

R/V Hugh R. Sharp Mid-Life Update



5 years of
UNOLS R/VOC Meeting 2025
3 years of **Dreaming**
Director, Marine Operations
2 years of **Beginning**
executing Phase
One

Mid-Life Plan Development and Funding

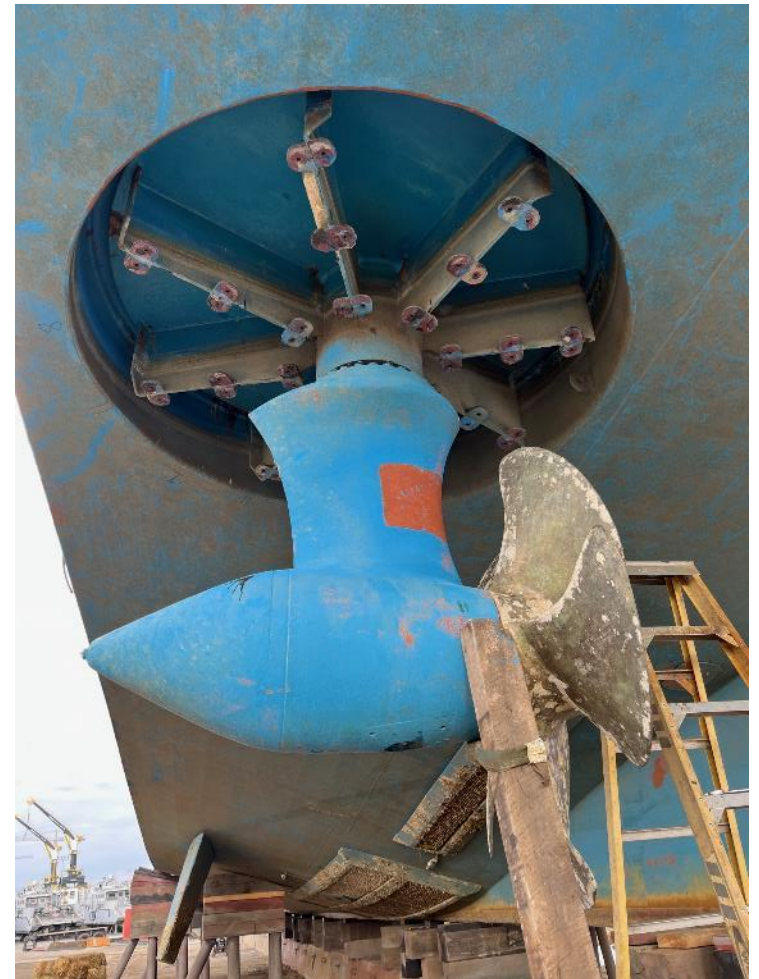
- Glosten Mid-Life Scoping Study
 - Study Funded by ONR (2022)
 - Added ABS and other needs / wishes =
 - \$3m - \$6m estimate prioritized as either Critical, Needed, or Ideal to have.
- NSF, ONR, and MOSA \$\$ accumulation
 - ~ \$1m MOSA (2021-2024)
 - New Deck Crane (2022 SSSE)
 - New Radars (2021 SSSE)
 - New Propellers (2019 ONR)
 - USBL, Multibeam (ONR 2020, 2023)
- Univ of DE Funding
 - \$1m (November 2024)



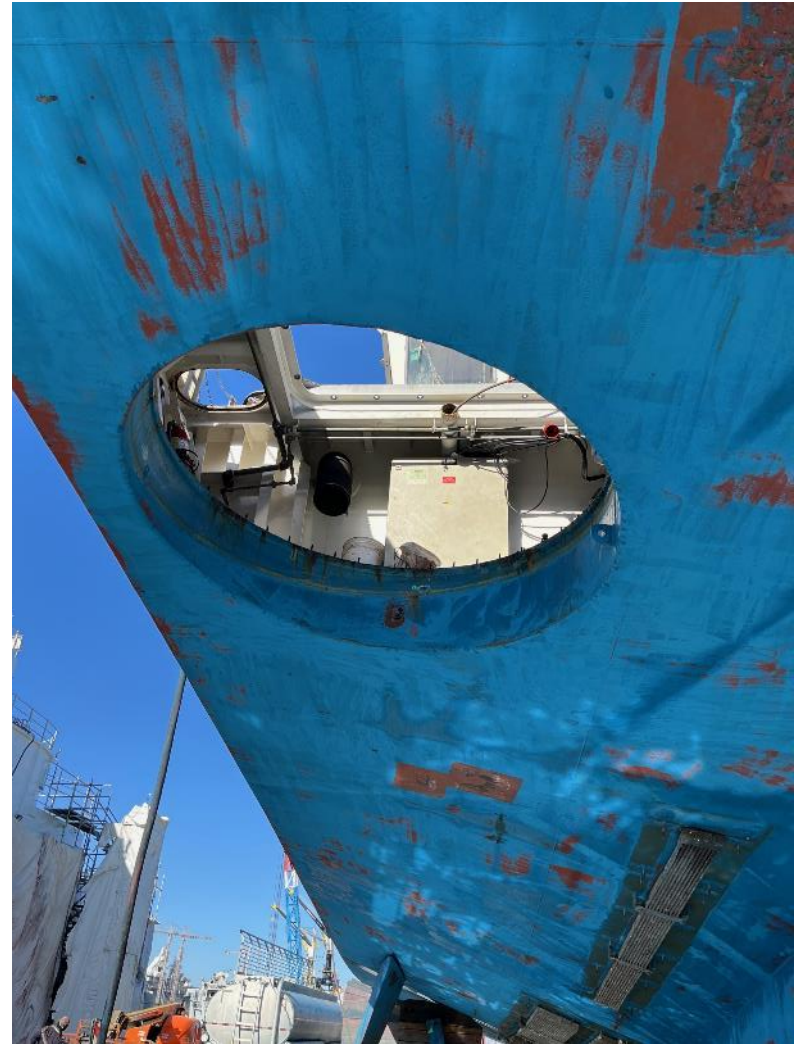
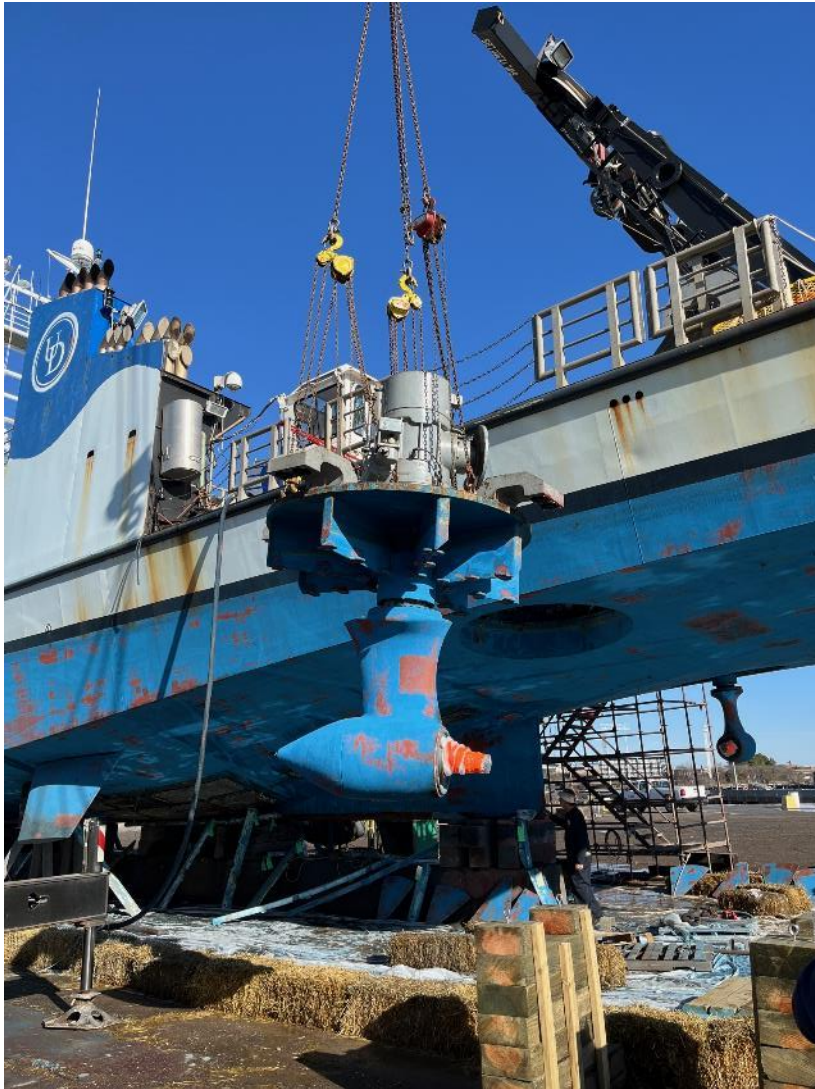
Phase One Plan (2024-2025)

- \$2m Max Available
- Time Shipyard with major 5-year ABS Cycle
- Prioritize:
 - Power (Cummins engines overhauls)
 - Propulsion
 - Overhaul Z-Drive DC Motors (2024)
 - Mechanical Overhauls of Z-drives and Bow Thruster
 - Initiate Schottel Electronic Control System upgrades
 - Hull
 - Extensive UT inspection
 - Preserve and Recoat bilges
 - Replace degraded sections of all deck Vents and Fills
 - Remove Bow Deployment Doors
 - Keel Coolers
 - Blast and recoat O-1 deck
 - Pumps and Motors
 - Mid-life overhauls of fire, chiller, sanitary, etc.
 - New UD Torside Coating Scheme

Z-Drive Overhauls



Z-Drive Overhauls



Z-Drive Overhauls



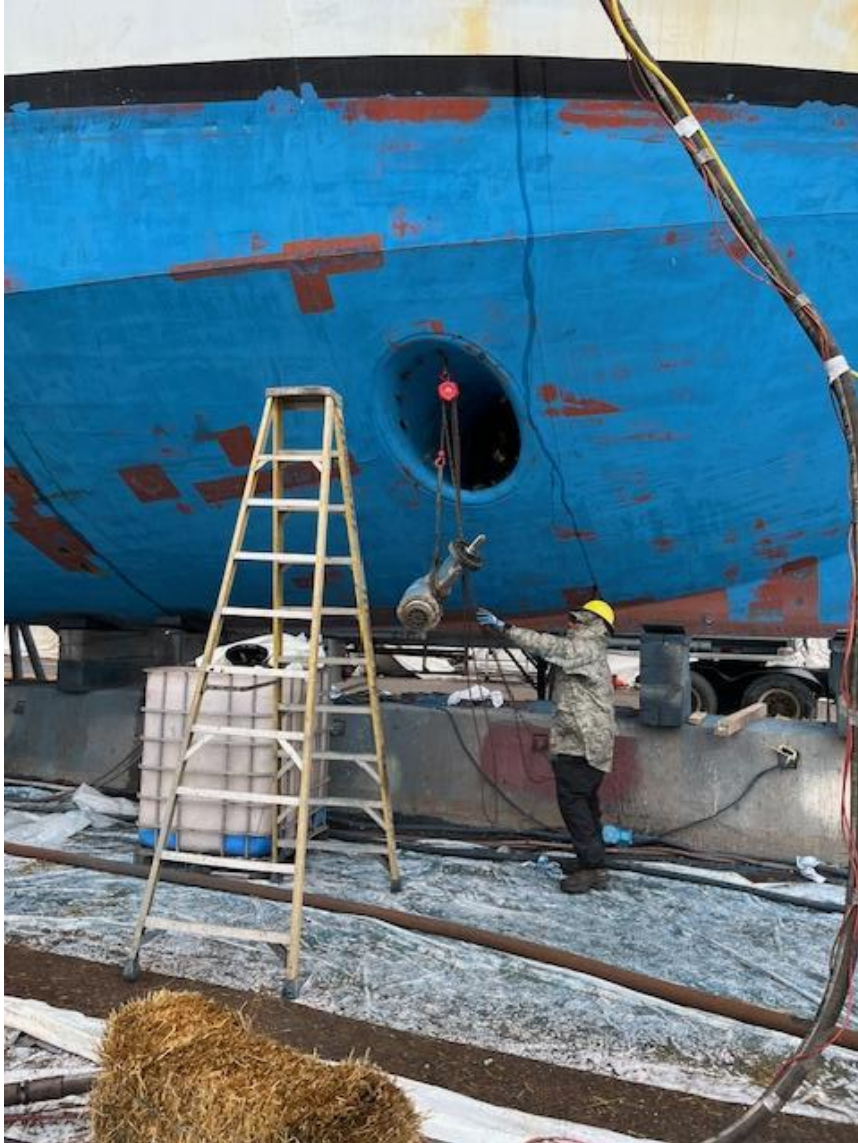
Z-Drive Overhauls



Z-Drive Overhauls



Bow Thruster Overhaul



Bilges Preservation and Coating



Bilges Preservation



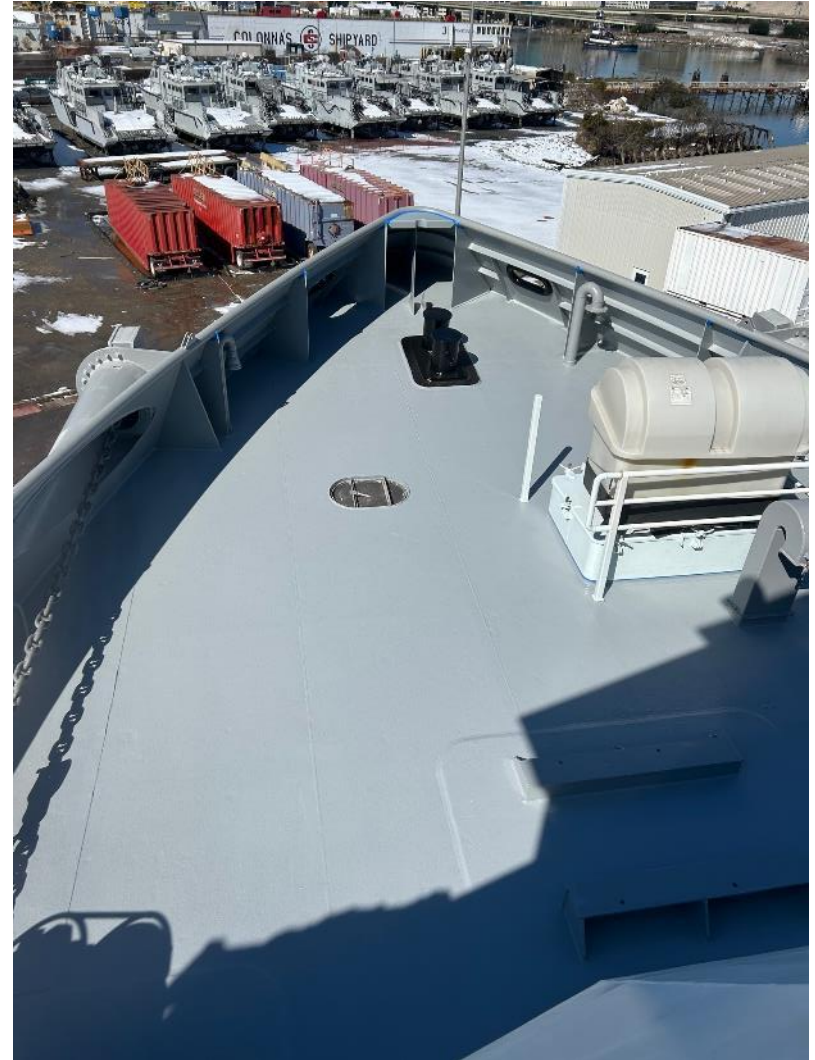
Stern Void Blast and Recoat



Deck Vents and Fills, Keel Coolers



Blast and Recoat O-1Deck



Blast and Recoat O-1Deck



TopSide Hull – Bow Deployment Doors Removed



Delaware / Crew Work



TopSide Hull – New UD Paint Scheme















Phase Two Plan

- \$\$\$ TBfound
- Priorities:
 - Complete long lead time Schottel Electronic Control upgrades.
 - Engineering Alarm and Monitoring System upgrade.
 - Overhaul Schottel Z-Drive Steering Pumps.
 - DP System Upgrade.
 - Science equipment Upgrades:
 - Double trolley block for A-frame
 - Caley CTD system upgrades
 - Increase ROV capability
 - etc.
 - Augment Bridge cooling system
 - PA System Replacement
 - etc.

Come on Over for a
Tour!!!

