

902208 - MiniROV Support

Week 51

1. Alana Sherman
 - a. Piecing together a plan for building up a newer focal stack to allow us a dark fiber
 - b. Worked with Johan to evaluate what we have in our inventory and what is required to build up a second top side focal box.
 - c. Purchasing with year end funds, including stocking up on tilt motor drives that are not obsolete

Week 46

1. Alana Sherman
 - a. Was released from Covid isolation just in time to go on the last day of Fulmar operations on Friday with the Scalable Robotics Group. It was a very successful dive all around.
 - b. Demobilized from the Fulmar on Monday and then rebuilt control room in the lab Monday and part of Tuesday. The vehicle is now operational.

Week 45

1. Alana Sherman
 - a. Providing shore support for logistics and scheduling, also fielding calls as needed for system operation

Week 41

1. Alana Sherman
 - a. Preparing for Fulmar cruise series
 - b. Worked out some issues with GPS connections to Sonardyne/Winfrog/GUI

Week 40

1. Alana Sherman
 - a. Testing new sled for GT
 - b. Tracking down losses on fibers
 - c. Trying to check in software, much fun with git
 - d. Worked with Dale on a couple fixes and plans for fixes post Fulmar cruise

Week 39

1. Alana Sherman
 - a. Continuing testing and prep for upcoming Fulmar cruise

Week 38

1. Alana Sherman
 - a. Spent much of the week troubleshooting small issues with the rewired j-box. Was able to resolve:
 - i. Comms issue with clump due to fiber connection
 - ii. No comms with core j-box micro due to loose wire on a SS relay
 - iii. No power to the heading sensor due to the 5V power wires being put in the wrong slots on the wago thus blowing a fuse
 - iv. Given that we rewired easily over a hundred wires, it all went pretty smoothly

Week 37

1. Alana Sherman
 - a. Testing out the rewired e-pod have narrowed it down to two issues:
 - i. Heading sensor not sending data
 - ii. Cwdm fiber needs reterminating

Week 35

1. Alana Sherman
 - a. Conducting interviews
 - b. Epod wired up again
 - c. Testing re wired epod
 - d.

Week 34

1. Alana Sherman
 - a. A mechanical failure was discovered in the Mini EPod, the fix itself was not difficult but did require removing almost all the wires in the lower half of the housing. James and I are working to build it back up.

Week 33

1. Alana Sherman
 - a. Met with scalable robotics group to discuss new sled
 - b. Reviewed fiber connections and energy budgets
 - c. Going to load test Aux +415V circuit this week, as well as test fiber upgrade port

Week 32

1. Alana Sherman
 - a. Put together preliminary ship schedule for the Mini in 2024

Week 26

1. Alana Sherman
 - a. Working on proposal numbers for Charlie

Week 24

1. Alana Sherman
 - a. Working on hiring

Week 22

1. Alana Sherman
 - a. Delved into tracking down logs. Found logs were recorded but dates on files were erroneous.

Week 21

1. Alana Sherman
 - a. Worked on troubleshooting an issue with the autoheading- turned out to be a fiber issue
 - b. Found issue with logging and timestamps that needs to be resolved

Week 18

1. Alana Sherman
 - a. Out on the Fulmar for Aquarium

Week 16

1. Alana Sherman
 - a. Mobilized the Mini on the Fulmar
 - i. Had some issues with the RAID networking and the video extenders which are always problematic it seems
 - ii. Ordered several spares
 - b. Weather is not cooperating so we have been waiting for wind to abet

Week 15

1. Alana Sherman
 - a. Calibrated heading sensor with help of the Compass lab
 - b. Spent a morning troubleshooting a fiber issue that left us without HD video
 - c. Tore down lab set up of topside electronics in prep for Fulmar mob on Thursday
 - d. Documented connections on topside for Fulmar mob
 - e. Lots of wrangling of help and scheduling between NOAA, the aquarium, and mbarians to get all the schedule logistics set for these three weeks of ship days

Week 13

1. Alana Sherman
 - a. Continuing to prepare Mini
 - i. Debugged heading issue with clump
 - ii. Finally got overlay working on second monitor
 - iii. Set up sonardyne USBL with Winfrog and made sure the nav data is being fed into the main gui
 - b. Starting to write up documentation on starting up the system

Week 12

1. Alana Sherman
 - a. Debugging the heading sensor calibration and comms issues
 - b. Got the sonardyne system up and running
 - c. Still wrestling with the Overlay software

Week 11

1. Alana Sherman
 - a. Working on top side block diagrams of video and computer system connections
 - b. Had some success troubleshooting issues with video issues but still can't get overlay working.

Week 9

1. Alana Sherman
 - a. Found a couple of the ground faults that were detected during last tank tests
 - b. Cleaning up all the cabling in the top side rack
 - c. Still trying to figure out Overlay issues

Week 8

1. Alana Sherman
 - a. Worked through several issues to get the vehicle into the tank for the first time. Issue arose with the USB connection to the belly pack.
 - b. Edited Main GUI source code to replace Mod bus elements with a new library that will not require a second LabView add on license.
 - c. Still need to resolve: ground fault, overlay, autodepth, nav ZMQ strings
 - d. Spoke with Jean from R/V Fulmar and worked out some details for April cruise dates.

Week 7

1. Alana Sherman
 - a. Working on preparing the vehicle for test tank deployments
 - b. Troubleshooting two issues:
 - i. Noise on funnel cam- resolved, was an issue with the Analog to SDI converter
 - ii. Overlay software working but not showing up on display
 - c. Talked with Jean and Wyatt trying to get April dates for the Fulmar in order and figure out logistics like payment, weights of loads, etc

Week 6

1. Alana Sherman
 - a. Continued bringing up the topside control room electronics. We got all the video systems working.
 - b. Began interviews for Mini position
 - c. Met with all MBARI science users for 2023 to discuss cruise plans

Week 5

1. Alana Sherman
 - a. Setting up zoom interviews for Mini hire

Week 3

1. Alana Sherman
 - a. Working with Dale to get the Fulmar topsite set up running. This involves rewiring the entire topside electronics
 - b. I am also taking this opportunity to label and document as I go
 - c.

Week 2

1. Alana Sherman
 - a. Putting together top-side control center for MiniROV Fulmar days with Dale. We are rewiring the system after its return from the Arctic.