

Rich Henthorn Sorted By Project

300078 - DMO Support - AUV

901221 - Midwater Time Series

- Spoke with Rob Sherlock about i2MAP 4K camera integration (Week 42)
- 4K camera connected to 2K recorder should not require any CARL updates (Week 42)
- 4K recorder will require some additional switching and probably commands (Week 42)
- i2MAP 4K video capture (Week 43)

901405 - Wave-Energy Conversion for Oceanographic Applications

- Set up Ubuntu laptop with MBC applications for component testing (Week 47)

901904 - Deep-Sea Coral-Sponge Community Observatory

902305 - Event Detection Using the Sedimentation Event Sensor

- A few more changes and fixes (Week 1)
- Project meeting, visit test site March 10 (Week 3)
- Attempted comms with SES and Trigger Trap (Week 11)
- SES status is consistent with expected (Week 11)
- Trigger trap modem seems dead and no samples taken (Week 11)
- Acoustic modem consolidation (Week 14)
- Building spare MVC (Week 16)
- Proposal abstract (Week 19)
- Spare controller dev (Week 20)
- Recovery prep (Week 25)
- Reviewing full SES dataset and logs from 6 month deployment (Week 27)
- Some issue with interval between images especially in the later stages of the deployment (Week 27)
- Suspect the data backup function causing the power control board to timeout (Week 27)
- Developing a more efficient data backup scheme (Week 27)
- Preparing for MARS deployment scheduled for next Wednesday (Week 28)
- Setting network IPs and testing SIIM can (Week 28)
- SES MARS deployment prep and test (Week 29)
- SES MARS deployment (Week 29)
- Monitoring SES performance on MARS (Week 30)
- Controller timeout issue seems to have been addressed (Week 30)
- Monitoring MARS deployment (Week 32)

- Image processing test tools (Week 32)
- Prep Trigger Trap for deployment in 2 weeks (Week 32)
- More SES data analysis (Week 33)
- Active time of year for sediment transfer (Week 33)
- Setting up trigger trap for possible deployment next week (Week 33)
- Preparing for Trigger Trap deployment to MARS (Week 34)
- Acoustic modem repairs (Week 34)
- SES MARS data (Week 34)
- Good deployment of Trigger Trap last Thursday (Week 35)
- Successful test of trigger from SES on MARS to Trigger Trap (Week 35)
- Reviewing event detection algorithms and scripts (Week 35)
- Updated SES mission with new event trigger parameters (Week 36)
- Monitoring SES deployment (Week 36)
- Ongoing monitoring of SES on MARS (Week 39)
- Observing plenty of events (Week 39)
- System working well (Week 39)
- Scoping new behaviors for efficiency (Week 40)
- Analyzing automatic threshold adjustments (Week 40)
- Addressed issue that prevents modem communication (Week 40)
- Recent SES data analysis (Week 41)
- Post SES recovery plan (Week 41)
- Latest SES mission completed, started another to finish out the deployment (Week 42)
- Analyzing data and trigger events (Week 42)
- Recovery next month, working on maintenance list (Week 42)
- Data pull from SES recent deployment (Week 43)
- Begin documentation effort (Week 43)
- Recovered SES and Trigger Trap last week (Week 47)
- Offloaded Trigger Trap logs that showed motor control failures (Week 47)
- Begun updates for next deployment scheduled for Apr 2026 (Week 47)
- Numerous updates and fixes to SES control (Week 49)
- Refactoring detection (Week 49)
- Investigated Trigger Trap malfunctions (Week 49)
- Improved variable event trigger system (Week 50)
- Refactor event detection (Week 50)
- Other improvements and fixes (Week 50)
- More fixes and improvements with testing (Week 51)
- Improvements to event detection usability (Week 52)
- Testing updates (Week 52)

902306 - SINKER

- Kickoff meeting and discuss tasks for March deployment (Week 5)
- Maxon motor control interface for microcontroller (Week 8)
- Eavesdropping on EPOS interface to decipher protocol (Week 8)
- SINKER deployment scheduled for March 10 (Week 9)

- Preparing for SINKER integration testing scheduled for next week (Week 9)
- Writing ucon motor actuation app for cleaning (Week 9)
- Viewport cleaning functional (Week 10)
- Testing for deployment next Monday (Week 10)
- Autonomous SINKER deployment (Week 11)
- Some minor refactoring of SINKER motor controllers (Week 14)
- Refactoring code for next test deployment (Week 16)

902401 - Geo-Sense

- Cold room RTC clock drift test (4 C) (Week 1)
- Results show significant drift (10x) compared to room temp (Week 1)
- Not really surprising (Week 1)
- Team received our customized Sintela ONYX nano DAS last week (Week 2)
- Laser safety session (Week 2)
- Sintela hands-on (Week 2)
- Set up log player station in Micallef lab (Docker+Sintela PlatformManager+image) (Week 3)
- Training session for GeoSense DAS (Week 3)
- Final config prep before Friday deployment (Week 4)
- DAS hardware shorted out Friday morning before leaving the dock (Week 5)
- Instrument rebuilt over the weekend - Bravo! (Week 5)
- Deployed slightly degraded DAS on Tuesday (Week 5)
- Discussing recovery options (Week 9)
- Deployment data (Week 10)
- (Week 13)
- Lab Housekeeping (Week 16)
- Ext4 raid drive reader (Week 19)
- Log file access via Windows (Week 20)
- Alternative log file access methods (Week 20)
- Norway deployment prep and support (Week 25)
- Helping preparations for Norway deployment (Week 28)
- Prepping for Norway experiment (Week 29)
- Data log extraction and conversion (Week 29)
- NTP server (Week 29)
- Norway deployment support (Week 30)
- Checking on data drives in DAS unit (Week 32)
- RAID drive enumeration issue (Week 35)
- Clock drift issue (Week 35)
- Upgrades to lab Linux workstation (Week 36)
- DAS unit clock drift characterization (Week 39)
- Repair RAID drive (Week 39)
- Finished DAS controller clock drift analysis (Week 40)
- Less than 1 PPM in most realistic test case (< 100 ms a day) (Week 40)
- RAID drive enumeration (Week 41)

- Team is running cold room test of DAS unit in Bldg G (Week 52)
- Recording time drift over the holiday weekend (Week 52)

902405 - Precision Control Technologies

- Successful integration of TRN into LRAUV navigation system (Week 2)
- Finishing touches on latest LRAUV TRN updates (Week 3)
- Merging updates (Week 4)
- LRAUV close-the-loop code merge (Week 11)
- Completed merge of TRN updates for LRAUV including closing the loop during navigation (Week 13)
- Reviewing TRN documentation (Week 13)
- LRAUV TRN (LRTRN) documentation (Week 14)
- Alternative filters (Week 14)
- TRN documentation (Week 15)
- LRAUV TRN doc (Week 16)
- "Hello. TRN" application (Week 39)
- Working on "Hello, TRN" application (Week 40)
- Hello, TRN app (Week 41)
- Carson day with LASS system intro to Ventana precision control ops (Week 41)

Out of Office

- Jan 1 - Holiday
- Jan 12 to 16 - Vacation
- Jan 13 - 14: Vacation
- Feb 3 - 6: WFH and Vacation
- Mar 3 - 6: WFH and Vacation
- Mar 31 - Apr 3: WFH and Vacation
- Feb 3 - 6: WFH and PTO
- Mar 3 - 6: WFH and PTO
- Mar 31 - Apr 3: WFH and PTO
- Feb 17 - 19: WFH and PTO
- Mar 16 - 19: WFH and PTO
- Mar 10 - On Carson for SINKER deployment near MARS node
- Mar 31 - Apr 2: WFH
- Apr 3 - Vacation
- Apr 21 - May 1: WFH and FLA
- Apr 21 - May 1: WFH and sick time, email and phone OK
- May 19 - May 29: Vacation
- Occasional sick days Apr 21 to May 12
- May 19 - May 29: Vacation, email contact
- June 19 - Rachel Carson
- June 30 - July 7: Vacation, email contact
- Aug 7 - Aug 11: Vacation, email contact

- July 16: Rachel Carson MARS day
- Aug 7 and Aug 11: Vacation, email contact
- Aug 7 and Aug 11: Vacation
- Sept 2 - 4: WFH with phone, email, network access
- Mon Sept 29 and Wed Oct 1: WFH
- Wed Oct 8: Rachel Carson
- Thu Oct 9: WFH
- Mon Oct 20 - Tue Oct 21: Sick leave
- Fri Oct 24 - Wed Oct 29: Vacation
- Mon Nov 10 - SES recovery from Carson
- Dec 19 - Jan 1: Vacation
- Fri Oct 24 - Wed Oct 29: Vacation (Fri and Wed) and remote work (Mon and Tue)
- Dec 4 - WFH
- Dec 11 - WFH
- Dec 18 - WFH
- Dec 19 - Vacation (previous plans have been postponed TBD)
- Dec 25 - Holiday

Overhead

- Annual review (Week 4)
- Battery fire (Week 4)
- Benthic Rover transfer updates (Week 14)
- Rover external transfer (Week 19)
- Proposal activity (Week 20)
- Rover tech transfer docs (Week 25)
- Rec-Com stuff (Week 29)
- Open House comp time (Week 30)
- Rec-Com (Week 30)
- Rec-Com (Week 32)
- Rec-Com (Week 33)
- Rec-Com (Week 34)
- Rachel Carson cookie break and swag orders (Week 49)
- ReCom stuff (Week 50)
- RC merchandise (Week 51)