



# 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