

Mike Risi Sorted By Project

200105 - Core Navigation - MDUC

- Tested navproc 2.0 during Rachel Carson maintenance period (Week 3)
- Working on resolving miscellaneous issues that were discovered during testing (Week 3)
- Continuing to fix bugs in navproc 2.0 discovered during the test deployment (Week 5)
- Working with Kevin to deploy navproc 2.0 on Rachel Carson in the last week of March (Week 5)
- Preparing for one more navproc 2.0 test day in February before March deployment (Week 7)
- Fixed Ventana CSP string parsing bug (Week 7)
- Preparing for navproc 2.0 deployment next week (Week 11)
- Prototyping upgrade to navproc configuration files (Week 11)
- Deployed navproc 2.0 during the Rachel Carson maintenance period (Week 14)
- Working on small navproc 2.0 deployment issues (Week 14)
- Completed setup of navproc-rdsn spare machine (Week 15)
- Deployment of navproc 2.0 to Rachel Carson complete (Week 19)
- Preparing to commission navproc on David Packard upon return from shipyard (Week 19)
- Miscellaneous bug fixes (Week 20)
- Started navproc integration on David Packard (Week 20)
- Continuing navproc integration on David Packard (Week 26)
- Worked on input with Kevin for navproc portion of Core Navigation proposal (Week 28)
- Worked with Kevin and Adriana to move navproc-dpkd to new subnet (Week 28)
- Working with Adriana on remote access to navproc-dpkd while Packard is at sea (Week 29)
- Modifying Accupositioner pan and tilt drivers for light booms (Week 29)
- Completed and Accupositioner pan and tilt driver modifications (Week 32)
- System update for Rachel Carson navproc-rdsn. (Week 35)
- Miscellaneous changes to support Doc Ricketts integration. (Week 35)
- Integrating ROV navigation instruments into navproc (Week 43)
- Updates for navproc-rdsn and navproc-dpkd (Week 45)
- General updates of navproc-dpkd (Week 47)
- Working on resolving depth issue with navproc-dpkd (Week 47)
- Fixed some bugs in Ricketts interface processes (Week 50)
- Update of navproc on David Packard after aquarium cruise. (Week 52)
- Fixed issue with auto-start. (Week 52)
- Working on a process to report power status of ROV instruments. (Week 52)
- Wind sensor is up after changes in the signal distribution box, the process needed a few small changes. (Week 52)

300062 - DMO Support - Doc Ricketts

- Meeting with SMD to review scope of work for May ROV integration (Week 11)
- Working on test software for external control interface in preparation for May SMD visit (Week 15)
- Finishing up interface to test external control interface (Week 19)
- Preparing for May 19th SMD visit (Week 19)
- Finished external control interface for testing (Week 20)
- Working on pan and tilt integration (Week 26)
- Finished ROV and CTD winch interface during LARS test cruise on David Packard (Week 28)
- Made some pan tan tilt changes during the cruise, waiting for light bar pan and tilts for final integration (Week 28)
- Working on SMD specification debug util to help verify protocol spec (Week 29)
- Working with Kevin to get ship attitude into navproc for LARS testing (Week 29)
- Coordinating with ROV pilots on testing advance nav interface on SMD visit next week (Week 32)
- Working on proposed additions to MBARI/SMD protocol spec (Week 32)
- Implemented several changes to SMD/MBARI protocol in conjunction with visiting SMD engineer. (Week 35)
- Fixed bug with ROS pan and tilt position updates. (Week 35)
- Worked on light boom configuration with pilots. (Week 35)
- Miscellaneous navproc support of the current Ricketts test dive (Week 38)
- Working on external control interface for November 6th testing at sea (Week 43)
- Tested external control interface in harbor dive (Week 45)
- Working with Drew on remote testing for ROV sea trials (Week 45)
- Pan and tilt work for ROS remount and KPT swap with spare (Week 45)
- Working with Drew on Copilot pan and tilt interface (Week 45)
- Working on updates to provide CTD data to SMD diagnostics screen (Week 47)
- Support of ROV deployments (Week 50)
- Working with Ben B. on CTD pressure issue (Week 50)
- Updated process for \$PMBANP to provide CTD data to SMD control system (Week 50)
- Meeting with Quinn and Drew to discuss 2026 Ricketts support work. (Week 52)
- Setting up pt_control simulation and test environment for developing presets. (Week 52)
- Looking into extending the viewing system to include more camera control. (Week 52)

300070 - DMO Support - Ventana

- Working with Kevin and DJ on 4D Nav heading latency issue (Week 45)
- Working on change to external control interface (Week 50)
- External control interface modifications. (Week 52)

701147 - MARS

- MARS meeting with University of Washington in preparation for MARS delivery. (Week 35)
- Worked with Kent a little bit on MARS node controller engineering stack. (Week 35)

901101 - Seafloor Mapping

- Testing of GOB Ethernet prototype circuit for the new LASS relay and trigger control board stack (Week 3)
- Working on control upgrades for April/June deployment (Week 3)
- Configuring new Linux workstation for TCU to be deployed in April (Week 3)
- LASS AUV scoping study and data budget (Week 5)
- Continuing to document the workstation Loon configuration process (Week 5)
- LASS AUV scoping meetings (Week 7)
- Loon configuration and documentation largely complete (Week 7)
- Getting prototype firmware ready for LASS board (Week 7)
- Starting work on deployed LASS board firmware (Week 11)
- Replaced Euler with Loon in TCU and starting work on LASS prep for April (Week 11)
- Continuing work on new LASS control system (Week 14)
- Starting to implement deployed LASS trigger board firmware (Week 14)
- LASS AUV scoping meetings (Week 14)
- Lidar CCI testing during tank tests (Week 19)
- LASS cruise series on Rachel Carson to test new WiSSL 2.0 Lidar (Week 19)
- LASS AUV scoping meeting (Week 20)
- LASS AUV scoping meeting (Week 26)
- Working on GOB computer board firmware for LASS (Week 26)
- LASAUV proposal review and input (Week 28)
- GOB HIH sensor working, moving on to LASS system board firmware (Week 28)
- Continuing firmware for GOB board (Week 29)
- Working on LASS control system UI updates (Week 29)
- Finishing up board to board communication of LASS GOB stack (Week 32)
- Working on commands for GOB computer board and LASS system board (Week 32)
- Modifying GUI to working with new LASS GOB stack (Week 32)
- GOB and LASS controller firmware changes for October nearly complete (Week 35)
- Working with Chad on UI changes for LASS GOB stack. (Week 35)
- GOB power can stack firmware completed and installed on power can. (Week 38)
- Power can GUI completed and installed on TCU. (Week 38)
- Working on a process to send navigation data to Phins INS using the ixblue standard messaging protocol. (Week 38)
- Finished up and tested process to send navigation data to the new Phins INS (Week 39)
- Making changes to power can GUI (Week 39)
- Switch LASS control over to ventana-ext-infc (Week 39)
- General cruise prep for October 6th cruise series (Week 39)
- Testing LASS changes in test tank (Week 40)

- Preparing for LASS cruise series next week (Week 40)
- LASS deployment cruise series (Week 41)
- LASSAUV scoping meeting (Week 45)
- LASSAUV scoping meetings (Week 47)
- Review of proposed TCU changes (Week 47)
- LAS AUV scoping meetings (Week 50)

902111 - Carbon Flux Ecology

902312 - Seafloor Processes

- LASS AUV scoping meetings (Week 15)
- Continuing work on new LASS control system (Week 15)
- Starting to implement deployed LASS trigger board firmware (Week 15)

902405 - Precision Control Technologies

- Meeting with Steve and Paul R. on mid-water tracking testing for April (Week 3)
- Working on the RovLib framework (Week 5)
- Working with Paul R. on mid-water tracking deployment plan for April (Week 5)
- Working on Ventana interface for mwt-control code (Week 7)
- Working on unit testing for RovLib framework (Week 7)
- Fixed several bugs in the trajectory generator code (Week 7)
- Continuing RovLib development (Week 11)
- Working on midwater tracking code for April cruise (Week 11)
- Testing RovLib Framework in lass-control development (Week 14)
- Working on Ventana interface to midwater tracking control system (Week 14)
- Starting development on new UI for stereo KCF tracker (Week 14)
- Completed Ventana interface to midwater tracking control system (Week 15)
- Testing midwater tracking software with Paul Roberts (Week 15)
- Preparing for midwater tracking cruise next (Week 15)
- More UI development for stereo KCF tracker (Week 15)
- Working Steve Rock to eliminate pitch oscillations on Ventana during midwater tracking (Week 19)
- Working on implementation of filters to eliminate pitch oscillations during midwater tracking (Week 20)
- Working on testing midwater tracking control loop response to frequency sweep, still trying to eliminate the pitch oscillation (Week 26)
- Working with Steve Rock mid-water tracking control loop testing (Week 28)
- Working on mid-water tracking controller to dampen pitch oscillation (Week 40)
- Continuing work on mid-water tracking controller (Week 41)
- Testing mid-water tracking controller changes for November 5th cruise (Week 43)
- Tested software on the boat during the maintenance week (Week 45)
- MOB for November 5th midwater tracking cruise (Week 45)

- Tested midwater tracking algorithms, but the cruise was cut short due to weather conditions (Week 47)

Out of Office

- Offsite on Tuesday and Friday
- March 3 - March 6, 2025 - vacation
- June 2 - June 6, 2025 - vacation
- June 16, 2025 - vacation
- July 2, 2025 - vacation
- July 29 - August 1st - vacation
- November 10 - November 14 - vacation
- December 1 - vacation
- December 31 - vacation
- January 2, 2026 - vacation
- January 19, 2026 - January 30, 2026 - vacation
- December 30 - January 3, 2025 - vacation

Overhead

- Completed WVPP training (Week 45)