

Brian Kieft Sorted By Project

300082 - DMO Divisional Support - Wave Glider

- Assisted troubleshooting and supported recovery for Tiny (Week 4)
- Reviewing elevation data for more accurate hotspot geolocation of underwater assets (Week 4)
- Used Tiny to support coordinated sampling mission testing (Week 8)
- Loaded hotspot 3 and troubleshoot issues with tracking code. (Week 9)
- Prepping for PIE work next week (Week 9)
- Recovered Waveglider Hansen in Carmel Bay (Week 21)
- Recovered WG Hansen following bioacc deployment (Week 30)
- Piloting 25th-28th (Week 34)
- Launched WG Hansen Friday and support blue whale observatory run on Paragon (Week 36)
- Piloting Hansen this weekend. (Week 42)
- Recovered waveglider hansen yesterday following blue whale observatory deployment (Week 48)
- Recovered Hansen (Week 49)

300083 - DMO Divisional Support - LRAUV

- On call for Daphne MBTS run last week. Updated software release on vehicle. (Week 4)
- On call for Daphne/Pontus MBTS runs this week. Recovering Daphne today. (Week 7)
- On call for monthly MBTS Daphne deployment. Samples came back full! (Week 8)
- Daphne launch today for MBTS run and some engineering testing (Week 11)
- Prepping Pontus for deployment today (hopefully) (Week 11)
- Emergency recovery of Daphne S of M1 due to failed thruster (Week 28)
- Supporting MBTS and Pontus deployments (Week 28)
- Supported Pontus deployment this past week/weekend (Week 29)
- On call for MBTS (Week 30)
- Supporting MBTS run this coming week (Week 36)
- Supporting MBTS and Planktivore deployments this week. (Week 42)
- Supporting MBTS deployment (Week 46)
- Supporting Pontus piscivore deployment (Week 48)
- Supporting Piscivore deployment (Week 49)
- Supporting MBTS deployment, Piscevore deployment, and previous piscevore deployment last week. (Week 50)

600034 - Precision Control Technologies for ROVs and AUVs

706007 Great Lakes

- Met with team to discuss deployment locations. (Week 19)
- Vehicle prep on Ahi/Aku (Week 19)
- Getting travel and shipping sorted out (Week 21)
- Prep continues. Shipping 6/12 (Week 22)
- Bringing up Ahi (Week 22)
- Pulling data and working with Mike to get a STOQS campaign set up. (Week 28)
- Pulled more EK80 data and looking into some data flow issues (Week 30)

- Worked with Mike on animation for simulated oil spill presentation (Week 30)
- Pulled full Triton/Makai logs (Week 30)
- Packed and launched Makai/Triton from Charleroi Michigan last Friday. Was on call to Monday. Back on Thursday. (Week 32)
- Supporting Triton deployment in Lake Michigan. (Week 34)
- Reviewed data from Makai bottoming incident (Week 34)
- Prepping for Triton/Makai launch (Week 36)
- Lots of debug on Triton ibase bioacc computer (Week 36)
- Uploaded the rest of the EK80 data for the team. Reviewed the oil spill animation that Mike made. (Week 42)

708143 - CA Current HABS

- Met with team to plan for spring EcoHAB (Week 2)
- Met with team to discuss plans for April program. Currently thinking 5 LRAUVs across multiple payloads for informed ESP sampling. (Week 8)
- Prepping for Monday. 3 LRAUVs go out to scout followed by ESPs on Apr 5/10. (Week 13)
- Lots happening for EcoHAB. 5 LRAUVs and lots of DA showing up. (Week 16)
- Wrapped up 2023 EcoHAB last week with Pontus/Galene recovery (Week 18)
- Wrapped up EcoHAB. Paying bills for boat rentals, reviewing user input, etc. (Week 19)

901009 - CANON

- Met to discuss bringing back biolum proxies (Week 6)
- Met with team to discuss coordinated sampling missions for June CANON (Week 7)
- Met with team to discuss plans for May program (Week 8)
- Fixed missing data issue for water samplers (Week 9)
- Working on architecture for intraLRAUV acomm ingest into dash from hotspot. (Week 9)
- Found a bug with the DAT component that will affect the planned CANON mission. Wrote a test mission to debug. (Week 18)
- Working on fix for DAT to enable mission that tracks Waveglider and also transfers data between vehicles. (Week 19)
- Recovered Makai today. (Week 21)
- Still helping out with CANON. May be extended (Week 21)
- Wrapped up CANON deployment last week following a successful mission for Brizo/Tiny. (Week 22)
- Makai was recovered early due to an ESP failure. (Week 22)

901513 - Targeted Sampling by AUVs

- Assisting Yanwu with simulation environment (Week 2)
- Reviewed patch mapping paper (Week 2)
- Went over CANON mission design and pointed Yanwu to acomm receipt examples (Week 4)
- Assisted running passive acoustic monitoring tests offshore on Galene (Week 6)
- Added simulated acomm xmit for multiple modems to DAT component (Week 6)
- Working with Yanwu to design/test multivehicle coordinated sampling mission for CANON (Week 7)
- Lots of work this past week on the tag team sampling mission with WG hold. Initial lab tests were successful so we launched Triton to join Pontus and test the coordinated sampling offshore which was also successful. Some minor issues were found on the LRAUV and WG hotspot side which are being resolved and will be field tested again in early March. (Week 8)
- See above (Week 18)
- Worked with Yanwu to add target threshold (Week 19)
- Discussed lessons learned from Muskegon oil spill testing. (Week 29)
- Reviewed Yanwu's recent paper on coordinated ESP sampling during CANON (Week 34)
- Helping Yanwu with some build issues (Week 36)

- Paper review (Week 36)
- Troubleshooting and testing offshore of the PAM mission (Week 42)
- Working with Yanwu for passive acoustic monitoring (Week 46)

901913 - Wet Wifi

- Helped out with tank testing late last week. (Week 49)

902010 - Mesopelagic LRAUV

902101 - LRAUV Technology Development and Fleet Operations

- Waterlink DVL initial bringup and wiring (Week 2)
- Discretionary funds request for subcontractor working on Benthos MMP integration (Week 2)
- Delivering new MF modem to Elecia for testing. Old one has a broken RX card. Will see if it can be repaired. (Week 2)
- Went over UX feedback for alpha test deployment (Week 4)
- Integrating Waterlinked DVL into Galene. Testing offshore later this week (Week 4)
- Simulated mass only mission for bioacoustic deployment (Week 4)
- Ahi battery configs (Week 4)
- Delivered new modem and RX card to Elecia for binary mode testing between the modems. (Week 4)
- Integrated new Waterlinked DVL on Galene (Week 6)
- Ran sea trial on Galene to test DVL and new mission (Week 6)
- Bringing up Ahi/Aku (Week 6)
- Troubleshooting battery issues on Ahi/Makai (Week 6)
- Assisting with testing of repaired actuators (Week 6)
- New release underway for winter sea trials (Week 6)
- Fixed Joystick control on Galene and made a local (mbari) repo for further development (Week 7)
- Reconfigured and pushed Galene cradlepoint config to IS repo. (Week 7)
- Selected various missions to either delete, deprecate, or transition to TethysL (i.e. housecleaning) (Week 7)
- Added B&T and compass cal documentation to deployment plan template. Updated B&T mission with more lenient default values for convergence. (Week 7)
- Working with Benthos/Elecia to develop lat/lon/depth data return with range. MMP component testing will commence soon. (Week 7)
- Set up backseat computer (BSC) on sim rig in lab. Will integrate LCM data flow to mimic a real vehicle/BSC. (Week 7)
- Closed Triton with Quinn and deployed for bioacc testing and CANON coordinated mission testing. (Week 8)
- Happy to report no critical failures for the entire last week of deployment with across 3 vehicles. (Week 8)
- Lots of work documenting issues with the new UI. (Week 8)
- Met with team to discuss upcoming docking work (Week 8)
- Started looking into battery component issues on Makai (Week 8)
- Met with Karen to get rolling on UI work (Week 8)
- Debugging tethys oil leak, water ingress, and LCB reset (Week 9)
- Testing MMP mode for Benthos modems (Week 11)
- Fixed minor issue in Triton backseat mission (Week 11)
- Lots of offshore testing last week. Recovered everything Friday. (Week 13)
- Debugging satcomms issue on Makai. It's involved. (Week 13)
- Debugging range closing docking issue with Rob. Solved and ready for test at sea (Week 13)
- Met with Steve Rock to discuss next steps in TRN (Week 18)
- Working on dock network a bit (Week 19)
- Investigating RDI issues (Week 19)
- Planning to deprecate tracking behavior and stick with track_acoustic_contact (Week 19)

- Met with BioAcc team to discuss plans. Working on reviewing data from great lakes. (Week 28)
- Supporting WHOI deployment for scallop survey and CDOM work (Week 28)
- Working with WHOI to support their upcoming cruise. New missions and work on the strobe/camera system (Week 29)
- (Week 30)
- Met with mgmt to discuss funding for UX development outside services for first 3 mo of Q4. (Week 34)
- DVL parsing fix was investigated and determined to be dropping bytes. Baud rate reduction seems to have solved the issue system wide (Week 34)
- Configured planktivore networking and tested on Ahi for upcoming deployment. (Week 34)
- Troubleshoot issue with shutdown command hanging the system over serial console (Week 34)
- Diagnosing issues with acoustics data on Triton. Shutdown command, critical restarts, hwinfo logging, wireshark logging (Week 36)
- Fixed logging messages and stop timing in backseat component (Week 36)
- (Week 42)
- Docking runs on Tethys tuning up the horizontal control. Tethys has now officially charged on an underwater dock for the first time! (Week 42)
- Fixed RDI pathfinder and Rowe simulation issues (Week 42)
- SlowYo meeting to go over mass only vertical control progress (Week 42)
- Made a modification to the sci2 mission to terminate a downward yoyo based on light for the ongoing planktivore deployment. (Week 42)
- Lots of docking work! Charging is working and we're honing docking and attempting data transfer. (Week 46)
- Docking data analysis (Week 48)
- Helping with host sim support for docking (Week 48)
- Supporting UAV coordinated mission but it got scrubbed due to ceiling. (Week 49)
- Looking into slowYo testing (Week 49)
- Preparing for more docking tests. (Week 49)
- More docking all the time! (Week 50)
- Met with Elecia to firm up MMP testing. Fix is in, gotta test now. (Week 50)

902102 - Multi-LRAUV Simulation Environment

- Simulation fix on local omen machine (Week 2)
- Further missions commands have been rolled out to test. Made doc to capture end user input. (Week 2)
- Dealing with budget overruns with accounting (Week 4)
- Push to new repo at mbari successfully done. Now investigating how to automate. (Week 6)
- Dealing with OSRF overruns from 2021 (Week 6)
- Push to docker worked thanks to Ivan. Planning to automate this task as part of our nightly build scripts. (Week 7)
- Worked with Ivan to get BSC driving the vehicle around. Now to add range/bearing ingest. (Week 7)
- Simulated the automation of docker push. Will add to daily build scripts (Week 8)
- Got simulator computer talking with backseat computer and LCM running demonstrated by joystick control in the sim with real hardware in the loop. (Week 9)
- Got TRN ingest going on the backseat computer from the sim. Next step is ingesting the estimated positions from the backseat to the application and using them to navigate. (Week 9)
- Got the sim back up and running on the lab machine. Met with Martin Ludvigsen of NTNU to discuss a sim presentation (Week 18)
- Working on water currents and docking sim with Rob (Week 22)
- Sim is broken. Fixed netcdf file wget issue but need to deal with gazebo plugin path issue on the docker side now. (Week 29)
- Helping with gazebo sim support for Rock/TRN (Week 48)
- Went over correct procedure for internal users and tested on multiple machines. Quinn updated the readme to match actuals (Week 49)

- Fixed LCM networking issue on conduit in lab to enable TRN data to be ingested into GZ sim. (Week 49)
- Quick sim test for LCM compatibility (Week 50)

902204 - Scalable Robotics

Out of Office

- 12/29-01/03 (MST)
- 01/17-01/20 (MST/CST)
- 01/31-02/03 (MST)
- 01/30-02/03 (MST)
-
- 3/3-3/6?
- 3/6 - 3/8
- 3/29 - 3/31
- 4/27-28
- 5/1
- 06/09 (PDT)
- 06/19 - 06/29 (EDT)
- 07/03 - 07/07 (TBD)
- 07/17 - 07/28 tentative (TBD)
- 08/03 - 08/07 (EDT) alternate
- 08/16/ - 08/19 (EDT)
- 09/26 - 10/04 (EDT)
- 05/15 (PDT)
- 06/09-14 (PDT)
- 08/03 - 08/07 (EDT)
- 08/16/ - 08/19 (EDT) alternate
- 07/18 - 07/21 tentative (MST)
- 08/14 - 08/18 (PDT)
- 08/16 - 08/19 (EDT) alternate
- 07/18 - 07/21 (MST)
- 08/02 - 08/06 (EDT)
- 08/06 - 08/09 (PDT)
- 08/14 - 08/18 (PDT - vacation)
- 09/18-09/21 (EDT)
- 09/25 - 09/29 (EDT)
- 10/23-10/31 vacation (PDT)
- 11/06-11/09? Phoenix (MST)
- 11/20-11/24 vacation (PDT)
- 11/07-11/10 Phoenix (MST)
- 11/20-11/27 vacation (PST)
- 12/04-12/07 Phoenix (MST)
- 12/25-12/29 vacation
- 12/18-12/27 (MST)
- 12/28-01/01 (MST)
- 02/12-02/16 (MST)

Overhead

- Investigating DAT sim repo for tech transfer to Benthos. (Week 2)
- Debugged what appears to be a failed NAND chip on proxima's SOM at WHOI (Week 2)

- Screening call and applicant review for embedded position (Week 4)
- WHOI meeting to discuss Stella deployment. (Week 4)
- Troubleshooting Stella and getting configuration corrected. Shipped SOMS and reviewed vertical mode debugging. (Week 4)
- Reviewed internal LRAUV article for behind the scenes (Week 4)
- Debugged failed nand chip on WHOI SOM for Proxima. (Week 4)
- Supporting Stella deployment at WHOI (Week 6)
- Investigated grounding incident with WHOI vehicle Stella. While multiple factors contributed to the incident, the primary cause was a faulty DVL. (Week 7)
- Screening calls (Week 8)
- Debugging some issues with WHOI DVLs on new vehicle Pyxis (Week 11)
- Pyxis DVL fix for WHOI (Week 13)
- General configuration fixes for WHOI as they plan an upcoming sea trial and deployment (Week 13)
- Hosting WHOI team next week (Week 13)
- Working with GLERL team next week on ASV testing. (Week 13)
- Candidate screening calls this week (Week 13)
- Interviews (Week 16)
- Interview work (Week 19)
- UAV work (Week 19)
- Interviews (Week 21)
- Proposals! (Week 28)
- Shipping quote for Denmark (Week 30)
- Supporting WHOI deployment from the Bigelow. SW releases, GF consults, mission testing, etc. (Week 30)
- Tech xfer questions for upcoming commercial release. Dev tools list, repos, etc. (Week 36)
- Prep for Oceans with video lab, etc (Week 36)
- Budget xfer for UX work (Week 36)
- Reviewing candidate resumes. (Week 49)
- 2 interviews this week (Week 50)