

901913 - Wet Wifi

Week 50

1. Brent Roman
 - a. Deployed on ventana. Housing flooded. Modems returned to OceanComm.

Week 48

1. Brent Roman
 - a. Finally finished the cable between the Ventana and H150 modem
 - b. Hoping to test long-range H150 on Mars dives
 - c. Working with DJ Osborne on reducing or eliminating subsea multicast traffic
 - i. As this overwhelms the limited modem bandwidth

Week 46

1. Brent Roman
 - a. Working with DJ to test long-range modems on Ventana during MARS cable inspection dives.

Week 44

1. Brent Roman
 - a. Deployed on the miniROV Monday and Tuesday
 - i. High frequency modem works better than long range modem
 - ii. Both struggling with acoustic interference
 1. Likely from the USBL

Week 43

1. Brent Roman
 - a. Purchased and configured Linux based Wago controller
 - i. Fixed a Wago bug preventing hostname from being sent to DHCP servers
 - b. Arranged modem swap with Rachel Carson crew
 - c. Negotiated miniROV dive sharing with Giancarlo

Week 42

1. Brent Roman
 - a. Had to return modems due to a loose transducer
 - b. Should receive replacements before the 22nd for integration onto miniROV
 - c. miniROV broadcast traffic is saturating the acoustic link

- i. Exploring ways the Alana on how to limit this traffic
- ii. Found Linux based Wago PLC100 controller that can filter this traffic
 - 1. However, no time to incorporate this for the Oct 28th test deployment.

Week 40

- 1. Brent Roman
 - a. Johann Voiglander is constructing cables to deploy wetWiFi on miniROV (10/24)
 - b. Fred Flores tasked with making bracketry
 - c. OceanComm says they will ship the update modems back to us this week

Week 39

- 1. Brent Roman
 - a. Working with MiniROV team to integrate a WetWiFi modem onto that platform
 - b. Shipped our H150 modems back to OceanComm so one of them could be repackaged in a 1km depth rated housing.

Week 38

- 1. Brent Roman
 - a. Arranged to repackage one of our H150 OceanComm's modems in 1km rated canister
 - i. For deployment on next month's MiniROV dives with Mola
 - ii. Also will receive a pair of 1km range 50kb/sec modems to evaluate

Week 37

- 1. Brent Roman
 - a. Incorporating MT feedback

Week 24

- 1. Brent Roman
 - a. Working on 2025 proposal

Week 12

- 1. Brent Roman
 - a. Replaced and updated routers on Waveglider and in deckbox
 - b. Tank testing revealed latent networking bug on Galane (DHCP server being switched off)

Week 9

- 1. Brent Roman

- a. Upgraded modems should arrive Thursday.

Week 5

1. Brent Roman
 - a. OceanComms reports they will ship updated modems in a couple weeks
 - b. Met with LRAUV and Wavegliders teams to plan for deployment in mid-March

Week 4

1. Brent Roman
 - a. Verified that OceanComms modems revised end caps can be mounted in LRAUV and Waveglider

Week 3

1. Brent Roman
 - a. Working with OceanComm to refine can design to accommodate depth sensor on cap

Week 2

1. Brent Roman
 - a. Shipped Modems back to Oceancomm for upgrade
 - b. Helped LRAUV team access their AUV dock
 - i. Loaned them an OpenWRT router I'd configured with the needed port forwarding rules