## **RRS Discovery Replacement Project**

Pictures supplied by E.B. Cooper, Natural Environment Research Council, Project Officer RRS Discovery Replacement, National Oceanography Centre, European Way, Southampton, SO14 3ZH































Bullhorn Boom, Parallelogram & Crane 18/9/2012







































#### BAR & LOUNGE (3D)



MESS ROOM (3D)







# James Cook & new Discovery Compared

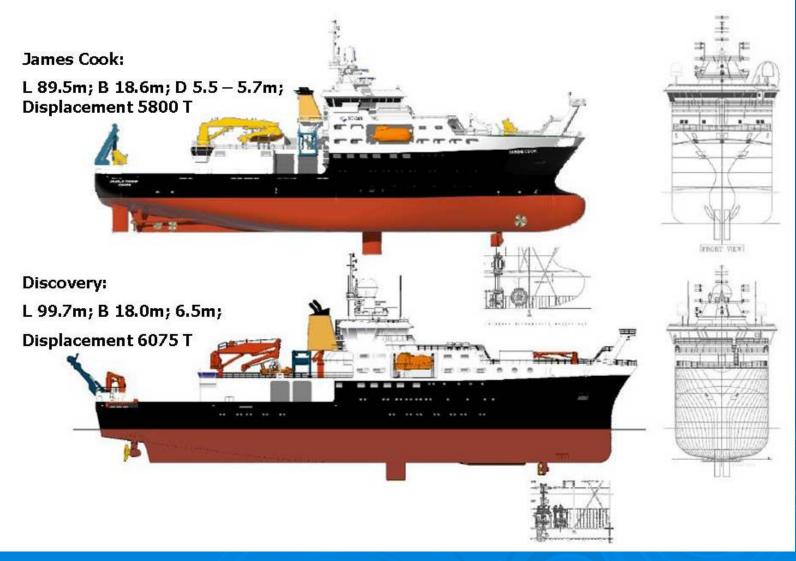




	Cook	Discovery
Length Overall:	89.50 m	99.70m
Breadth:	18.60 m	18.0m
Draft:	5.50-5.70 m	6.50m
Displacement:	5368t GRT	6075T GRT
Class:	Lloyds +100A1, lce 1C, FS, +LMC, UMS, DP(AM) Research Vessel	Lloyds +100A1, Ice 1D, +LMC, UMS, IWS, EP, DP(AM), NAV1, IBS, Research Vessel
Maximum Speed:	15 kts SS4	15kts SS2
Cruising Speed:	12 kts SS4	12kts SS4
Maximum Endurance:	50 days	50 days
Science & Stores DW:	385T	380T
Scientific Berths:	32 singles	28 singles
Officers:	9 singles	12 singles
Crew & Technicians:	13 singles	12 singles
Open Deck Spaces (Afterdeck & Stbd Amidships):	446 m²	432 m <sup>2</sup>
Total Lab Areas:	277.5 m <sup>2</sup>	388.8 m <sup>2</sup>

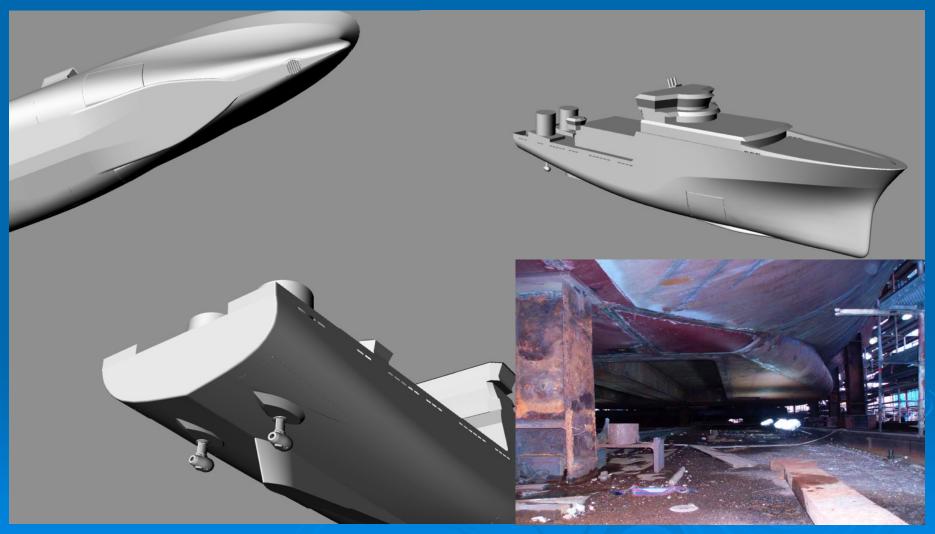


### RRS James Cook / Discovery Replacement Comparison

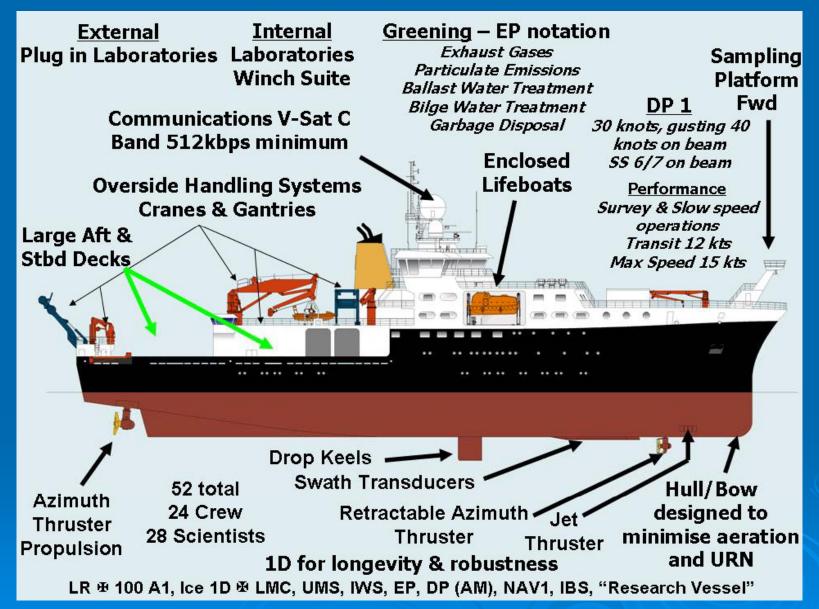




## James Cook & new Discovery Compared









## Expected Outcome

- 50 days endurance (L 99.7m, B 18m, D 6.5m)
- Scientific Transit Speed 12 knots maximum
- 24 Officers & Crew (includes 1 Training Berth)
- 28 Scientists & Technicians
- DP Capable (DP1) SS6/7
- Multidisciplinary
- Seismic capability
- Multibeam(s) & Sub Bottom profiler
- Minimal Ice Class for hull life (Lloyds 1D)
- Overside/overstern lifting 20 tonnes (JC 30 tonnes)
- Drop Keels
- Low URN but not ICES209
- Propulsion 2 x Azimuthing Units Aft
  Azimuthing Thruster Fwd, Manoeuvring Thruster Fwd
- Oceanographic Winch Suite including Metal Free CTD Winch



