R/V Rachel Carson

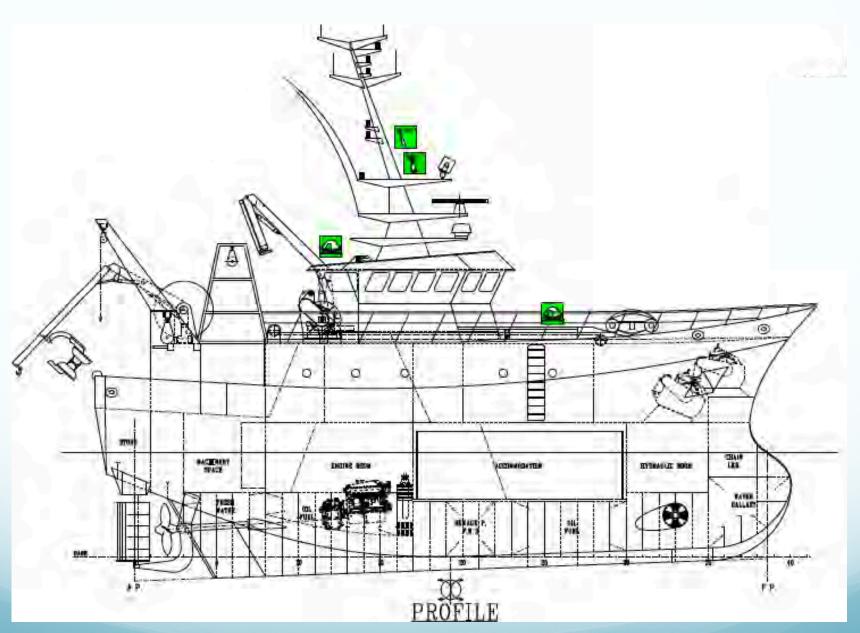


Update

- Purchase price: \$1,109,366M
- UW took ownership on 16 August 2017
- Vessel now in Scottish shipyard original builder for maintenance and modification
- Ship to US via cargo transport starting 25-30
 October 2017. Arrive Victoria, BC 30-60 days later.

Original Vessel Particulars

- 22m long
- 7.8m beam
- Twin screw diesel direct drive, bow thruster
- 14-day endurance
- Speed: up to 10.2 kts
- Sleeps: 9
- Wet & Dry Labs plus "Dry Locker"
- 7 hydraulic winches
- Articulating Crane w/good capacity
- Fixed A-frame
- 4 operating stations on the well equipped Bridge



R/V AORA at Delivery



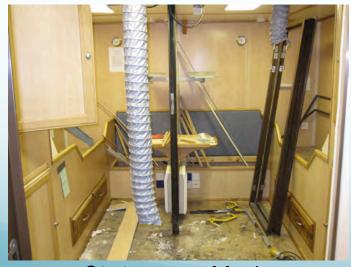
Shipyard Work

- Engine maintenance
- Harbor Generator engine replacement
- Electrical system repairs
- Battery bank replacements
- Stern Bulwark removal
- A-frame cross beam removal.
- Move crane / winch controls
- Hydraulic system maintenance (inc. fitting renewals)
- Stateroom modifications (incr. berthing from 9 to 14)
- Drydock Inspection shafts, rudders, through hull fittings
- Painting touch up & top coat plus full blast/paint for aft end of ship

Shipyard Work



Stern Bulwark Removed



Stateroom Mods



A-frame cross frame removed



More Shipyard Work



Relocated crane controls



Diesel engine major maintenance



Harbor Generator Engine Replacement & Generator Testing



Costs

- Purchase Price: \$1.109M
- Transport Cost: \$325K (transported via cargo ship)
- Cost to Put Into Service: \$300K-\$550K
 - Shipyard: \$140K
 - Other expected costs
 - Science Prep \$125K
 - Initial Power Mods \$75K
 - CTD Winch ?
 - Add'l outfitting? (e.g. fire extinguishers, SCBAs) ?

Notional Schedule

- 5 Oct Depart Scotland
- 25-30 Oct Transport departs for US
- 1-30 Dec Transport arrives Victoria, BC, transit to UW
- Jan-Feb 2018 prep for science, develop processes /procedures
- Mar 2018 NSF Inspection, join UNOLS fleet
- Apr 2018 enter service, retire R/V Barnes

Key Issues to Address

- Winch to support CTD work
- Electrical modifications:
 - Shore power
 - Scientific loads
 - Develop short & long term plans for electrical system
- Develop operational & science support procedures
- Develop crewing plan dependent on science work
- Develop 5-year upgrade plan / MOSA
- Advertise get scientists to submit proposals!!