

901513 - Targeted Sampling by AUVs

Week 49

1. Carlos Rueda
 - a. Although short, we had a successful front tracking exercise last week with code running on the wave glider. (great team effort with Chris W., Tom O., Yanwu)

Week 46

1. Brian Kieft
 - a. Working with Yanwu for passive acoustic monitoring

Week 45

1. Carlos Rueda
 - a. Tested the Iridium connection that Chris and Tom have set up. Actual date for a next tracking exercise offshore still TBD.

Week 42

1. Brian Kieft
 - a. Troubleshooting and testing offshore of the PAM mission

Week 40

1. Brent Roman
 - a. Possibly a new wave glider front tracking exercise coming up(?)

Week 36

1. Brian Kieft
 - a. Helping Yanwu with some build issues
 - b. Paper review
2. Carlos Rueda
 - a. Possibly new tracking exercise by early October

Week 34

1. Brian Kieft
 - a. Reviewed Yanwu's recent paper on coordinated ESP sampling during CANON

Week 29

1. Brian Kieft
 - a. Discussed lessons learned from Muskegon oil spill testing.

Week 23

1. Carlos Rueda
 - a. Group meeting to delineate status and next steps; good prospects but also challenges ahead.

Week 22

1. Carlos Rueda
 - a. Group meeting scheduled to discuss next steps for front tracking on the wave glider.

Week 21

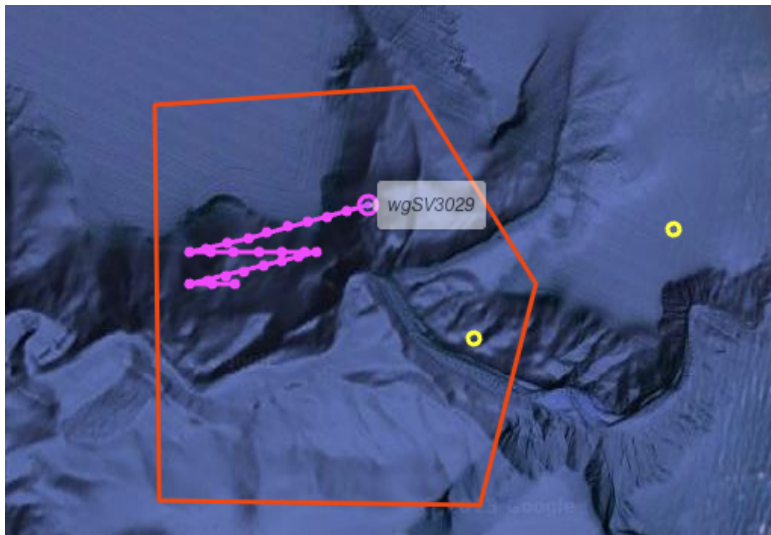
1. Carlos Rueda
 - a. For the first time, successful running of the front detection and tracking software offshore on the wave glider (SV3029). However, as emailed to the team: "by moving the program to run onboard we certainly gain in terms of avoiding data/commanding latencies, but we also lose some nice "infrastructure" features that we enjoyed and were very useful when running on shore. One key new element here (as hinted on slack) is probably having some sort of a more stateful program such that any parameter changes could be requested and acted on with minimal intervention (something a la TethysDash/LRAUV). Nothing trivial in principle, but I'll be thinking about how to incorporate some of that from the point of view of the tracking code."

Week 20

1. Tom O'Reilly
 - a. Helped with first deployment of Wave Glider sensor management computer (SMC) version 2, in support of front tracking experiment by Zhang and Rueda

Week 19

1. Brian Kieft
 - a. Worked with Yanwu to add target threshold
2. Carlos Rueda
 - a. Starting real front detection and tracking exercises offshore with programs running on the wave glider (SV3029). So far so good! (but the frequent broken connection becomes a real hassle especially now during testing and necessary tuning).



Week 18

1. Brian Kieft
 - a. See above

Week 13

1. Tom O'Reilly

- a. Refining 'hotspot' software for use during Zhang/Rueda tracking experiment, using 'SMC version 2' sensor management computer. SMC-2 interface to Wave Glider vehicle differs from that of our standard SMC-1

Week 9

1. Carlos Rueda
 - a. Team exchanges re preparations for having SMC-2 ready for deployment. No dates yet.

Week 8

1. Brian Kieft
 - a. Lots of work this past week on the tag team sampling mission with WG hold. Initial lab tests were successful so we launched Triton to join Pontus and test the coordinated sampling offshore which was also successful. Some minor issues were found on the LRAUV and WG hotspot side which are being resolved and will be field tested again in early March.
2. Carlos Rueda
 - a. Looked into the docker issue on TSAUV upon the recent patches. In this case, only the images were all lost, but, fortunately, it was just a matter of relaunching the services and now <http://tsauv.shore.mbari.org/gpdviz> is also back up.

Week 7

1. Brian Kieft
 - a. Working with Yanwu to design/test multivehicle coordinated sampling mission for CANON

Week 6

1. Brian Kieft
 - a. Assisted running passive acoustic monitoring tests offshore on Galene
 - b. Added simulated acomms xmit for multiple modems to DAT compoment

Week 4

1. Brian Kieft
 - a. Went over CANON mission design and pointed Yanwu to acomms receipt examples

Week 2

1. Brian Kieft
 - a. Assisting Yanwu with simulation environment
 - b. Reviewed patch mapping paper
2. Tom O'Reilly
 - a. Worked with Rueda to test Wave Glider front-tracking application on the SMC-2 hotspot payload. Waiting for completion of hotspot Iridium antenna before first sea-trials of application.