

902102 - Multi-LRAUV Simulation Environment

Week 50

1. Brian Kieft
 - a. Lots of work bringing up the lab/local machine to recent changes but they're all working now.
 - b. 140% over on labor currently.

Week 48

1. Brian Kieft
 - a. Trying to get Yanwu up and running

Week 46

1. Brian Kieft
 - a. Finally got the sim running on two machines here. Will test with Yanwu next.

Week 44

1. Brian Kieft
 - a. Lots of work trying to get the system built/installed. Almost there but still some hurdles.
 - b. Met with team to discuss plan for easy rollout (e.g. simple script that handles everything). Working on optimizing uptake.

Week 42

1. Brian Kieft
 - a. Lots of work on getting a build running. Currently working through issues on the container build from source. Hoping to have instructions posted to users by the end of the week.

Week 41

1. Brian Kieft
 - a. Lots of work to attempt to build the sim. So far we're having issues.

Week 35

1. Carlos Rueda
 - a. Submitted PR with all vehicle passwords reset. Some exchanges aimed at promoting a focused discussion about possible reorganization of repositories and handling of security aspects.

Week 31

1. Carlos Rueda
 - a. The [mbari/lrauv-ignition-sim](#) DockerHub repo is now public again. Thanks again Tim P.

Week 30

1. Carlos Rueda

- a. I haven't been involved in this project for a long time. In any case, I was surprised to learn that the [mbari/lrauv-ignition-sim](#) repo at DockerHub was public. Per various exchanges on [slack](#), I made it private and someone else removed all images. Thanks again Tim P. for the heads-up.

Week 28

1. Brian Kieft
 - a. Team meeting yesterday for Q3/Q4 transition planning

Week 26

1. Brian Kieft
 - a. Walked through sim setup via Ben's documentation and got it running.

Week 25

1. Brian Kieft
 - a. Built ignition/application and ran my first sim. Very cool!
 - b. Met with team today to discuss transition plan and progress.

Week 19

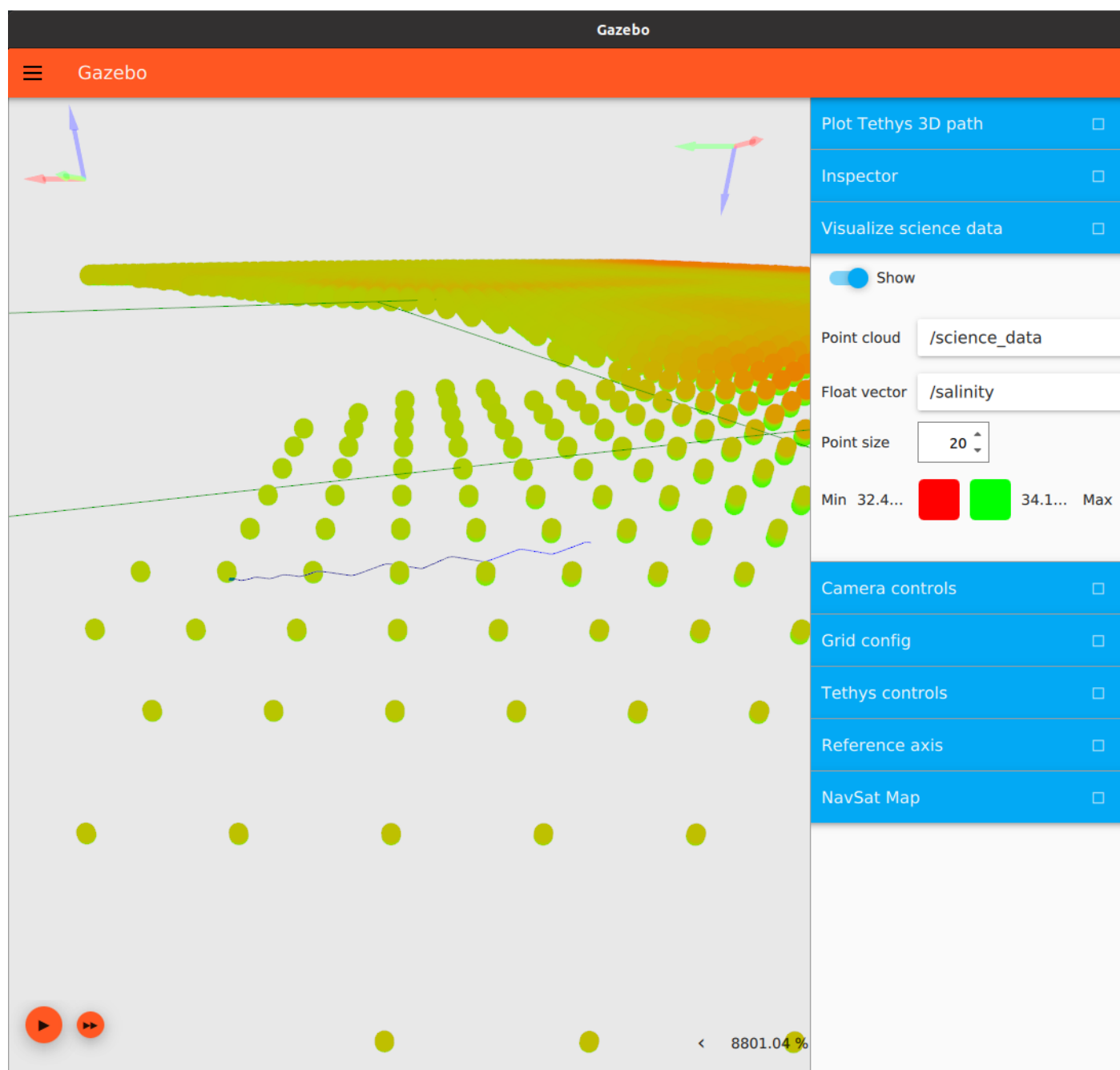
1. Ben Raanan
 - a. Integrating ROMs data from Santa Barbara to test EcoHAB scenarios ahead of the deployment

Week 18

1. Ben Raanan
 - a. Wrapping up data lookup/interp
 - b. [Acceptance testing — running multi-LRAUV targeted sampling tests with synthetic data](#)
 - i. Tethys (blue line): hover on chlorophyll max, trigger ESP water sample on a timer
 - ii. Daphne (red line): acoustically track/circle Tethys while profiling the water column
 - c. Starting work on battery plugin
 - d. Starting work on DVL plugin

Week 17

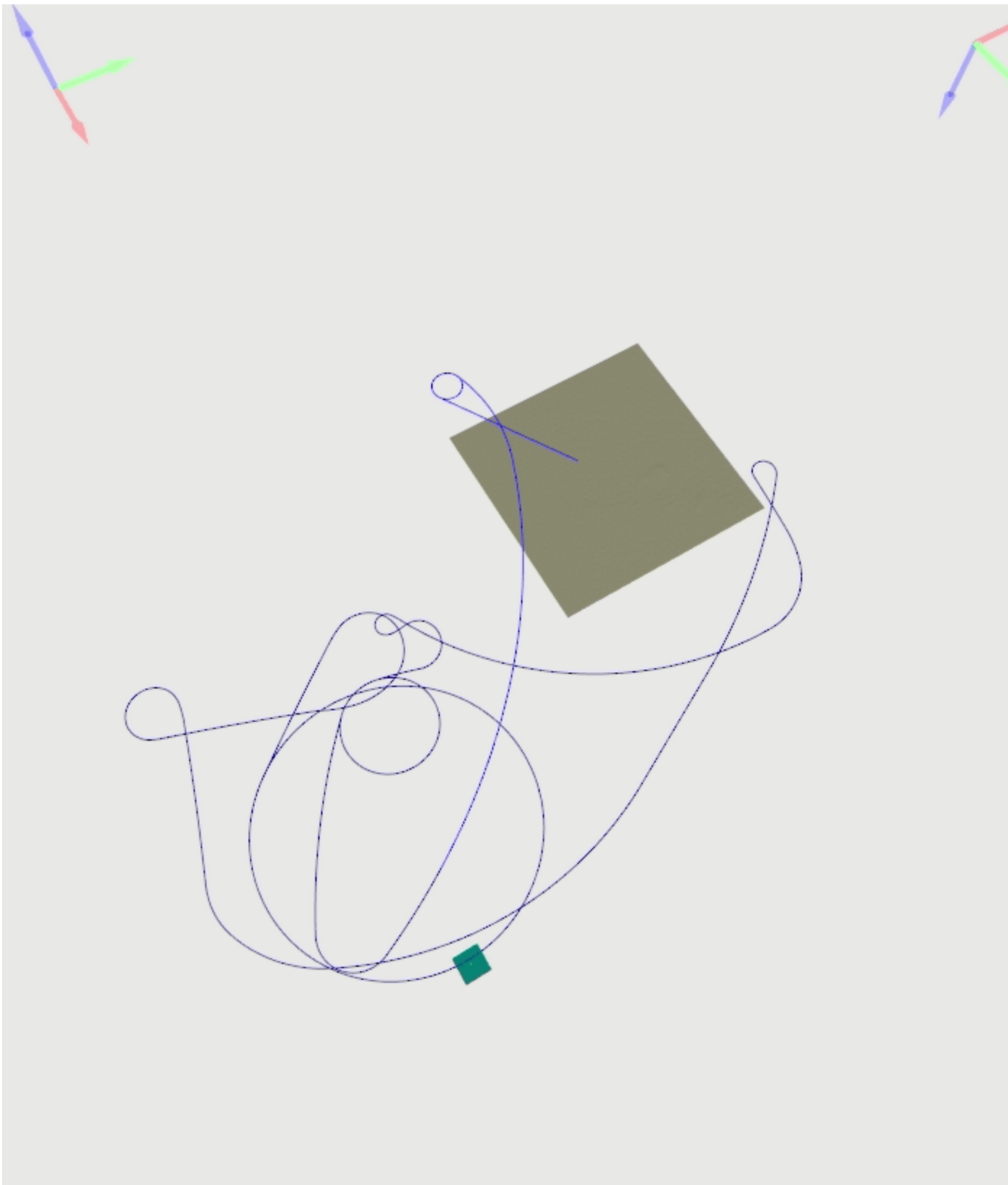
1. Ben Raanan
 - a. Acceptance tests with science data in the loop



b.

Week 13

1. Ben Raanan
 - a. Added tiled DEM to the simulation environment



- b.
- c. Acoustic tracking now working in the simulator
- d. Working to resolve issues with the science data interpolation

Week 11

- 1. Ben Raanan
 - a. Working on acceptance testing for the Q4
 - b. Test will include 2 vehicles
 - i. Vehicle 1 will simulate Chl patch tracking
 - ii. Vehicle 2 will simulate acoustic tracking (track vehicle 1)

Week 10

1. Ben Raanan
 - a. Updates in the lrauv-app to accommodate the new AHRS sensor model
 - b. Team is working on adding in digital elevation maps of Portuguese Ledge
 - c. Team is working on surface winds
 - d. Team is working on DVL plugin
 - e. Working on test plan for Q1

Week 9

1. Ben Raanan
 - a. Wrapping up surface buoyancy gradient
 - b. Added science data interpolation unit tests
 - c. Integrating new AHRS sensor model with LRAUV app
 - d. Starting work on adding digital elevation maps support
 - e. Started work on DVL plugin

Week 8

1. Ben Raanan
 - a. Integrated new acomms sim interface
 - b. Working on surface dynamics plug-ins
 - c. Devising Q1 test plan

Week 7

1. Ben Raanan
 - a. Export control stuff
 - b. Testing new acomms module
 - c. Wrapping up new AHRS sensor model unit tests
 - d. Wrapping up surface dynamics simulation
 - e. Starting work on DVL sensor plugin
 - f. Starting work on surface wind plugin
 - g. Updating virtualization layer to use Rocker

Week 6

1. Ben Raanan
 - a. Working on new acomms sim module, AHRS sensor model, surface simulation