

902010 - Mesopelagic LRAUV

Week 38

1. Jon Erickson
 - a. Finished a design for the 2kg drop weight.

Week 37

1. Jon Erickson
 - a. Still working on the drop weight assembly.
 - b. Will start the strain gauging of the composite tube as time allows.

Week 34

1. Jon Erickson
 - a. Aaron is starting glue up on the strain gauges on one tube.
 - b. Working on the drop weight changes necessary to get a 2 kg. weight in.

Week 33

1. Jon Erickson
 - a. Still working on weight and balance. Means re-design on sub-assemblies that we did not want to change. Chassis, VB system, Drop weight...

Week 31

1. Jon Erickson
 - a. Working on weight and balance incorporating the 1500m EyeRis Camera and Strobe.
 - b. The pressure tubes (Hulls) have arrived from Amalga. There's one in the LRAUV lab. Next step is strain gauges.

Week 30

1. Jon Erickson
 - a. Working on trim and ballast for the preliminary pressure hull and assembly.

Week 28

1. Jon Erickson
 - a. Carbon Fiber PV tubes are shipped. The shop will make the test end caps from Aluminum bar stock, 4" thick.
 - b. Proposals

Week 24

1. Jon Erickson
 - a. Integrating the new Thruster motor controller into Dp motor tube.

Week 23

1. Jon Erickson

- a. Adapting LRAUV parts to the deep vehicle layout. Still waiting on AMALGA for the carbon tubes.

Week 19

1. Jon Erickson
 - a. Scaling up parts.

Week 18

1. Jon Erickson
 - a. Waiting on the tubes from Amalga

Week 17

1. Jon Erickson
 - a. Waiting on the Carbon fiber tubes from Amalga.

Week 14

1. Jon Erickson
 - a. Changing drive train sizes driven by Mag Coupling change.

Week 11

1. Jon Erickson
 - a. Assembly design for pressure test (heavy endcaps!)

Week 10

1. Jon Erickson
 - a. P.O. for Carbon fiber pressure hull to Amalga Composites this week.

Week 9

1. Jon Erickson
 - a. Waiting on a Quote from Amalga for the pressure hull tube.
 - b. Some re-design to allow for the larger size. (VB, Thruster motor, Drop Weight)

Week 8

1. Jon Erickson
 - a. Waiting on a quote for the pressure hull tube - 13" DIA. x 40" long

Week 6

1. Jon Erickson
 - a. Trying to come up with a test protocol and the hardware for the pressure case tubes (13 inch I.D. x 44 inches long).

Week 5

1. Jon Erickson
 - a. Migrating VB system to MesoP, with a size change to the reservoir from 1 liter to 2 liter. New Bellofram diaphragm & dimension changes to half the parts. Taking longer than I expected.

Week 4

1. Jon Erickson
 - a. Deep into migrating parts and assemblies from LRAUV to MesoP. There will be size changes for the VB and Drop Weight.

Week 3

1. Jon Erickson
 - a. Working on the Buoyancy for the vehicle. Trading length for displacement and wall thickness, then VB system volume and drop weight mass.

Week 2

1. Jon Erickson
 - a. Working on the nose shell and tail shell mod's to make them fit and prove we can get all the sensors in place.