

Mark Chaffey

Week 52

- 300082 - DMO Support - Wave Glider
- 901221 - Midwater Time Series
- 901913 - Demonstrating high-speed communication with a submerged AUV
- 902001.99 - 4K ROV Camera Development
- Overhead
- Out of Office

Week 51

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Week 50

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Week 41

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Week 40

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Week 39

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- 902001.99 - 4K ROV Camera Development
 - Camera is complete with the exception of a planned firmware update in a few weeks.
 - Tank testing showed excellent optical performance.
 - Dry tested on Ventana and the video plant (displays, VARS, M3RS) all worked as expected.
 - Diving on Ventana next week, then migrating to the Ricketts in late October for permanent installation.



- Overhead
- Out of Office

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Week 32

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- 901913 - Demonstrating high-speed communication with a submerged AUV
- 902001.99 - 4K ROV Camera Development
 - Camera, lapbox and rack box hardware are all DONE!!!!
 - The full optical calibration work has been done and is complete.
 - In air optical testing is complete.

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- ## Week 31

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- Out of Office
 - Will be OoF May 1 - 22 and unavailable.

Week 30

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Week 21

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Week 20

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Week 19

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Week 18

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Week 17

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Week 16

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Week 15

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Week 14

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 - Helped Tom with port assignments and general setup and trouble shooting.
- 901221 - Midwater Time Series
- 901913 - Demonstrating high-speed communication with a submerged AUV
- 902001.99 - 4K ROV Camera Development
 - Finishing final rackbox mechanical drawings.
 - Had one 3D printed part that was not robust enough - sent out for re-manufacture in CNC aluminum.
 - Test fitting chassis parts against Sony PCB's. Sent alignment cone to DSP&L for test fit.
 - Test bed for SW development built up thanks to Jose & Co.
 - Paul Roberts working on calibration fixturing.
- Overhead
- Out of Office
 - Will be OoF May 1 - 22 and unavailable.

Week 13

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- 901221 - Midwater Time Series
- 901913 - Demonstrating high-speed communication with a submerged AUV
- 902001.99 - 4K ROV Camera Development
 - Built up test bed with camera and topside PCB's for software development. Currently getting the switches and controls wired in.
 - In coordination with the ROV pilots we finalized the lapbox design and I've sent the top panel out for fabrication and lettering.
 - Finalizing the last two drawings of the control room rack box and ordering control room cables.
 - Modified one camera chassis part that was too fragile in printed polymer and sent it out for CNC fabrication.
 - Machine shop is cranking away on many parts and I hope to have a full set in a few weeks.
 - DSP&L has completed pressure testing of our housing and dome, however when measuring the dome centration they put a few small scratches in the dome so they are going to replace it and repeat the pressure test. We should have the housing by the end of April.
 - The optical adapter is still being optically checked and painted with anti-reflection blacking on a key surface. We should have this part in hand by the end of April also.
- Overhead
- Out of Office

Week 12

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Week 11

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Week 10

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Week 9

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- 902001.99 - 4K ROV Camera Development
 - Completed electrical design of lapbox and rack box for control room.
 - All components are on order for these two items.
 - Completing mechanical cutout design for lapbox and rack box.
 - PCB's for the camera and the lapbox are in fabrication.
 - MBARI built mechanical components are underway in the shop.
 - Housing and dome are undergoing "operational" final pressure testing at DSP&L with the completed housing and all connectors mounted.
 - Next: work on finalizing the calibration plan.
- Overhead
- Out of Office

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Week 6

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Week 5

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Week 4

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- 902001.99 - 4K ROV Camera Development
 - Finalised PCB and hardware interface.
 - Finished all camera mechanical and electrical drawings (74!).
 - Created assembly drawings and BOM and ordered all small hardware parts.
 - Bid out camera sheetmetal parts and one machine part and placed order.
 - Finalized 12 G coax connector layout and specifications.
 - Prepped additive parts and painted.
- Overhead
 - Annual review.
- Out of Office

Week 3

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 - Optical adapter machine parts and glass are done and passed inspection. Final assembly in Massachusetts is dependent on when the technician can get in the shop.
 - Camera Titanium housing machining is complete and it is being prepared for pressure testing.
 - Optical dome anti-reflection coating test is complete (with coupons) and a dome is being prepped for coating. The large dome size makes this a complex operation.
 - All mechanical design and drawings for parts for the camera are done and in the shop (yea!). A few parts are being bidded out. Tool path programming and material ordering is on-going during the quarantine.
 - Assembly drawings showing all parts placement are complete for the camera.
 - On the electrical side, the camera PCB layout is complete and the board is out to fabrication.
 - Next: complete lapbox and topside interface designs.
- Overhead
- Out of Office

Week 2

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Week 1

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