

National Marine Facilities – Sea Systems

Geraint West Director National Marine

Facilities





http://noc.ac.uk

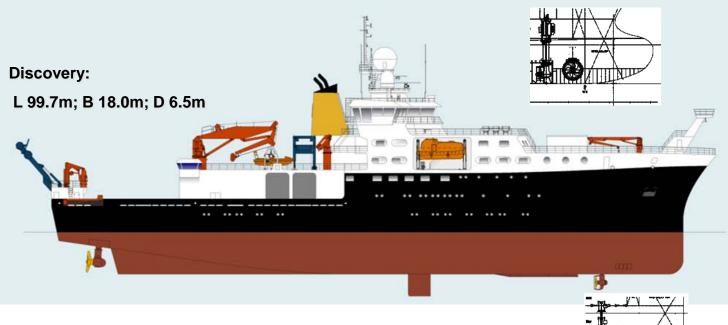


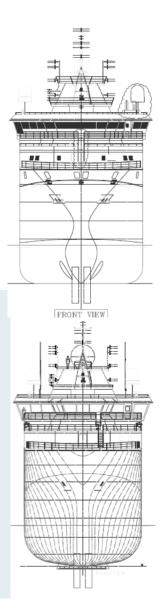


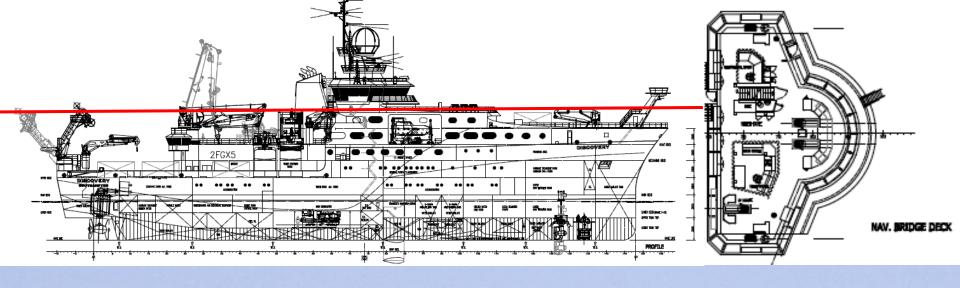
Naming by HRH Princess Royal – 10 Oct 2013



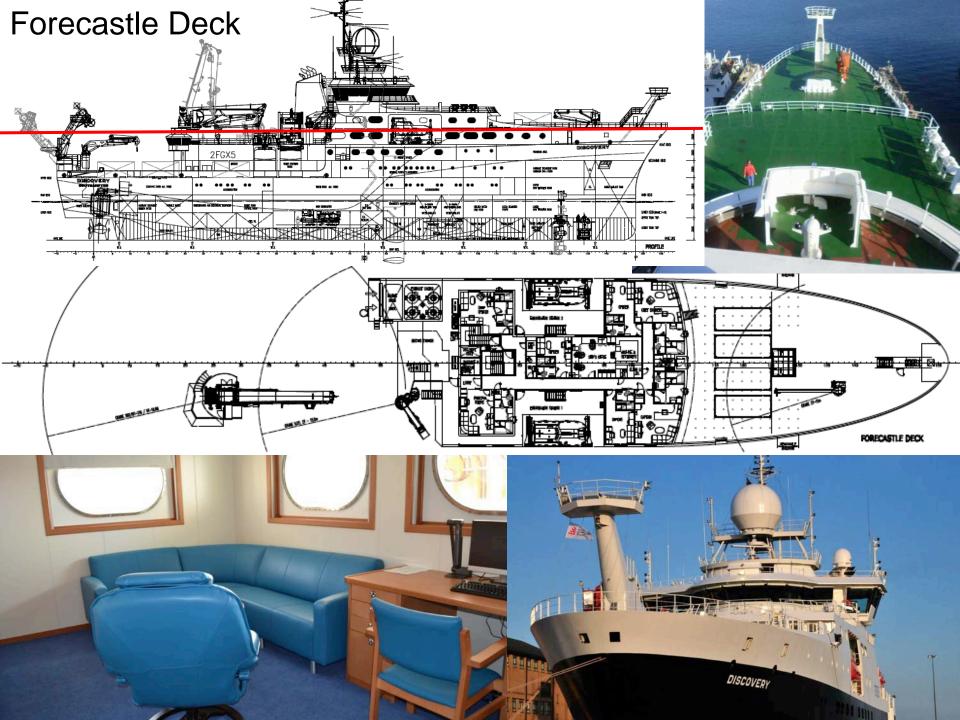


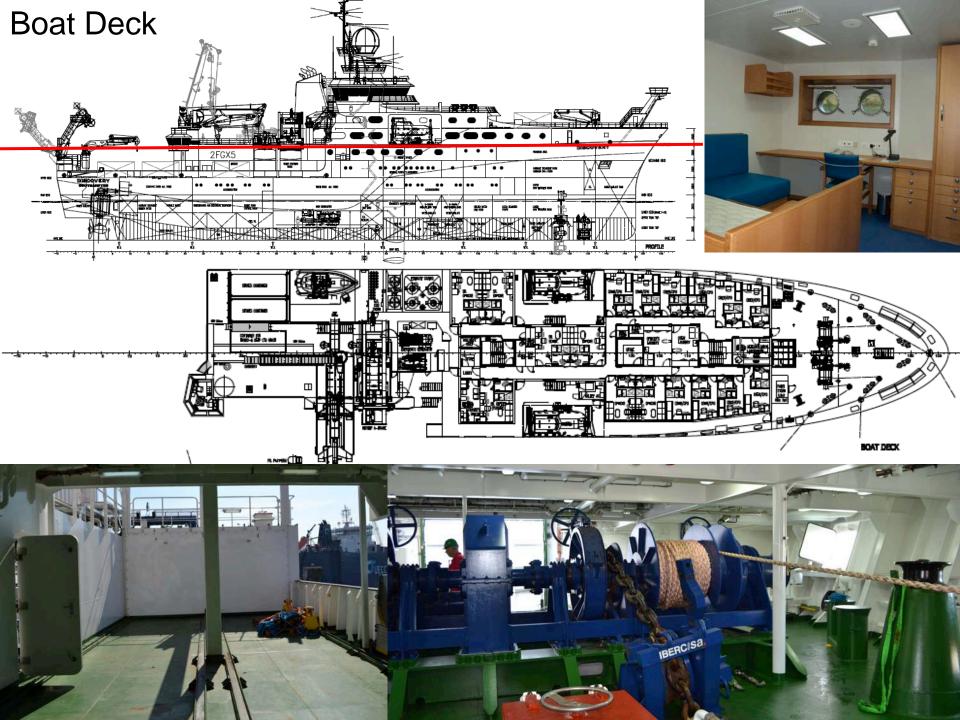


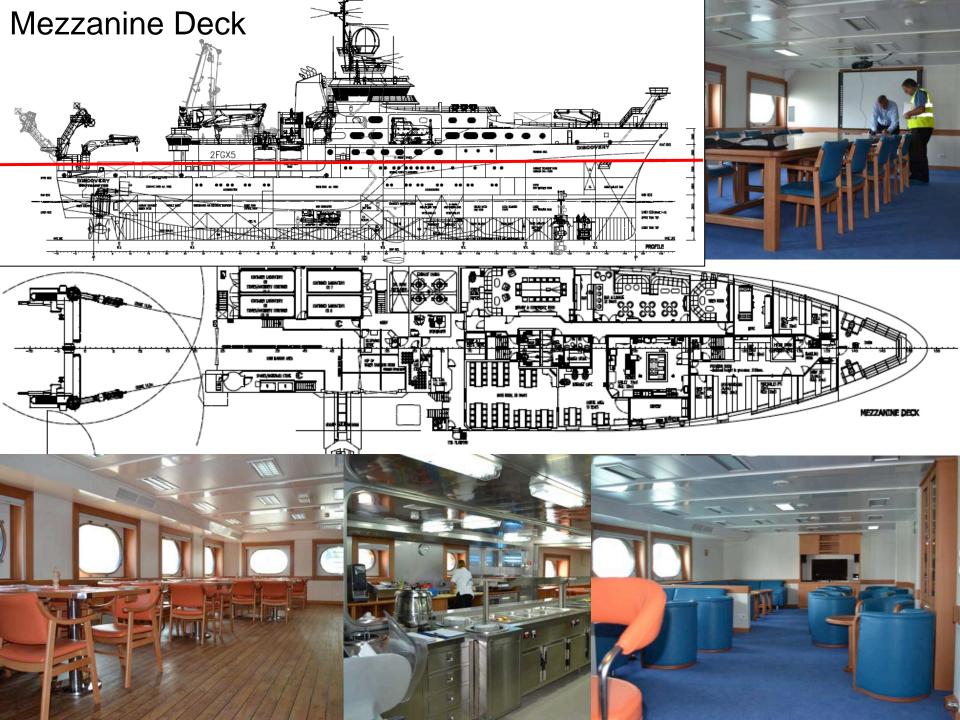


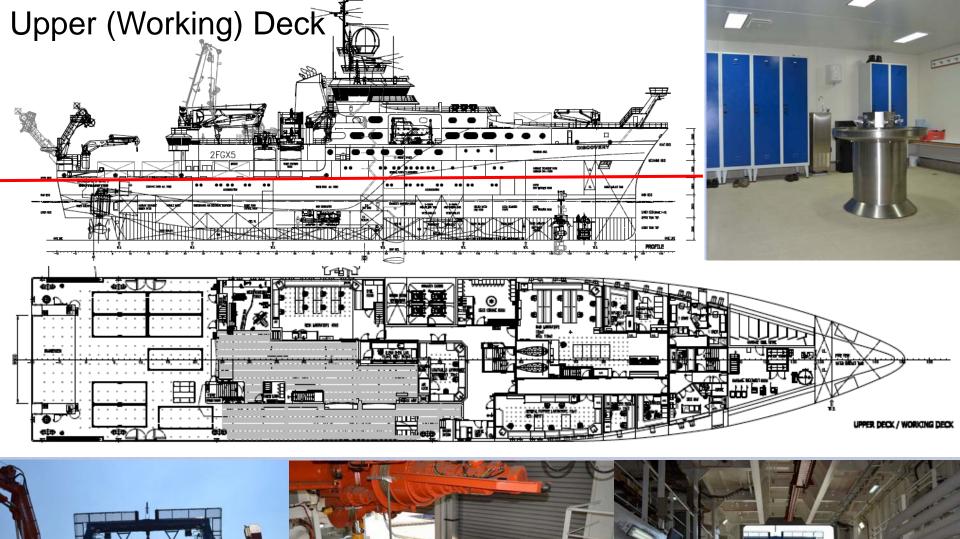




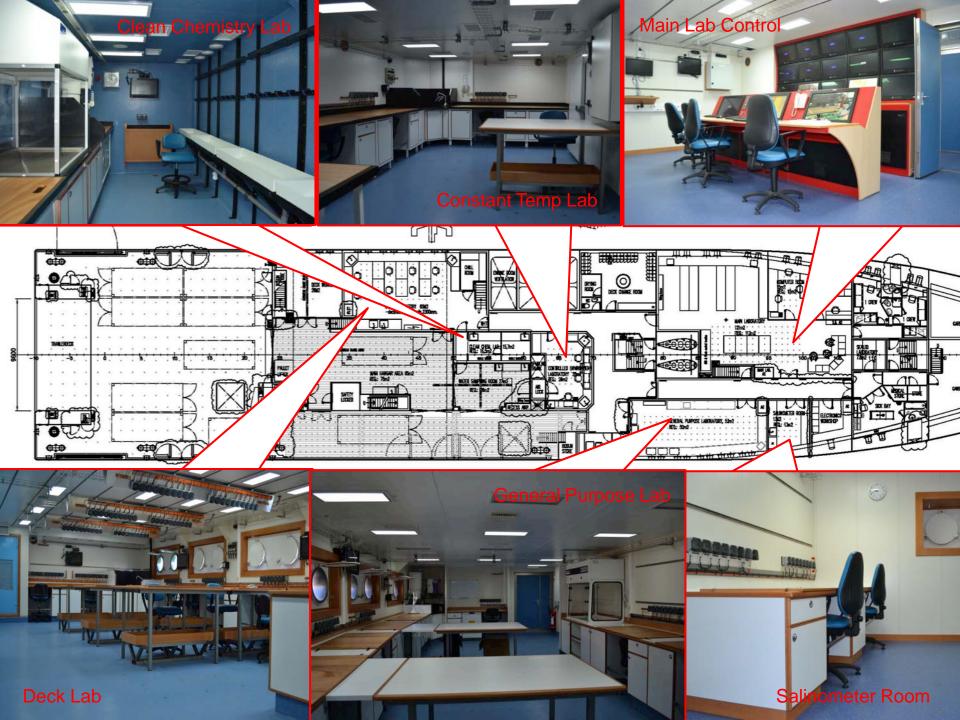


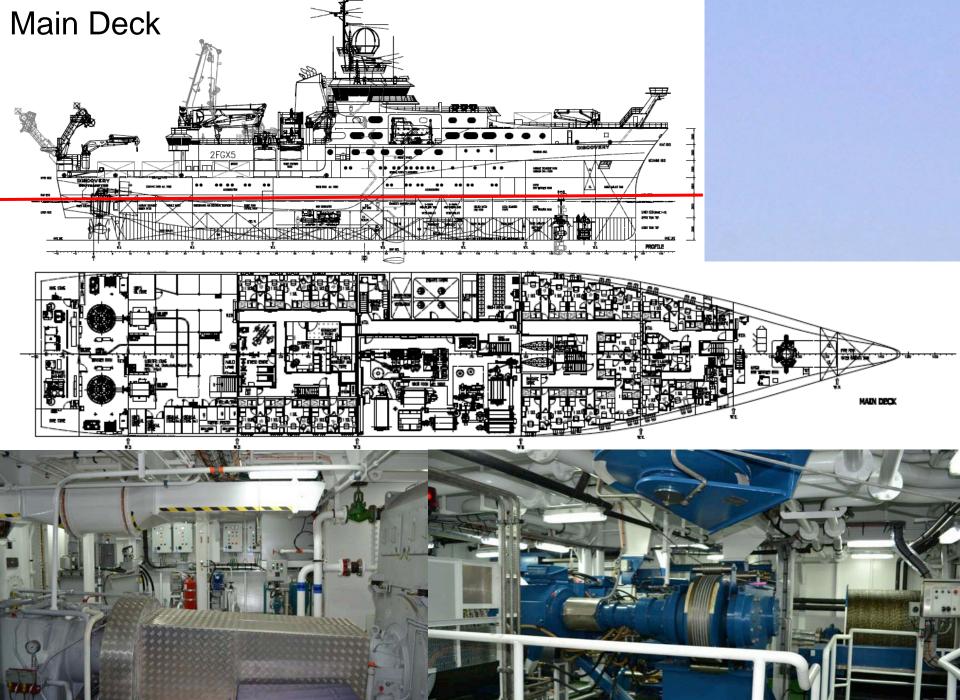


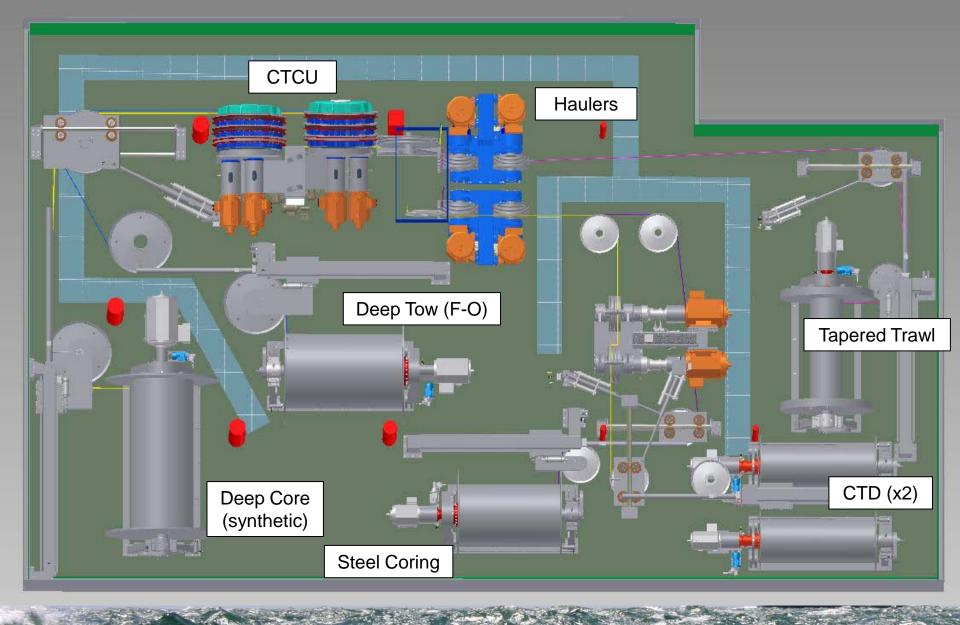




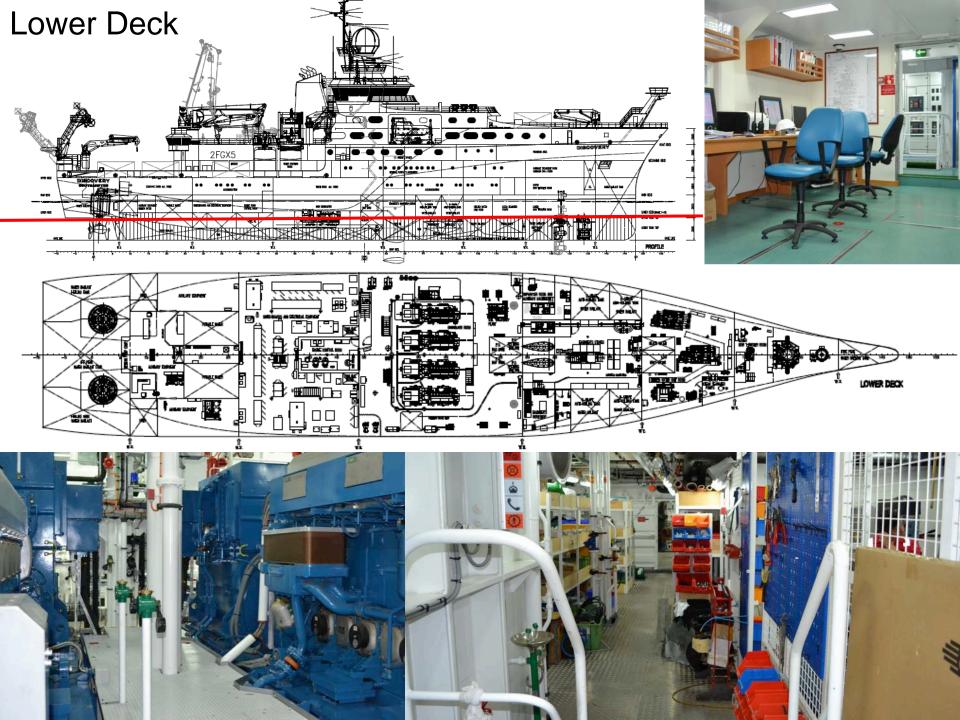


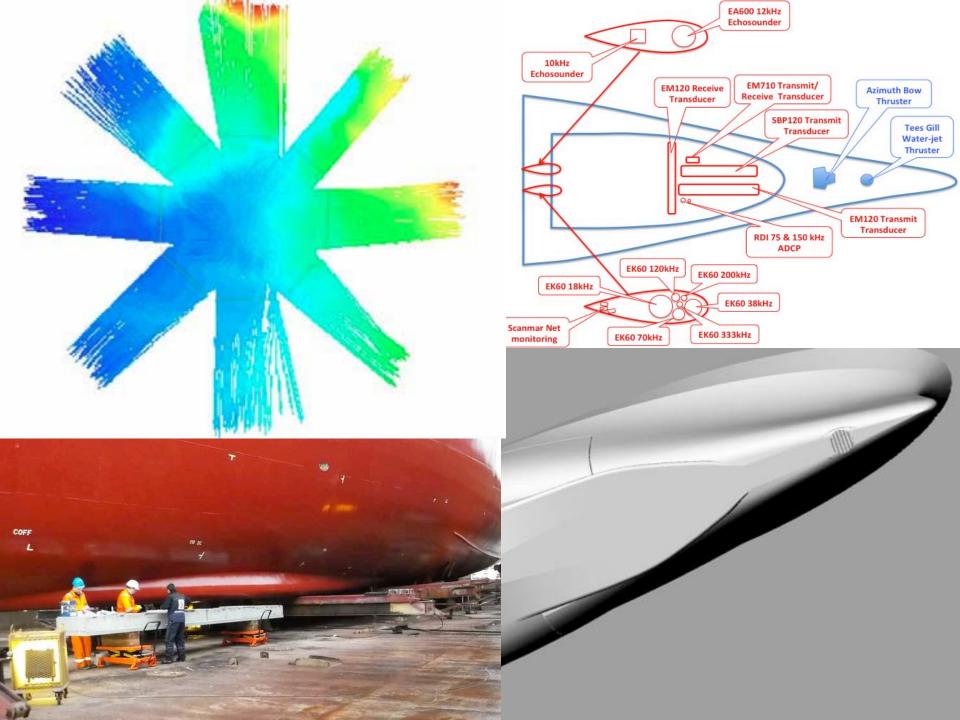












RRS Discovery Issues1 - Propulsion

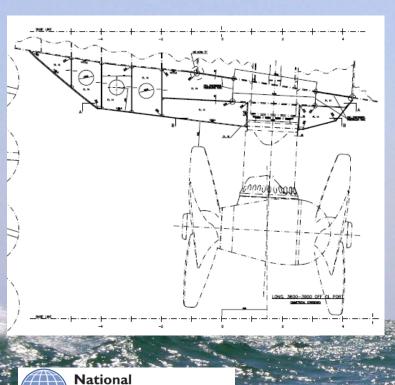
Modifications to main azimuth thruster headboxes in Vigo

Engine Modes:

 Speed mode - 50% order will give 50% rpm according to speed ref motor = unstable load

 Power mode - 50% order will be 50% power (KW) ref to motor power = stable load

Cook has both modes, Discovery only has Speed Mode.



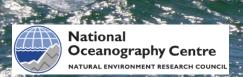
Oceanography Centre



RRS Discovery Issues 2 – Winches

- Cooling
- Spooling
- Gearbox/brakes





James Cook Programme 13/14

RRS James Cook

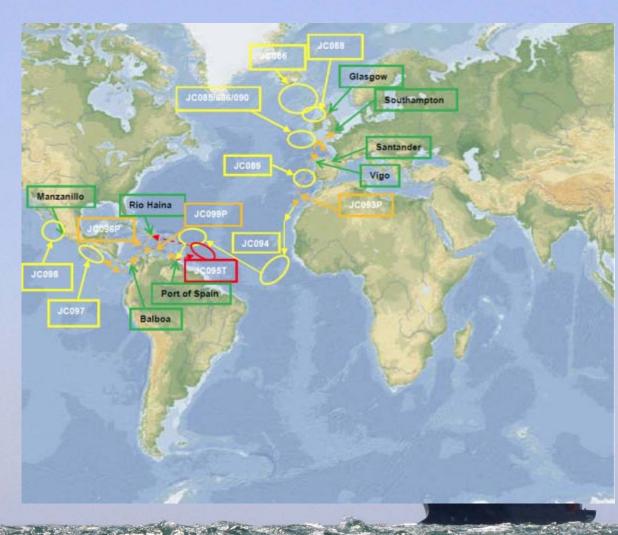
N Atlantic

Equatorial Atlantic

Caribbean

E Pacific





Unmanned Surface Vehicles

- Long Endurance Marine Unmanned Surface Vehicle (LEMUSV)
- NERC and the DSTL SBRI competition, in partnership with the Technology Strategy Board
- Target: 90 day endurance with 10kt over 100NM 'sprint'
- 6 x £50k concept studies awarded 2012
- Down-selected to ASV Ltd. and MOST Ltd. 2013
- Initial prototype trials Portsmouth Harbour Dec 2013
- 2nd trials Scotland Feb 2014
- Large experiment in Autumn comprising:
 - 2 x LEMUSV
 - 2 x Slocum gliders
 - Seabed array
 - UAV (TBC)







International Research Ship Operators (IRSO)

- 2013 St Johns
 - Hosted by Memorial University, Newfoundland
 - 2014 Nantes
 - Hosted by Ifremer
 - 9-12 September



- 2nd International Ocean Research Conference (IORC), "one planet one ocean"
 - One hour long film on work of the world's research vessels.
 - The film will be shown in Barcelona, Nov 2014.

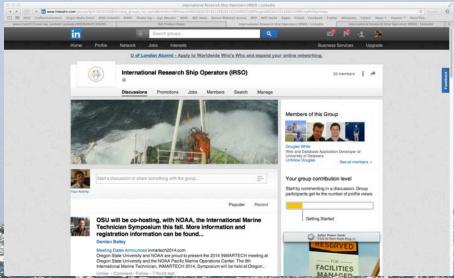


IRSO On-Line

http://irso.unols.org

Linkedin







RRS Discovery Build



