

300078 - DMO Divisional Support - AUV

Week 49

1. Thom Maughan
 - a. Parts kit and BOM for EE Techs. Serial Monster board has been stuffed by James. Will be working with Tad while Erik is out.

Week 47

1. Mike McCann
 - a. Processed Dorado mission 2023.324.00

Week 44

1. Mike McCann
 - a. Quick look plotting from auv-python on hold to work on i2map O2 calibration

Week 43

1. Rich Henthorn
 - a. Porting i2MAP post processing software to Windows for Midwater Ecology Lab
2. Mike McCann
 - a. Continuing to work on matplotlib quick look plotting in auv-python software
 - b. Deployed updated STOQS UI that has new scrolling Measured Parameters list

Week 42

1. Mike McCann
 - a. Processed dorado mission 2023.285.01 from hotel room in Spain
 - b. Writing matplotlib code to produce the quick look plots in auv-python

Week 41

1. Rich Henthorn
 - a. Review PR from ET
 - b. Research Simulator implementation

Week 40

1. Kent Headley
 - a. dorado linux port
2. Rich Henthorn
 - a. Review pull requests

Week 39

1. Rich Henthorn
 - a. Met with team to discuss OTH comms
 - b. How the Dorado system may be modified for remote missions

Week 38

1. Rich Henthorn
 - a. Porting modules in Dorado code
 - b. Ready for next phase after merge

Week 37

1. Rich Henthorn
 - a. More dorado-auv-qnx modules ported to dorado-auv-linux

Week 36

1. Kent Headley
 - a. working on Dorado Linux port
 - b. QNX serial and USB drivers related to Iridium comms for Jan 2024 dorado tow-out missions
2. Rich Henthorn
 - a. Porting various modules and drivers preparing for hardware testing
 - b. CTD instruments, dvl, adaptive sampler, LOPC, CARL
3. Mike McCann
 - a. Updated auv-python code to use Python 3.11 on new computer

Week 35

1. Mike McCann
 - a. Adding product generation code to auv-python: ODV Gulper files first, then quick look images

Week 34

1. Mike McCann
 - a. Going through old Dorado missions to make sure all of them get processed by auv-python

Week 33

1. Thom Maughan
 - a. Discussed the scope of the planned work with Erik.

Week 31

1. Rich Henthorn
 - a. Working towards running simulations on dorado dev VM

Week 30

1. Kent Headley
 - a. Fixed issue with QNX simulator Makefile

Week 29

1. Rich Henthorn
 - a. Refinements to configuration file loading

Week 25

1. Rich Henthorn

- a. Support TRN tests on Carson at Portuguese Ledge

Week 23

1. Mike McCann
 - a. Planning to migrate the tethysviz STOQS server to a new VM that uses PostgreSQL 15

Week 22

1. Kent Headley
 - a. Working on Dorado linux port
2. Rich Henthorn
 - a. Build and test a mission using updated repos

Week 19

1. Rob McEwen
 - a. Worked with Kent to roll GMT back to version 5 to get around the grdcut -N bug introduced in V6. This required doing a CMAKE build from source.
 - b. Developed tileMaker.m that incorporates createbo script and has configurable tile sizes.

Week 15

1. Rich Henthorn
 - a. Simulated test mission
2. Rob McEwen
 - a. Debugging large pitch oscillation that occurred on a steep hill on Dave's EMARK_vents mission.
 - b. Received the map from Dave, cut it up into .grd tiles, and created octree tiles.
 - c. The simulator then reproduced the oscillation quite accurately.
 - d. Devised and coded a fix. Added a new method for computing altitude from the Dvl beams. The algorithm fits a plane to the four beams with least squares, then takes the normal to the plane for altitude.
 - e. The simulator then verified that this eliminates the oscillation on that mission.

Week 14

1. Rich Henthorn
 - a. Migrate dev to local VM
 - b. Build system and set up a TRN test

Week 13

1. Kent Headley
 - a. helped Rob to get simulation running to investigate pitch oscillation encountered on MidAtlantic cruise
2. Rob McEwen
 - a. Simulated one of Dave C.'s mid-Atlantic mapping missions
 - b. Still working on grt to octree conversion for the corresponding map
 - c. Debugging a pitch oscillation that occurs during steep climbs and dives.

Week 12

1. Kent Headley
 - a. working on auv linux port

Week 11

1. Rich Henthorn
 - a. Shared-memory IPC mechanisms

Week 10

1. Kent Headley
 - a. Working on several proposed updates related to TRN for the dorado linux port

Week 9

1. Kent Headley
 - a. Updated several modules, including latest TRN simulator code
 - b. Met w/ Rich and Rob to discuss workflow and potential activities
2. Rich Henthorn
 - a. Kickoff meeting of sorts with topics including merging and standardizing modules, simulation testing, repo branching model

Week 4

1. Rich Henthorn
 - a. Build latest repo and run simulation
 - b. Got fastsim to run after setting env vars
 - c. Used i2map.cfg for a mission

Week 3

1. Rich Henthorn
 - a. Test build and run of code in repo

Week 1

1. Rich Henthorn
 - a. Experimentation driver/server arch