

Summary of 2018 *Jason* Debrief

2 Cruises, 2 Debriefs,

Jason Debrief – Operational Issues

- Tether issues while working in single body mode at depths $>4000\text{m}$ caused significant issues related to multiple aspects of vehicle deployment, including multiple cable re-terminations.
- One cruise require multiple tool sled swaps for it's operations; these were deemed more difficult due to current configuration of Jason's mechanical system for swapping tool sleds at sea.

Jason Debrief – Vehicle equipment

- Manipulator issues related to oil leaks cause early dive terminations.
- New 4K camera developed an oil leak that resulted in loss of camera for remainder of cruise.
- New Sulis camera provides excellent imaging and improved operator controls, but does have a longer lag time between images.
- Small improvements to overall QA/QC of imagery and training of scientists would be appreciated.

Jason – Ship Issues

- Lack of ‘clean power’ from ship to Jason control van resulted in a dive termination, and return to the beach to acquire a generator; Jason team did an excellent job responding to these issues.
- Elevator was lost permanently during recovery, due to ship losing track of it close to surface.

Jason – Team Operations.

- Level of pre-cruise planning should be evaluated with regard to the complexity of the at-sea operations; with more complex missions requiring additional planning.
- Overall, mobs and demobs went well.
- Data hand-offs during, and at cruise end were good.
- New control van was widely praised.
- EL made an excellent weather call on one cruise; on another weather calls were judged conservative.