

902004 - Planktivore

Week 29

1. Paul Roberts
 - a. Ahi timestamp restoration

Week 28

1. Paul Roberts
 - a. Tidal data review
 - b. Preparation for Barry lab DP cruise

Week 27

1. Thom Maughan
 - a. Demonstrated Planktivore twice at MidSEC conference
 - b. Deployed Planktivore in research salmon pen near Bergen Norway
 - c. Met with NTNU AURLab team members looking into opportunities for collaboration.

Week 26

1. Thom Maughan
 - a. Attended MidSEC conference. Demonstrated Planktivore V1 with swim tow and live feed from small stream. Conference was excellent with lots of discussion, connections.
 - b. Deployed Planktivore V1 in a research salmon pen near Bergen Norway, collaboration with Tidal.
 - c. Planktivore proposal

Week 24

1. Thom Maughan
 - a. Planktivore V2 'B' is ready for integration on Opah
 - b. Prep and packaging of Planktivore V1 for trip to MidSEC conference and follow on collaboration with Tidal at Salmon Farm in Bergen Norway
 - c. Proposal discussions

Week 23

1. Brent Jones
 - a. meetings

2. Paul Roberts
 - a. Prep for Midsec and Tidal colab

Week 22

1. Thom Maughan
 - a. Planktivore V2 'B' for deep LRAUV Opah has completed leak testing. It will be scheduled for deployment in the next month or so.
 - b. Trip prep for MidSEC conference in Sweden followed by salmon lice detection experiments in Bergen Norway. June 11 to June 27.

Week 21

1. Denis Klimov
 - a. We assembled the instrument and looking into leak testing.
 - b. Need to order some parts as it turned out, some O-ring information in the assembly drawings was missing.

Week 19

1. Brent Jones
 - a. Meeting
2. Thom Maughan
 - a. Planktivore abstract and presentation
 - b. Finalized build of Planktivore V2 'B' for Opah. Helium leak check needed more vacuum than we were comfortable pulling. Did not fill with helium due to potential oscillator risk.
 - c. New plan for leak check is to put in test tank for several days while monitoring humidity

Week 18

1. Brent Jones
 - a. mtgs
2. Thom Maughan
 - a. Final assembly is finished on Planktivore V2B for Opah. Helium leak test was not conclusive due to limits on vacuum inside Planktivore.
 - b. Revised leak test is to put on bottom of test tank for a few days while monitoring humidity.
 - c. Met with planktivore users, met with Alana, submitted 3 year Planktivore abstract

Week 17

1. Brent Jones
 - a. mtg

2. Justin Tucker
 - a. General CFD scaling setup see Overhead

Week 16

1. Brent Jones
 - a. Emergency LRAUV recovery from Packard
2. Thom Maughan
 - a. Weekly meeting. No progress on Planktivore v2 B build
 - b. Working on the Planktivore proposal. Meetings with Monique, Steve H, Francisco, Colleen have all surfaced the need an institutional plankton image data pipeline. Met with Kevin who recommended adding the pipeline effort to the Planktivore proposal

Week 15

1. Denis Klimov
 - a. Assembly drawing for the low resolution optics side is completed; working on the harnesses into the central controller housing.
2. Thom Maughan
 - a. Weekly meeting. Build is on hold waiting for Denis's time
 - b. Meetings with science users to get input for Planktivore abstract.

Week 14

1. Brent Jones
 - a. Deployed Ahi
 - b. Debugging data download script
2. Thom Maughan
 - a. One of the DeepRip2 guest users was running a high cpu compute job that caused alerts on the UPS and had spooled the fans up loud. Trying to figure out if the fan noise is normal...
 - b. Planktivore build is pending work by Denis
3. Paul Roberts
 - a. Planning for MidSEC conference
 - b. Abstract planning

Week 13

1. Brent Jones
 - a. Recovered Ahi and downloaded data
 - b. Created and testing automated data download and mission prep script
2. Thom Maughan
 - a. Weekly meeting, coordinating with Denis
 - b. Working on options for project proposal
3. Paul Roberts

- a. Collab with TidalX planning
- 4. Justin Tucker
 - a. CFD batch run configuration on DeepRip2 for ANSYS and OpenFoam

Week 12

- 1. Thom Maughan
 - a. Planktivore v2 'B' build.

Week 11

- 1. Thom Maughan
 - a. Talked with Kobun on his proposal to gather eDNA on Planktivore. It's easy to add the eDNA 'sponge' as it would be zip tied to the optical extensions.
 - b. Denis is making good progress on final assembly of Planktivore V2 'B'

Week 9

- 1. Brent Jones
 - a. Recover LRAUV Ahi
- 2. Denis Klimov
 - a. Working on assembly notes and checking out the instrument before closing.

Week 7

- 1. Brent Jones
 - a. Deploy LRAUV Ahi
- 2. Thom Maughan
 - a. Poster for OSM26
 - b. Board Bullets
- 3. Paul Roberts
 - a. Ahi 42 deployment support

Week 6

- 1. Thom Maughan
 - a. Worked with Paul on Planktivore V2 maintenance. Paul disassembled the housing, found screws had galled. Need to service screws yearly.
 - b. Removed backup battery, lightened by 480 grams.
 - c. DMO ASO group is preparing Ahi for deployment next week.
- 2. Paul Roberts
 - a. V2A assembly and maintenance

Week 5

1. Thom Maughan
 - a. Weekly meeting
 - b. Working Planktivore v2 'B', aka second build

Week 3

1. Denis Klimov
 - a. Working on the assembly notes for the Planktivore instrument optics.
2. Paul Roberts
 - a. Timestamp correction for canon 2025