

Rob McEwen

Week 52

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902101 - LRAUV Technology Development and Fleet Operations
- 902201 - John Ryan's Hydrophone Deployments
- Overhead
- Out of Office

Week 51

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Week 38

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Week 37

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Week 36

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- Overhead
- Out of Office

Week 35

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- Out of Office

Week 34

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- Overhead
- Out of Office

Week 33

- 600034 - Precision Control Technologies for ROVs and AUVs
 - Integrating Kent's SimMB1Svr into Simulator.cc. Copied the guts of SimulatedMbTrnRecv.cc into Simulator::multibeam(). I'm working through the bugs now, expect to be done tomorrow. I may re-architect this later because this approach should work, but is messy.
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- 902201 - John Ryan's Hydrophone Deployments
 - John's moorings were deployed yesterday. Apparently all went well.
- Overhead
- Out of Office

Week 32

- 600034 - Precision Control Technologies for ROVs and AUVs
 - Integrating Kent's SimMB1Svr with Simulator.cc
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
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- 902201 - John Ryan's Hydrophone Deployments
 - Simulated the descent rate and the distance the release travels after the anchor lands, for both the small and large rigs.
- Overhead
- Out of Office

Week 31

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- Overhead
- Out of Office

Week 30

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- Overhead
- Out of Office

Week 29

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- Overhead
- Out of Office

Week 28

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- Overhead
- Out of Office

Week 27

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- 901101 - Seafloor Mapping
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- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
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- Overhead
- Out of Office

Week 26

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- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
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- Overhead
- Out of Office

Week 25

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- Overhead
- Out of Office

Week 24

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- Out of Office

Week 23

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- Overhead
- Out of Office

Week 22

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- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
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- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 21

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 20

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
 - Verified equations of motion for simulating John Ryan's buoy/anchor drop.
 - Simulated buoy travel after anchor landing. (Andy's code).
 - Now looking at Open Robotic's added mass code for the Power Buoy simulator.
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Cleaning up Believer 3 build.
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 19

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902101 - LRAUV Technology Development and Fleet Operations

- Overhead
- Out of Office
 - Vacation April 29 and May 11-13.

Week 18

- 600034 - Precision Control Technologies for ROVs and AUVs
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- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office
 - Vacation April 29 and May 11-13.

Week 17

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- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office
 - Vacation April 29 and May 11-13.

Week 16

- 600034 - Precision Control Technologies for ROVs and AUVs
 - Preparing to add Trn to the ROV simulator.
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Motors and ESC's now responding.
 - Painting Believer 3 this week.
 - Setting up telemetry.
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office
 - Vacation April 29 and May 11-13.

Week 15

- 600034 - Precision Control Technologies for ROVs and AUVs

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- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office
 - Vacation May 11-13.

Week 14

- 600034 - Precision Control Technologies for ROVs and AUVs
 - Talking with S. Rock about an ROV simulation.
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Working through the Pixhawk 4 setup for Believer #3.
 - Re-installed Mission Planner and got it to work on Blackhawk-VM.
 - Put on the linkages, verified that they work.
 - Rehinged the Stbd elevator with improved hinge locations.
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office
 - Vacation May 11-13.

Week 13

- 600034 - Precision Control Technologies for ROVs and AUVs
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- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 12

- 600034 - Precision Control Technologies for ROVs and AUVs
 - Reworking my diagrams to incorporate mbTrnUpd8 and mbtrnpp.
 - Planning to add lastLat/Lon feature to WaypointDepth as discussed with Dave c.
 - Planning to adjust offset code to retain its value when disableTrn is set.
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy

- Made a version of Matlab radar processing code that works with the Garmin. At this point it only plots the data.
- Roof data appears mostly circular. The only wave consistently visible is the beach break to the right by the harbor entrance.
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Tom O and I were finally able to reflash the transmitter, the embedded radio, and the receiver and get them to bind. So the transmitter will now bind to either B2 or B3.
 - The next step is to zero the servos and connect the linkages.
- 902101 - LRAUV Technology Development and Fleet Operations
 - Planning to look at Tethys data to predict range.
- Overhead
- Out of Office

Week 11

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office
 - 10 March Thursday
 - 18 March Friday

Week 10

- 600034 - Precision Control Technologies for ROVs and AUVs
 - Participated in Caress TRN sea days.
 - Working on a few code improvements identified during the dive.
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901405 - PowerBuoy
 - Working with Eric to modify Matlab code to read the latest Garmin radar format.
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Believer 3 now contains all major electronic components (receiver, telemetry radio, GPS, etc.) necessary for flight (no payload), except the parachute servo.
 - Starting the bring-up and checkout process today.
- 902101 - LRAUV Technology Development and Fleet Operations
 - Will examine recent Tethys data for power consumption and maximum possible range.
- Overhead
- Out of Office
 - 10 March Thursday
 - 18 March Friday

Week 9

- 600034 - Precision Control Technologies for ROVs and AUVs
 - Participating in Dave's Axial test dives at Portuguese Ledge. The objective is to test mbtrnpp and Mbtrnupd8 and the new Resons, on both Mappers.
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Obtained Frsky receiver.
 - Most electronic components are plugged into the Pxbhawk, but not mounted. These include the receiver, the telemetry radio with embedded Max3232,, the power distribution board, and the servos.
 - James is mounting the pitot tube and board.
 - Next is to power it up, test the receiver and telemetry, center the servos, and attach the linkages for the ailerons and rudder/elevators.
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 8

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
 - Tested Nav440 Ahrs magnetic calibration procedure.
 - Reworked Matlab code to read Eric's new data format generated by the buoy.
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Assisted Jose with monokoting Believer 3.
 - Hinged the ailerons and rudders/elevators.
 - Remounted the Pxbhawk.
 - Working with James (and others) to get the receiver cable made with the embedded MAX3232 inverter.
 - All the components save the pitot tube and parachute release are plugged in and ready to test. Will try the first power-up this afternoon.
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 7

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 6

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
 - Will try better color scaling on the radar plots to see if we can make the wave crests more evident (Andy).
 - Will try to look at scans taken on wavetops to see if the data is better and also how far until the next wave (Andy).
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Discovered that the plane had an unusually large angle of attack on the unsuccessful catapult launch. It was 25 degrees. This implies that the main wing was stalled, which would explain why the plane didn't fly. However, the plane is held securely by the launch mechanism.
 - Exploring the theory that the launch flange tore off the plane during the catapult, or partially tore off, explaining how the plane could pitch up while still attached.
 - Assisted in repairing Believer 2 by relaminating (re-covering) the nose.
 - Got Mission Planner to run on my VM, and talk to the 915 radio and to the plane.
 - Now running some whole system checks in the lab.
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 5

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- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
 - Annual review
- Out of Office

Week 4

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
 - Got a first version of Matlab wave-crest prediction code working with Eric's interface.
 - Starting to look through the voluminous radar data. So far I can't find any useable data.
 - Paragon data was much better. Will try to determine why.
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Preparing for flight tomorrow
- 902101 - LRAUV Technology Development and Fleet Operations
 - Plotted latest Triton run, analyzing power and sonar pointing problem.
- Overhead
 - Annual review

- Out of Office

Week 3

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
 - Reworking Matlab code to read Eric's new data format.
 - Starting on Ahrs mounting and magnetic calibration.
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Believer 3
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 2

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
- 708167 - WEC Dynamics and Control
 - Reworking Matlab code to read in Eric M's radar data format.
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Meeting + working on Believer 3 build.
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office

Week 1

- 600034 - Precision Control Technologies for ROVs and AUVs
- 708164 - Integrating efficient and dependable wave power generation
 - Working with Eric M. to read radar data into Matlab
- 708167 - WEC Dynamics and Control
- 901101 - Seafloor Mapping
- 901513 - Targeted Sampling by Autonomous Underwater Vehicles
- 901902 - Unoccupied Aerial Vehicles for Science, Operations, and Outreach
 - Preparing to switch from Believer 3 build to repairing Believer 2
- 902101 - LRAUV Technology Development and Fleet Operations
- Overhead
- Out of Office