

# 901913 - WetWiFi

## Week 51

1. Brent Roman
  - a. OceanComm has the modems again
    - i. They say logging failure was caused by a bad SDcard in one of the modems
    - ii. They are replacing and shipping them back

## Week 50

1. Brent Roman
  - a. First sea trial did not go well. LRAUV's mass shifter jammed and Oceancomm modems could not transfer more than a couple pings. Waveglider did manage to track LRAUV.
  - b. Shipped modems back to OceanComm for analysis of internal logs
  - c. When modems are returned, I will test them by deploying off a pier.

## Week 49

1. Brent Roman
  - a. Streamed video between pair of H150 modems in Test Tank
  - b. Worked with Hobson and Wahl to arrange LRAUV and Waveglider
    - i. Test deployment scheduled for 12/9/22 – 12/12/22

## Week 48

1. Brent Roman
  - a. Received pair of H150 modems and arranged payment of annual leasing fee
  - b. Failed at getting them to run in a bucket or large lab basin 😞
  - c. Managed to get reliable video transfer in the test tank with very careful positioning of transducers.

## Week 47

1. Brent Roman
  - a. Used gstreamer to make LRAUV video feed available on the MBARI web

## Week 44

1. Brent Roman
  - a. Load agreements in place, money allocated, Vehicles supposedly available for early December test. Fingers crossed...

## Week 42

1. Brent Roman
  - a. Still on track for a test deployment of Video Streaming from LRAUV in early December.
    - i. Oceancomm claims they will deliver modems before end of November

## Week 41

1. Brent Roman

- a. Lined up LRAUV and Waveglider for test after Thanksgiving
- b. Got approval to pay Oceancomm in 2022 so we could get modems by then
- c. Confirming with Oceancomm that they can, indeed, deliver in time.

## Week 40

- 1. Brent Roman
  - a. Wahl and Hobson established we have vehicles for test in early December.

## Week 28

- 1. Brent Roman
  - a. Wrote and submitted proposal

## Week 25

- 1. Brent Roman
  - a. Postponed next test until November/December

## Week 24

- 1. Brent Roman
  - a. Planned deployment last week canceled.
  - b. Finally got pricing for OceanComm's subscription model
  - c. Continuing to work on next year's proposal.

## Week 23

- 1. Brent Roman
  - a. OceanComm sent me their updated lease agreement.
    - i. Still negotiating the "special conditions" therein.

## Week 19

- 1. Brent Roman
  - a. Met with Brett, Chris Wahl and Brian Kieft to schedule next test deployment for mid-June
  - b. Wrote 1st draft of abstract for project extension.

## Week 6

- 1. Brent Roman
  - a. First test deployment last Thursday produced real-time video streams from 90 meters
    - i. Only a minute or so as a time because Waveglider and AUV were not tracking
  - b. Returned modems to Oceancomm for firmware update and log evaluation
  - c. Next try, with tracking, tentatively scheduled for late March

## Week 5

- 1. Brent Roman
  - a. Transmitted video from LRAUV to Waveglider in MBARI test tank.
  - b. Deployed Waveglider Hansen and LRAUV Tethys to Portuguese Ridge
    - i. Successfully streamed 640x480 15fps color video from Tethys 60meters below Hansen!!
    - ii. Biggest challenge is keeping LRAUV within the 120 degree cones of the H150's acoustic transducers.

- iii. OceanComm claims the modems max range is 300m. We'd like to verify this.

## Week 4

1. Brent Roman
  - a. Got commitment to extend project funding through early 2022
  - b. Still waiting on LRAUV availability – maybe next week ?

## Week 3

1. Brent Roman
  - a. Extended equipment loan through end of February
  - b. Verified BadWolf video encoder can act as FTP server
  - c. First test deployment with LRAUV and Waveglider scheduled for next week