

708158 - DHS Y6

Week 35

1. Brett Hobson
 - a. Supporting the new vehicle build by answering many questions, updating some part drawings and participated in group meeting

Week 34

1. Brian Kieft
 - a. Wrote an ocean current estimation behavior. Sim/tank tests passed. Will test offshore soon.
 - b. Met with team today to discuss progress/plans

Week 33

1. Brian Kieft
 - a. Assisted Noa with some WHOI micromodem questions and configuration issues

Week 26

1. Brian Kieft
 - a. Working through JIRA issues

Week 24

1. Brian Kieft
 - a. Supported docking test deployment in Buzzards Bay.
 - b. Debugging failure on dynamic docking module.
 - c. Added some new feature requests in JIRA
 - d. Vehicle recovered Thursday.

Week 23

1. Brian Kieft
 - a. Tested bug fixes in WHOI lab for DDM component
 - b. Prepared for Polaris deployment. Vehicle was launched yesterday in Buzzard's Bay

Week 22

1. Brian Kieft
 - a. Added a fix to allow dynamic docking module to be more compliant with failures to retrieve status information while changing modes
 - b. Assisted in debugging a potential kernel issue on our SPI/UART bus that was causing docking failures during the last deployment.
 - c. Fixed some typos in the DVL code
 - d. Met with team to prepare for upcoming payload integrations, cruise, and a deployment next week.
2. Ben Raanan
 - a. Planning for YR7

Week 21

1. Brian Kieft
 - a. Analyzing issues from last deployment and debugging whisker box problems.
 - b. Met to discuss deployment plans

Week 19

1. Brian Kieft
 - a. Preparing for deployment in Buzzard's Bay tomorrow!
 - b. Met with team to discuss plans and year 7 budget/tasks
2. Ben Raanan
 - a. Data analysis, troubleshooting, and general support for the WHOI team.
 - b. Preparing for deployment in Buzzards Bay tomorrow.

Week 18

1. Brian Kieft
 - a. Reviewing budget
 - b. Reviewing proposed MB sonar and INS integration
 - c. Met with team to discuss progress and plans for deployment
 - d. Assisted with standalone binaries for host side simulation of under ice missions at WHOI
 - e. Fixed a minor bug associated with tracking acoustic targets in sim

Week 17

1. Brian Kieft
 - a. Met to discuss last docking mission and go over vertical control
 - b. Assisted with plotting tools on whoidash
2. Ben Raanan
 - a. Data analysis and group meetings

Week 16

1. Brian Kieft
 - a. Weekly meeting to discuss plans and data review
 - b. Y7 budget/scoping
2. Ben Raanan
 - a. Y7 budget
 - b. Data analysis and debriefing with the team at WHOI

Week 15

1. Brian Kieft
 - a. Meetings to discuss next deployment
 - b. Review of data from last deployment
 - c. Working on data flow on whoi dash
 - d. Found bug in upward looking DVL code and made a fix

Week 13

1. Brian Kieft
 - a. Reverse thruster testing
 - b. Data review

2. Carlos Rueda
 - a. Occasional interaction with WHOI over Slack. Provided info about Postgres database size.

Week 12

1. Carlos Rueda
 - a. Assistance to WHOI. New TethysDash [docker release 3.9.77](#) already installed. Temporary, now unneeded workaround with CNAME removed (thanks Pat).

Week 11

1. Ben Raanan
 - a. Vehicle deployed to sea at WHOI.
 - b. Supporting the WHOI team in planning/ops.
2. Carlos Rueda
 - a. TethysDash related assistance to WHOI, including a workaround (with IS' help) so their cell connection status check is performed against the actual server on their side. (Proper fix pending, probably involving the LRAUV side depending on input from the LRAUV team.)

Week 10

1. Ben Raanan
 - a. Working with the folks at WHOI to get the TethysDash clone up and running.
2. Carlos Rueda
 - a. General revision to address configurability of the external Pusher service for async notifications to the UI clients. Released dockerized TethysDash system 3.9.76. Already tested at WHOI. Good progress in general. Thanks WHOI for the feedback.

Week 9

1. Brian Kieft
 - a. Added upward looking DVL interface
 - b. Troubleshooting network issues at WHOI
 - c. Lab testing with remote team
 - d. Meetings to prepare for March under ice demo in Lake Superior
 - e. Wrote summary of February under ice demo
2. Ben Raanan
 - a. Software updates for under-ice docking
3. Carlos Rueda
 - a. Prepared and released dockerized TethysDash system [3.9.73](#). Successfully installed by WHOI, although discussions continue as they get to exercise the system.

Week 8

1. Brian Kieft

- a.
- b. LRAUV B team was on location at WHOI and also in Maine running under ice tests of the WHOIDHS vehicle recently named *Polaris*. This was the first time an LRAUV was run under the ice and, while there's more work to be done, initial results were very positive.
- 2. Ben Raanan
 - a. Back from WHOI/Maine under-ice deployment.
 - b. Implementing and testing fixes/updates for LRAUV's under-ice missions.
 - c. Support for WHOI/LRAUV team.
- 3. Carlos Rueda
 - a. Per email with Ryan re issues with Argos emails (which we recently also noticed and addressed), will prepare release with updated instructions (esp re configuration changes).

Week 6

- 1. Brian Kieft
 - a. On Deployment at WHOI running test missions in Buzzards Bay prior to heading to N Maine for under ice. A delayed shipment and weather are causing delays for Maine but we hope to head up on Saturday.
 - b. Vehicle arrived in good shape and everyone here at WHOI is happy to have it on the E coast!

- c.
- 2. Carlos Rueda
 - a. Email with WHOI to clarify aspects related with TethysDash/LRAUV communication at the application level.

Week 5

- 1. Brian Kieft
 - a. Ran tests of new under ice behaviors and missions over the weekend and shipped equipment for testing under ice on the east coast next week.
 - b. Met with WHOI team to discuss logistics
- 2. Carlos Rueda
 - a. Setting up automated TethysDash docker image build on Docker Hub.
 - b. Continued setting up the tethysdash2 VM. Besides migrating to CentOS 7, a key goal is to also enable the dockerized version of TethysDash for our production server (as we are doing with external

installations!). As part of this, testing relevant configuration settings to use the Atlas share from the docker container.