



Jason Debrief Summary - 2010



1) Experienced major problems on Kilo Moana

- New CTD winch/crane system had catastrophic electrical failure
- Damaged ship's bow-thruster controller (and spare on board did not work)
- Lost 2 dives due to these ship problems

The captain and expedition leader worked together to assure that we could safely launch and recover without the bow thruster - the primary issues being entanglement with an active port propeller and limited maneuverability.

- 8 of 9 dives conducted without bow-thruster

2) Jason vehicle issues

- Jason worked exceptionally well on most dives
- Lost 2 dives due to Medea/Jason problems

We had a problem with a thruster motor damaging the motor controller resistors on two dives. This has been repaired.

- But last dive saved due to heroic repair at sea

Damaged transformer due to carbon build up in the transformer box. Not typically spared and first failure of this sort in 8 years. Repaired the toroid and continued operations. Detailed failure report pending.



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3) Navigation

- USBL was excellent. Consistently had errors >5 m at 550 m depth. Huge improvement.

Mounted USBL on KM retractable stem, and Octans on top of stem

4) Issues for community feedback

- What is the HDTV upgrade plan and has there been user feedback solicited?
- How will HD video be accessible for science?
- ROPOS solution: real-time recording of MPEG2 compressed HD video (~50 Mbit/s) to hard disk using a rack-mounted computer system