

# Thompson Mid-life Update

Doug Russell  
UW Mgr of Marine Operations

# Timeline - Milestones

- ✓ Contract awarded 24 August 2015
- ✓ Thompson finishes science 24 May 2016
- ✓ Entered shipyard 16 June
- ✓ First seismic compressor removed 28 June
- ✓ Drydocked 15 August
- ✓ First generator set removed 19 August
- ✓ First new generator set onboard 22 September
- ✓ Undocked 25 October
- Shipyard complete Oct 2017
- Shakedown cruise late Oct/early Nov 2017
- Return to science late 2017

# Major Issues

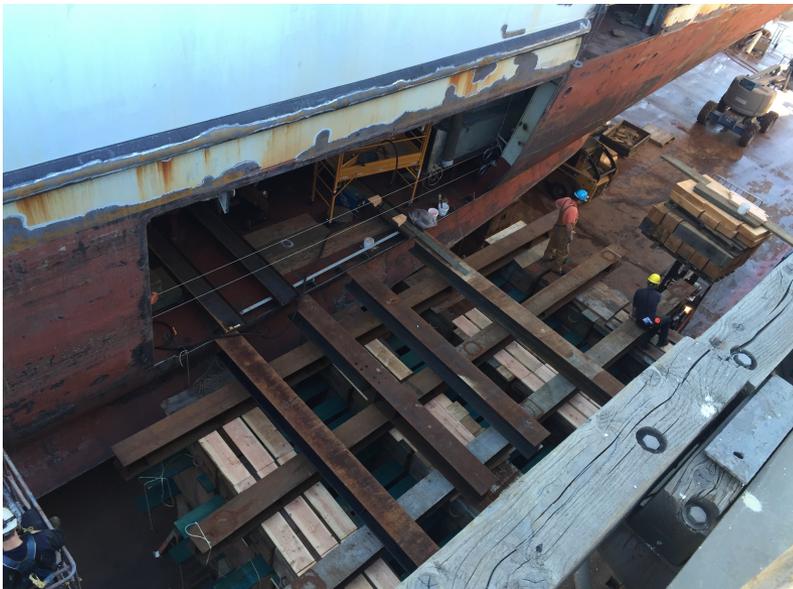
- Propulsion Motors
- Z-drive Lower Gear Box
- Steel repairs
- Replaced more piping than anticipated
- Couldn't re-use old cabling
- Extensive crane repairs
- Changes even more expensive than anticipated
- Late start of shipyard's design sub-contractor
- Slow ramp up of shipyard project team



Shortly after arrival at Vigor



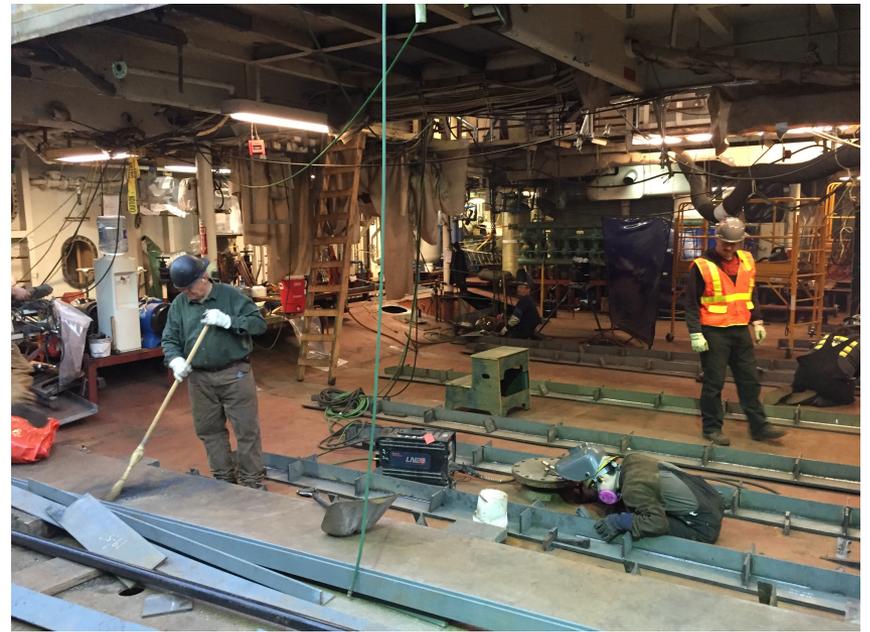
1<sup>st</sup> seismic compressor coming out



Ready to remove the generator sets



1<sup>st</sup> generator set out

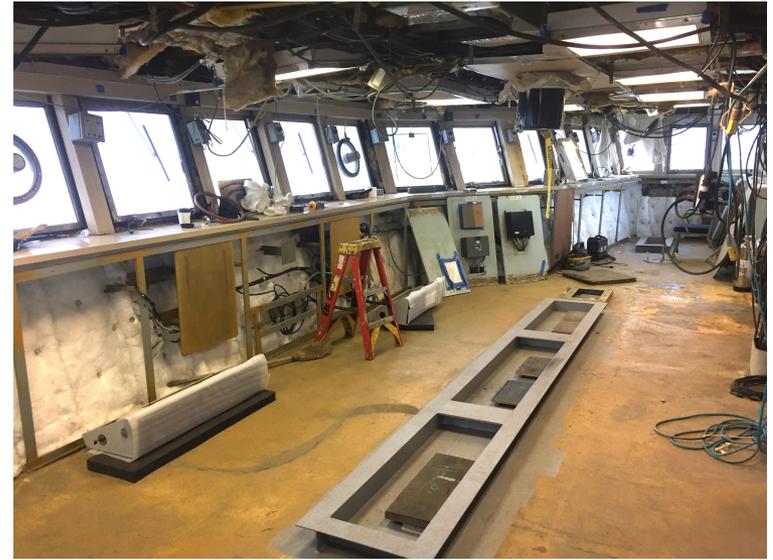




First new generator set being moved into place



EM-302 being replaced



Bridge gutted & prepped for new consoles



5/31/17 Blasting the aft main deck



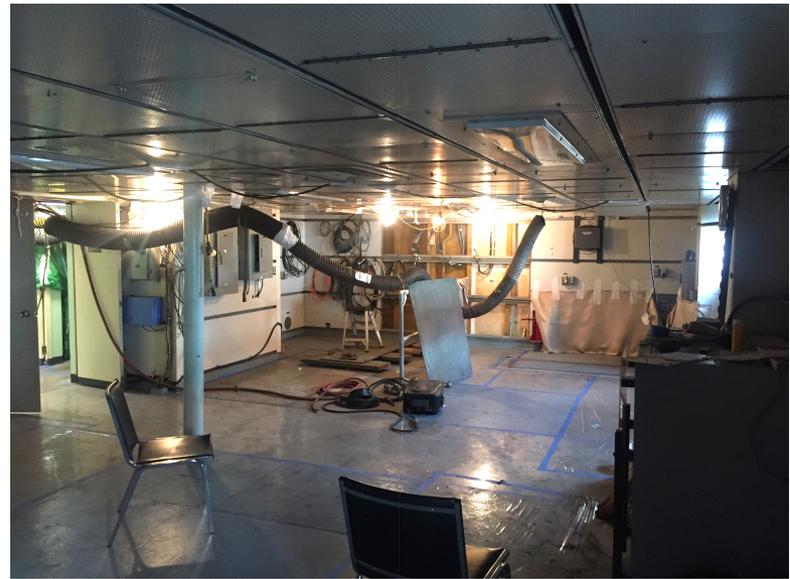
Ballast tank before blast & paint

# Bad old stuff – piping & wires

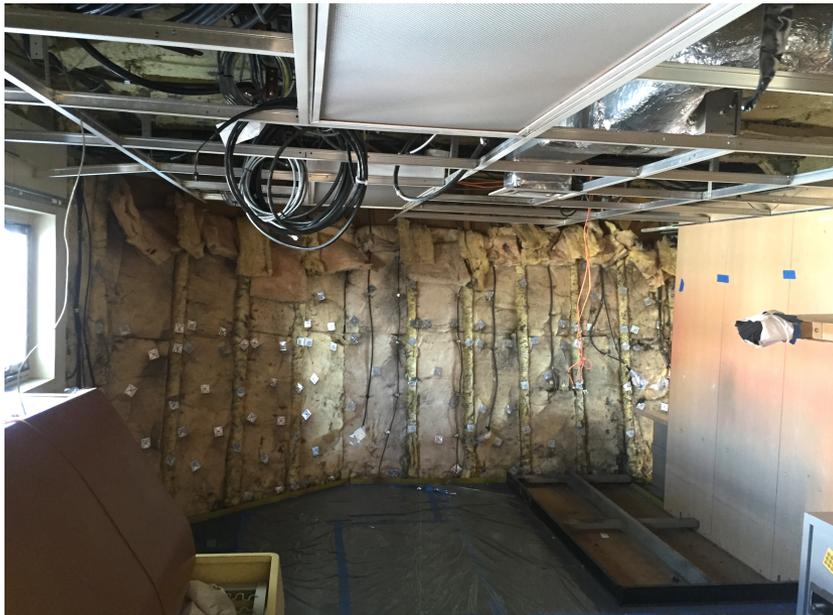




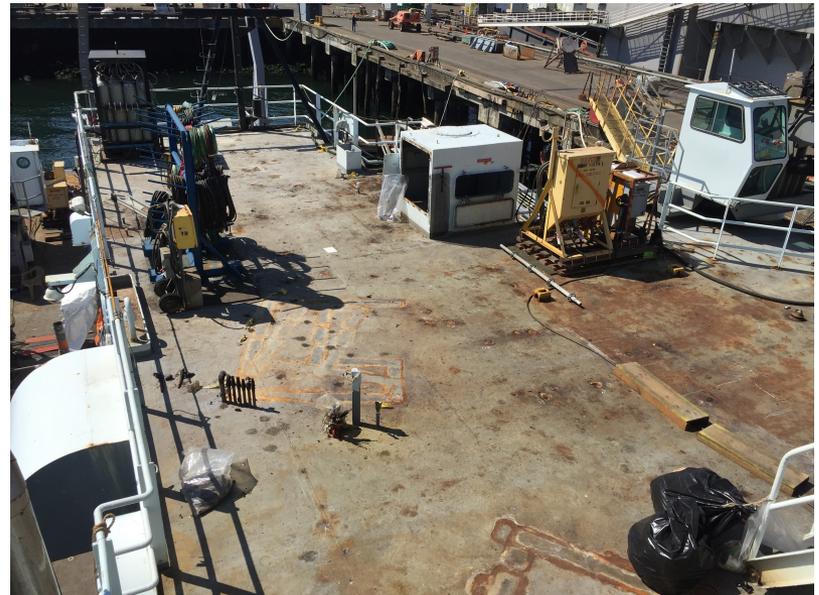
Badly corroded vent ducting



Computer Lab gutted



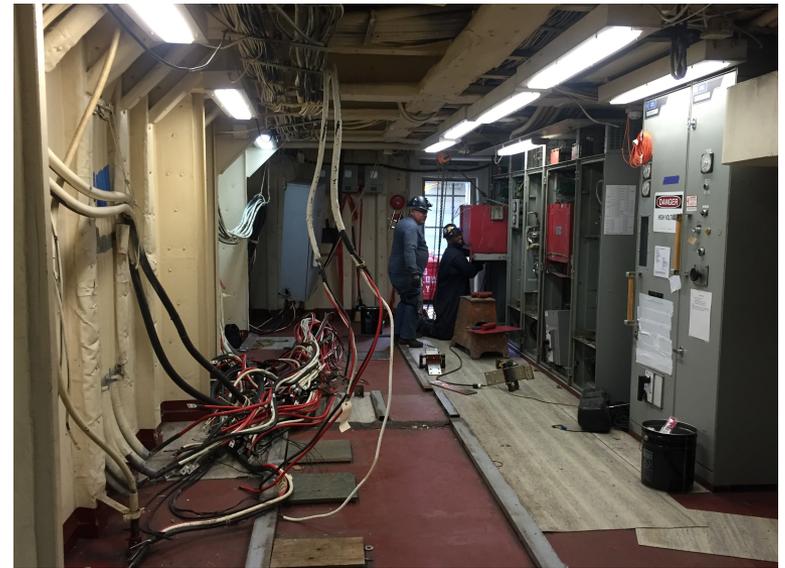
Senior Scientist S/R



Heavily corroded 02 Deck



New Main Control Console in place



Old Switchboards & Drives being removed



A-frame refreshed / upgraded



New switchboards in place



New drainage piping for head modules



New firemain piping



5/31/17 New instrument well



UNOLS FIC Summer 2017 Transducer Void "refreshed"



Refurbished hydro-winches in place



Cables prepared for feeding into switchboards



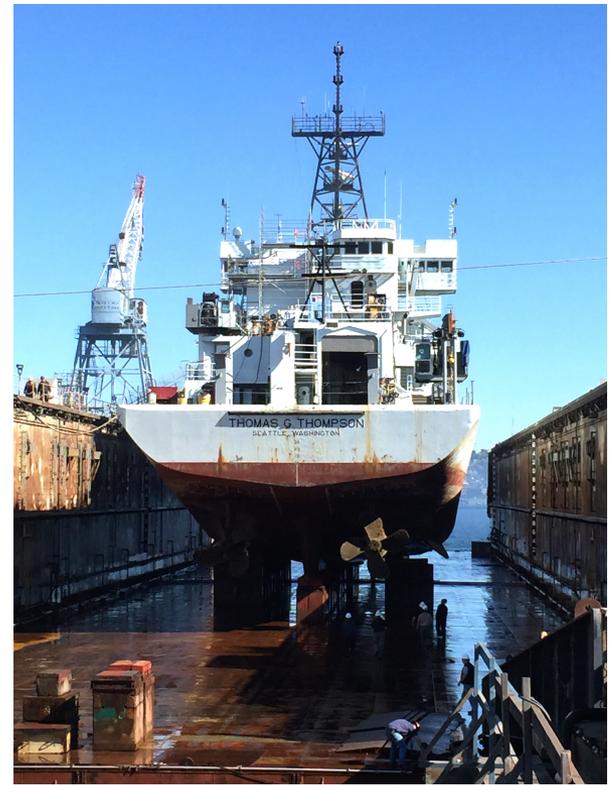
Cable connections in new generator



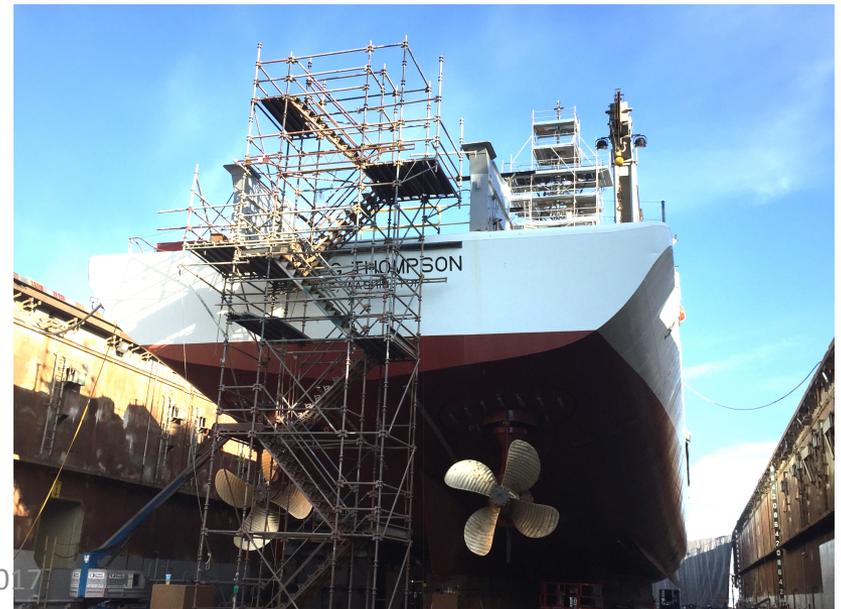
New piping systems



Looking tired  
& worn out



Starting to  
look  
refreshed





Back alongside – with a lot more work to be done