

Ocean Visualization
Wednesday, May 13, 2011
10 am Ocean View Conference Room

David Caress, Rich Henthorn, Brett Hobson, Steve Rock, Hans Thomas

- We have delayed the Ventana dives scheduled for June 6-9 to after the Zephyr Northern Expedition
- We are now scheduled for August 29-September 1
- We still plan to get wet in June, but in the test tank.
 - Will do tests of full rig
 - Probably put 3m legs on rig
 - Will use the whole toolsled
 - Move target relative to cameras
 - Will do this twice since we'll have flat port cameras in June and then the wide angle cameras in August.
- Multibeam
 - Need to do update and change filesystem
- Power Can
 - Eric working on the triggering circuit
 - Need power converters for 12V, 24V, 48V
 - Will build a single board with triggering and power
 - Hans, Eric, Duane
 - Board fab cost about \$1000
 - Wet cables
 - Bulkheads here, cables within a few days
 - Endcap – Larry will do this after finishing work on a cable laying sled
- Tether connectivity
 - Eric looking at media converters for getting 1 Gbit through the tether
 - Requires rewiring in a Ventana housing and redoing the Ventana host cable
 - Cost \$1200 or so
- Camera controls
 - Rich has achieved 1 Hz easily with 1 Gbit connection, and achieved 1 Hz with 100 Mbit using a netgear switch
 - Required changing the streaming parameter on the cameras and increasing the packet size
 - There may be more issues when we run through media converters and fiber optic.
 - Sometimes (10%) the slave image does not come through
 - Perhaps want to do software triggering as opposed to internal timing
 - Probably going to run slower than 1 Hz due to strobes

