

708168 - DHS/LRAUV Under-Ice

Week 50

1. Brian Kieft
 - a. Diagnosed and fixed issue with Stella GPS. Added code change in application to prevent this configuration issue from stomping on real GPS fixes in the future.
 - b. Working to get pyxis config up to date.

Week 49

1. Brian Kieft
 - a. Assisting in troubleshooting LRAUV Stella.

Week 46

1. Brian Kieft
 - a. Supported the first real deployment of Stella.
 - b. Diagnosed and fixed a problem with the DVL

Week 44

1. Brian Kieft
 - a. Met with team to discuss upcoming tasks for Stella deployment next week

Week 42

1. Brian Kieft
 - a. Met with SW team to discuss plans for DVL development and new behaviors

Week 34

1. Brian Kieft
 - a. Troubleshooting Stella GPS issues
 - b. Tagging/loading Polaris and Stella. Assisting in prep for Polaris for Tuesday's salinity intrusion cruise off the cape.

Week 32

1. Brian Kieft



a.

Week 31

1. Brian Kieft



a.

Week 30

1. Brian Kieft

- a. Deployed LRAUV Polaris up in the Chukchi Sea for a USCG demo with WHOI. This was a new ocean for LRAUV and the highest latitude yet (>71 deg)



b.

Week 28

1. Brian Kieft

- a. Leaving Friday for Barrow

Week 26

1. Brian Kieft
 - a. Prepping for Arctic trip. Fixed a couple minor issues on Stella.

Week 25

1. Brian Kieft
 - a. Met with team to discuss operations in arctic. Ice is not looking great right now but proceeding with flights.
 - b. Assisted with ATT sim card acquisition

Week 17

1. Brian Kieft
 - a. Wrote component interface for INS and multibeam
 - b. Made an animation of our "oil" spill

Week 16

1. Brian Kieft
 - a. Supporting current Polaris deployment testing oil mapping
 - b. Added PD6 and water column capability for Stella LRAUV
 - c. Added ZDA on/off/ignore capability for Stella NAL9602

Week 15

1. Brian Kieft
 - a. Supporting a Polaris deployment and prepping Stella for initial B&T and first sea trial.
 - b. Added yo-yo and multi lap functionality into the grid survey mission.

Week 14

1. Brian Kieft
 - a. Added ZDA support for NAL9602 component
 - b. Enabled PD6 mode for WHOI ADCP testing

Week 13

1. Brian Kieft
 - a. Met with team today to go over final details before the end of the month.
 - b. Preparing conops for arctic deployment
 - c. Added capability for ZDA messages to be turned on/off for LRAUV Stella (multibeam mapping vehicle)
 - d. Adding PD6 ingest capability to the ADCP to support mapping vehicle.
2. Ben Raanan
 - a. Docking development and analysis

Week 12

1. Brian Kieft
 - a. LCB troubleshooting on discrete I/O channel yielded parts that weren't stuffed.
 - b. Troubleshooting wetlabs values for sim experiment
 - c. Loaded polaris with latest release to support lab testing
 - d. Transposed oil simulator to Buzzards bay. Pending lab test
 - e. Met with team to plan the rest of the work for March

Week 11

1. Brian Kieft
 - a. Troubleshooting various issues involving the Stella vehicle bringup
 - b. Supporting upcoming Polaris deployment this week to run a simulated oil spill in Buzzard's bay. First is a lab test.
 - c. Met to discuss new components for mapping LRAUV
2. Ben Raanan
 - a. Recovered Tethys after docking sea-trials with the mock-dock. Ironed out some issues — docking success rate with the DAT is ~70%

Week 10

1. Brian Kieft
 - a. Troubleshooting buoyancy system on Stella
 - b. Reviewed Polaris DVL data
2. Ben Raanan
 - a. Tethys deployed for docking tests. DAT noise has been an issue, but converging on a filtering approach that will allow line capture docking with reasonable success rates.

Week 9

1. Brian Kieft
 - a. Testing internal environmental simulator following Mike's fix on Tethys which is currently deployed offshore
 - b. Prepped tethys for deployment and launched yesterday for docking, oil spill sim, and polygon testing
 - c. Buoyancy issue was resolved on Stella today. Mechanical problem.
 - d. Checked RDI upward looking DVL for nav integration
2. Ben Raanan
 - a. Tethys deployed for docking testing (operations and data analysis)

Week 8

1. Brian Kieft
 - a. Helped troubleshoot Stella mass/buoyancy system
 - b. Worked on testing of onboard environmental simulation for oil spill demo in March

Week 7

1. Brian Kieft
 - a. Troubleshooting issues on Stella bringup with mass and buoyancy servos
 - b. Working on testing oil spill simulation to prepare for demo next month
2. Ben Raanan
 - a. Meetings and support for WHOI team

Week 5

1. Brian Kieft
 - a. Supported deployment for the Norne oil spill wreck and the noreaster storm chase.

Week 4

1. Brian Kieft
 - a. Tested grid mission

- b. Attended USCG LRAUV training sessions over the past 2 days
- c. Supporting the Norness/Wreck1487 oil spill deployment right now. Returning early due to weather.

Week 1

1. Brian Kieft

- a. Met with team to discuss Stella bring up, Norness shipwreck mission Jan 20, USCG training Jan 25/26, and March USCG/NOAA oil spill demo.