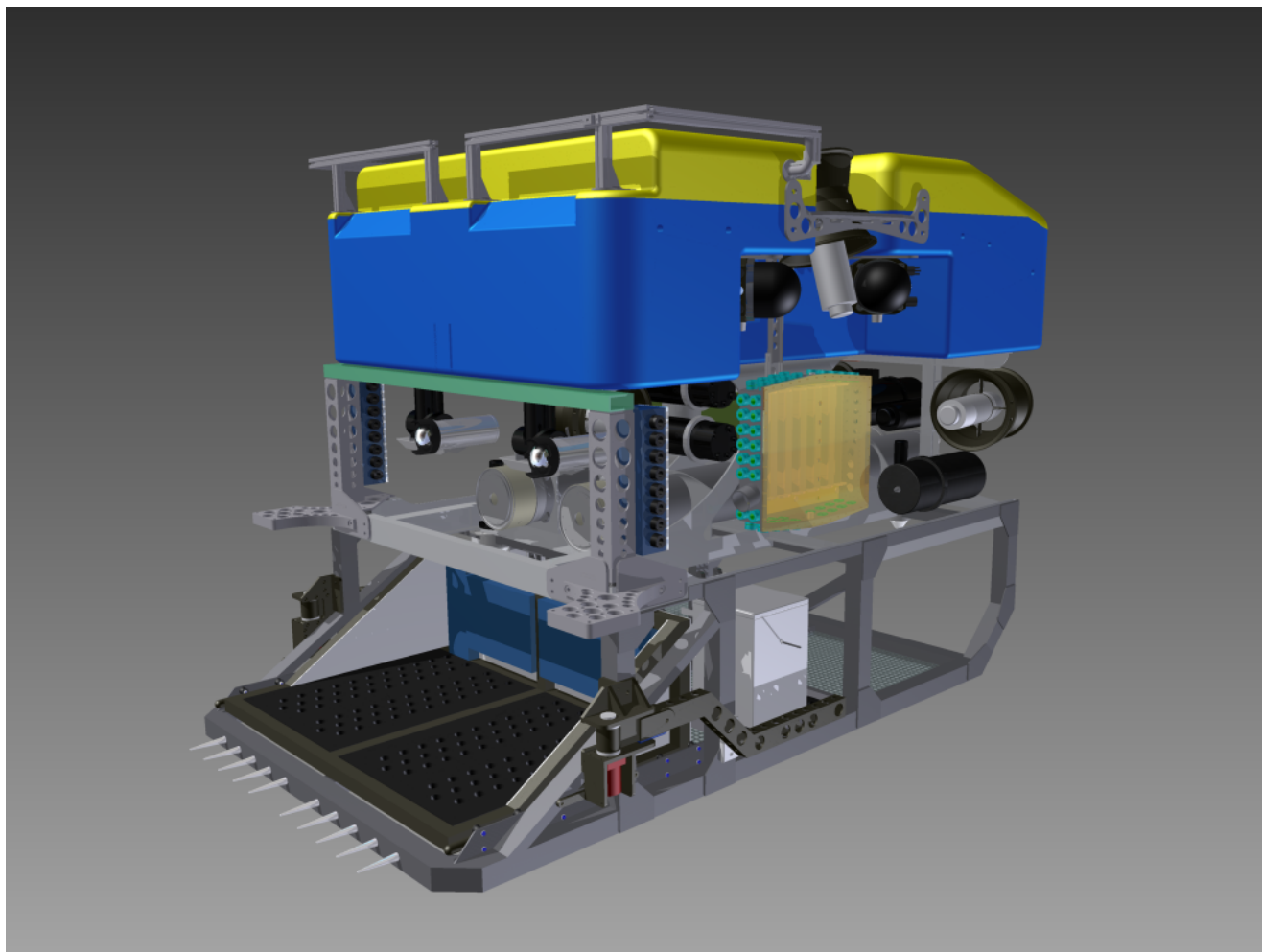




Jason Upgrades OOI Upgrade



OBJECTIVE:

Modifications to the *Jason* system to enable routine operation and maintenance of OOI/RSN components



Jason Upgrades Details



- New Jason frame for thru-frame lifts up to 4,000 lbs.
- New heavy lift tool skid with ISO latches
- New science skid with increased science payload
- Short turn around skid swaps
- Increased flotation to offset frame weight increases
- Single body ops, umbilical direct to Jason
- New umbilical BS 70,000 lb.
- New LARS crane with increased capacity
- Mods to AHC winch for new umbilical
- Improved serviceability of vehicle components



Jason Upgrades Test Cruise



Goals;

- Primary; deploy/recover RSN test article to 3000m
- Test upgraded Jason systems;
 - LARS
 - Rapp winch AHC
 - .84 cable
 - Torque?
 - Jason heavy lift skid
 - Lift skid latching mechanisms
 - Lift skid winch
 - Under Jason elevator
- Familiarize personnel with single body ops and tasks associated with RSN and ONC work



Jason Upgrades Test Cruise, Cont.



Accomplishments;

- Latched/unlatched RSN test article 30 times to 3340m
 - No failures of the latches or technique.
- Cable torque characteristics as expected
 - Jason and a package 3340m let torque spin out
 - From then on it was pretty easy to deal with
- Deployed under Jason elevator several times
- Tested lift winch
 - Lifted elevator up into the latches.
- Learned single body ops
- Practiced LARS
- Integrated RIB



Jason Upgrades

LARS



The LARS worked well

Future modifications include;

- Decrease height of docking bell to create compliance for latching
- Rework of the slack tensioning air system
 - Re plumb the Roto-Seal to eliminate hydraulic bleed-over into air
- Modification of the pedestal to capture the cable
- Making height of the pedestal sheave adjustable to avoid shimming
- Complete remote control setup
- Complete snap load attenuation (SLA) system (nodding boom)
- AHC on the winch is working well
- LW error is fixed



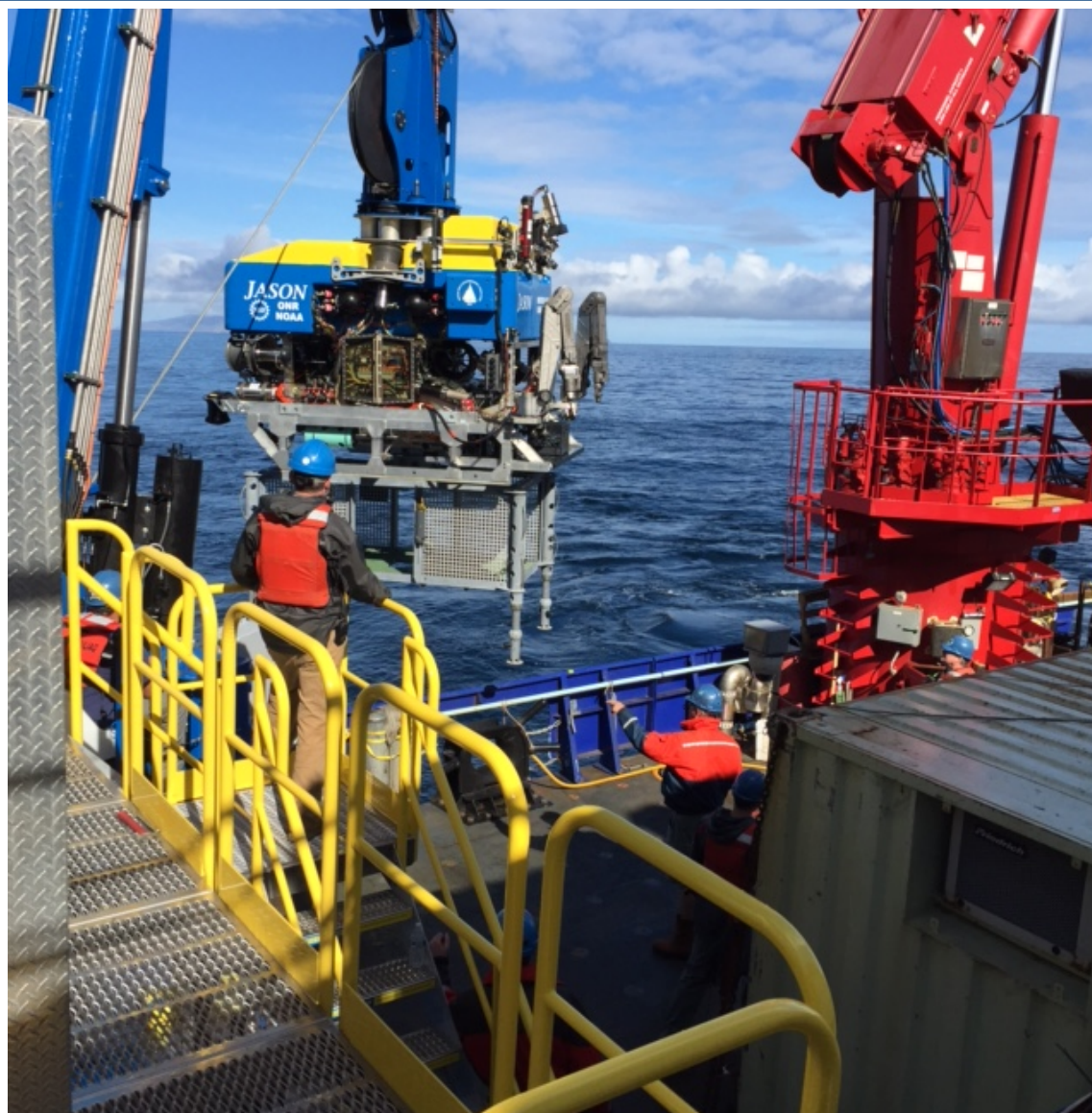
Jason Upgrades Test Cruise Dives



Dive No.	Dates	Max Depth	Hours Descending	Hours Ascending	Hours on Bottom	Hours in water	Time On Deck	Time on deck not available to science
J2-867	2016/4/9	78	00:23	00:14	00:32	01:09	na	na
J2-868	2016/4/9	78	00:18	00:18	00:48	01:24	17:29	na
J2-869	2016/4/9 - 2016/4/10	510	00:44	00:31	01:33	02:48	02:13	na
J2-870	2016/4/10 - 2016/4/10	516	01:12	00:58	00:49	02:59	13:40	na
J2-871	2016/4/10 - 2016/4/11	1200	01:13	01:01	00:52	03:06	02:47	na
J2-872	2016/4/12	3340	06:20	02:29	01:08	09:57	20:51	na
J2-873	2016/4/13	520	00:50	00:45	02:34	04:09	17:53	na



Jason Upgrades RSN Test Article





Jason Upgrades Under Jason Elevator

