

901513 - Targeted Sampling by AUVs

Week 51

1. Carlos Rueda
 - a. Some exchanges with Yanwu and Tom.

Week 49

1. Carlos Rueda
 - a. Starting to set up the core tracking software on the SMC-2 upon the python3.7.9 install that Tom has made.

Week 48

1. Carlos Rueda
 - a. It turns out it is not python 3.6 but 3.4 that is available on the target SMC2 system. So, I did some assessment in terms of impacted libraries. Tom will look again into trying to enable 3.6. Otherwise, some non trivial changes would be required.

Week 46

1. Tom O'Reilly
 - a. Worked with Chris Wahl and Liquid Robotics to prepare new Wave Glider Sensor Management Computer (SMC) for MBARI applications.

Week 42

1. Carlos Rueda
 - a. Chris reports good progress setting up network connection to the SMC 2.0 payload.

Week 40

1. Carlos Rueda
 - a. More and more revision, modularization, mypy-typing, and documentation to the front detection/tracking code - <https://github.com/mbari-org/wgfronttracking>, intended to be used as an installable package (via pip). All in pretty good shape for when we can start implementing the wave glider interface against the actual hardware.

Week 39

1. Carlos Rueda
 - a. Refining the front tracking code, now in a separate repo, with CI workflow including build and tests for python 3.6 (the version available on the new SMC board).
 - b. Productive discussion with the team about the status of things and the next steps.

Week 37

1. Carlos Rueda
 - a. More refactoring and code cleanup. I'll probably split the core logic into a separate repo to facilitate its use onboard the wave glider.

Week 36

1. Carlos Rueda
 - a. Modularizing front tracking code into separate space for reusability, in particular as preparation for running onboard.

Week 34

1. Carlos Rueda
 - a. Code updates.

Week 33

1. Carlos Rueda
 - a. Tom reports that the new hotspot SMC has Python3 installed - good news.

Week 31

1. Carlos Rueda
 - a. Code revision in progress.

Week 28

1. Carlos Rueda
 - a. Python core reorganization.
 - b. Thanks Tom for the great progress on installing python3 on the target.

Week 26

1. Brian Kieft
 - a. Assisting Yanwu with various updates he's been making for the WHOI cruise. Looking good and we'll merge changes to master.
2. Carlos Rueda
 - a. Reviewing code toward refactoring such that core detection/tracking logic can be used for both shore dispatch (involving data access and commanding mechanisms as done so far), and on the platform itself (with data access and commanding mechanisms still to be determined).

Week 25

1. Brian Kieft
 - a. Working with Yanwu on various upgrades for the WHOI deployment
2. Carlos Rueda
 - a. Talked with Yanwu and from there we set up a meeting with the team to delineate next steps. Tom will look into getting data (seems like commanding should not be a problem) and enabling python3. I'll be refactoring the code to facilitate use of the core algorithms on the vehicle.

Week 24

1. Carlos Rueda
 - a. Checking with Yanwu about plans for the remainder of 2021.

Week 23

1. Carlos Rueda
 - a. Some code revision and cleanup. Will talk to Yanwu about plans for 2nd semester.

Week 16

1. Ben Raanan
 - a. Dev/test support for Yanwu

Week 15

1. Ben Raanan
 - a. Support for EcoHAB and CANON missions

Week 14

1. Tom O'Reilly
 - a. Developing and testing automatic acoustic relay function on Wave Glider "Hotspot 3" payload, which will automatically relay messages between LRAUVs and shore. Plan to test during CANON and ECOHAB campaigns

Week 13

1. Brian Kieft
 - a. Continued debugging

Week 12

1. Brian Kieft
 - a. Debugging an issue with mission refile calls in the isotherm sampling mission

Week 9

1. Brian Kieft
 - a. Assisting with simulator issues for patch tracking work

Week 8

1. Brian Kieft
 - a. Running acoustic tests in preparation for spring ops

Week 6

1. Brian Kieft
 - a. Working with Yanwu on patch tracking mission runs

Week 4

1. Brian Kieft
 - a. Prepping for patch tracking demo
2. Ben Raanan
 - a. Working with Yanwu on patch tracking mission