

Ocean Visualization
Wednesday, May 28, 2011
10 am Ocean View Conference Room

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- Multibeam test data
 - Hans working on computer hanging during data logging
 - Reson has a software update and has suggested moving away from RAID 1.
- Camera optics and housings
 - Have a corrective optics design, but building it takes longer and costs a lot.
 - Will use flat port with a 50 degree field of view for the June ROV days.
 - Will work to get the corrective optics for a 90 degree field of view for the October ROV days.
 - Cameras and strobes set up in lab, will now work to integrate.
 - Need to define the camera spacing
 - Verging?
 - Some relevant documents/tables are in project library
 - Need to build fig for camera calibration
 - Checkerboard pattern made using plastic sheets
 - Build on the existing rig.
 - The ultimate field of view will be 5 m, but we will have to use a smaller target and move it around during calibrations
 - Probably use a 2 m or so target.
 - Run from 1 m to 3 m vertical
- Power Can
 - Need to add penetrators to power housing – one endcap has only a drain plug.
 - Need to add two penetrators for strobes and one for Kearfott power
 - Want to make a board that has the following:
 - DC Power supplies from 110 VAC – 48V for multibeam + dual 12V (one for strobes and one for cameras) + 24V for the Kearfott
 - Optoisolation for the camera and strobe triggers
 - Move to GigE switch in this housing
- Camera logging computer
 - URI software running and acquiring images.
 - Using command line to operate things
 - Concern regarding data acquisition rate.
 - Can record one pair of images each 6-7 seconds
 - Shooting for 1 Hz capability
- Larry wants to get started on the mounting plate for the toolsled
 - Need to define the range of camera mounting distances and verging

