10: dr appt, WFH

Week 14

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
 - Support for code development
- 901805 - Coastal Biogeochemical Sensing Program
 - Tested breadboard alk circuit using resistors for load, plotted data
 - Made connectors for mini ISUS; testing and troubleshooting. 50pin header is reversed and one baseboard seems to have assembly errors
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Added more features to SWIR code including linear actuator (PWM based), current measurement (INA209), get system data
 - Commands list and list of tests
 - System diagram
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - OBS research specialist interviews
- Out of Office
 - April 10: dr appt, WFH

Week 13

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Prototyped alk circuit on breadboard
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working on code for SWIR camera
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead

- OBS research specialist interviews
- Out of Office

Week 12

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
 - Troubleshooting SPI bus issues for pH measurements with 1290 processor - CS had been reassigned from GPIO to using uP's SPI functionality, causing timing and/or other issues
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Continue writing code
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Missed my own pie event =(
- Out of Office
 - Mar 14, 17: out sick

Week 11

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
 - Tiva1290 rB modules received, troubleshooting programming. JTAG header is wrong and one net disconnected
- 901805 - Coastal Biogeochemical Sensing Program
 - Mini ISUS fit test reveals backwards connector
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Writing code
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Finally moved offices
- Out of Office
 - Feb 26 - Mar 9: vacation
 - Mar 10: out sick
 - Mar 13: WFH, doctor's appt

Week 10

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead

- Out of Office
 - Feb 26 - Mar 9: vacation

Week 9

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
 - Outline of alkalinity circuit, ordered things for breadboard experiment
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Working on code
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Chad's design review
 - Rec com meeting
- Out of Office
 - Feb 26 - Mar 9: vacation

Week 8

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
 - Tiva1290 rB sent out to Indtec
- 901805 - Coastal Biogeochemical Sensing Program
 - Discussed alk sensor with Ellen during her visit, handed her boards
 - Started on alk circuit
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Feb 26 - Mar 9: vacation

Week 7

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
 - Tiva1290 rB modules complete and sent out for quotes; looked at interference w/ baseboard rD; various meetings and decisions on which versions of baseboard to go forward with, when
- 901805 - Coastal Biogeochemical Sensing Program
 - Mini ISUS baseboard finished and sent out for quotes
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Trying to order some LEDs using new accounting system
 - Some discussions w/ Paul re: circuits and code; set up new code on bitbucket
- 902305 - Event Detection Using the Sedimentation Event Sensor

- Reviewed wiper situation based on photos
- Overhead
- Out of Office
 - Feb 10: WFH
 - Feb 26 - Mar 9: vacation

Week 6

- 701160 - Year 4 Sensors
 - Minor troubleshooting for broken controller
- 901217 - Chemical Sensors
 - Some updates to next Tiva129 module, eg fix I2C issue noticed by contractor
- 901805 - Coastal Biogeochemical Sensing Program
 - Non-iso nano is ordered and on its way
 - Finally got mini lamp info after Photonics West meetup. Updated circuit for mini ISUS baseboard, Jose went back and forth with Jon re: layout
 - Continue trying to understand alkalinity circuit
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Researched some more LEDs
 - Code planning and other discussions w/ Paul
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Feb 10: WFH
 - Feb 26 - Mar 9: vacation

Week 5

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
 - Discussions and some minor updates to next Tiva module
 - Bitbucket+VSCode tutorial to get Jess's MSC Sampler code onto Bitbucket
- 901805 - Coastal Biogeochemical Sensing Program
 - Coordinated w/ Jon about Mini-ISUS layout specs
 - Reviewed more resumes
 - KAUST call
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Circuit review w/ Paul
 - Compile more LED info, donut hole LED pattern
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - LNY cookie break
- Out of Office
 - Jan 28: Photonics West
 - Jan 30: WFH

- Feb 26 - Mar 9: vacation

Week 4

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
 - RevD baseboards received from Indtec last Wednesday. Quick troubleshooting on extra current draw, traced to a rotated part
- 901805 - Coastal Biogeochemical Sensing Program
 - Trying to get together boards and package to send to Ellen Briggs at Scripps for Alkalinity sensor; troubleshooting some issues with bad signals (cable was backwards)
 - Working w/ Jose on non isolated Nanofet board
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - LED ring mockups to try to cram as many LEDs as possible in a symmetrical way
 - Graphed a lot of LED and other spectra to help pick LEDs
 - Reviewed Paul's circuits
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Procured lots of snacks for Lunar New Year cookie break
- Out of Office
 - 1/17: MBARI forced to WFH due to fire; 1/22, possibly 1/23: WFH
 - Feb 26 - Mar 9: vacation

Week 3

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
 - Planning for new baseboard with holes matching new toolsled, and new module with coordinated holes that also fits mini ISUS
 - Random help for Thom in troubleshooting code, as needed
- 901805 - Coastal Biogeochemical Sensing Program
 - Reviewed alk circuit again, talked to Ellen Briggs (Scripps), reviewed materials she sent
 - Working on getting lioncap and NC-Nanofet to Ellen- need to check out boards
 - MiniISUS: trying to figure out what's going on with lamp (model in hand doesn't match documentation in hand) before can proceed
- 901904 - Deep-Sea Coral-Sponge Community Observatory
 - Discussion meeting and some follow up tasks in coordination with Paul
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Rec com budget
- Out of Office
 - Feb 26 - Mar 9: vacation

Week 2

- 701160 - Year 4 Sensors
- 901217 - Chemical Sensors
 - Troubleshooting issue with revC baseboard vs revB, traced to BME280 addressing in code
 - MSC3 baseboard revD is being made by Indtec
 - Look into mounting holes issues, will be updated for baseboard revE / Tiva1290 module revB
 - Getting Jess's Python code working with MSC3 output
- 901805 - Coastal Biogeochemical Sensing Program
 - Reviewed alkalinity sensor documentation
 - Mini ISUS baseboard recreated as modification of MSC3 baseboard revD
 - Interview for research specialist position
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
 - Closed out rec com budget for 2024 and set up spreadsheets for 2025. Made a draft budget.
- Out of Office

Week 1

- 701160 - Year 5 Sensors
- 901217 - Chemical Sensors
- 901805 - Coastal Biogeochemical Sensing Program
- 901904 - Deep-Sea Coral-Sponge Community Observatory
- 902305 - Event Detection Using the Sedimentation Event Sensor
- Overhead
- Out of Office
 - Dec 25 - Jan 2: vacation