

New UW Research Vessel



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What's the problem?

- * Multi-faceted
 - * R/V Barnes 50 yrs old – nearing retirement
 - * R/V Barnes limited in ability to support today's complex integrated research
 - * Limited access to on-water experience for students of marine sciences in the region
 - * No regional fisheries research vessels
 - * Limited coastal research – lack of affordable research assets
 - * Limited training opportunities for future mariners (Navy, deck, eng) on vessels

What's the solution?

- * Construct a new Local-class research vessel that:
 - * Supports gov't agencies, academic institutions & NGOs in conducting oceanographic & fisheries research while also providing monitoring and oil spill response capabilities
 - * Can support the science needs of today and those anticipated for the next 20-30 years
 - * Provides hands on experience for students
 - * Provides training opportunities for future mariners
 - * Is capable of operating throughout the region throughout the calendar year
 - * Is affordable and flexible

R/V Barnes



- Built 1966
- Former USCG icebreaking harbor tug
- Transferred to UW 1982
- Converted to R/V 1983
- Over 1,000 research cruises



New Vessel Design Requirements

- * Capability to operate further afield including offshore in summer
- * Increased cruising speed (~12 knots)
- * Improved maneuverability and station keeping
- * Increased berthing (10 scientists, up to 5 crew) and day use capacity (~30 students)
- * Option for 24 hour operations (flexible day rate)
- * 12-hour operations at same crewing level and comparable day rate to Barnes
- * Increased deck space
- * Increased lab space (flexible wet and dry lab spaces)
- * Expanded/Increased scientific capability
- * Improved efficiency – Fuel economy and emissions

New Vessel Contract Design



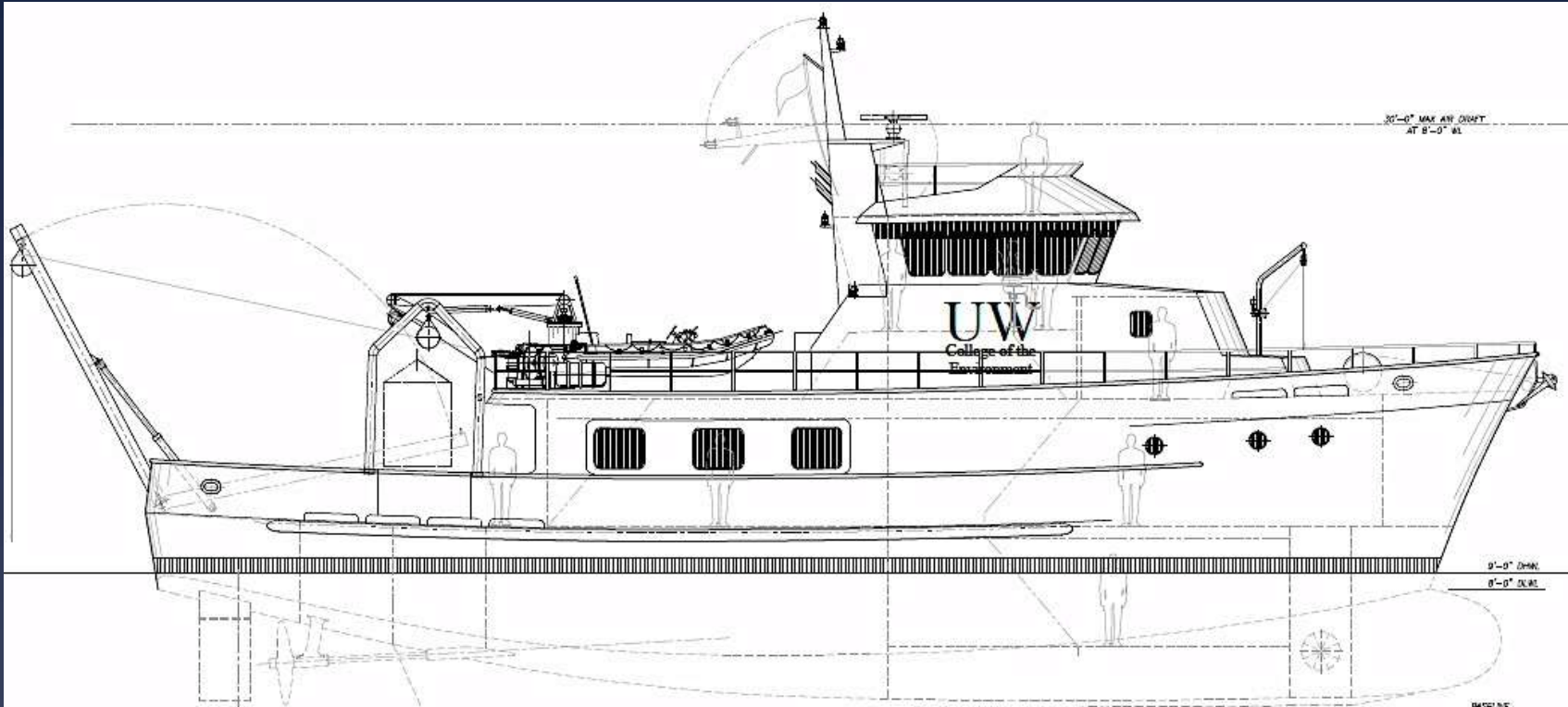


Oceanography Configuration



Fisheries Research Configuration

Outboard Profile



PRINCIPAL CHARACTERISTICS

Length (Overall) 90' 0"
 Length (9' WL) 82' 9 1/2"
 Beam 27' 3"
 Depth 10' 8"
 Draft (Full Load) 9' 0"
 Gross Tonnage (US).... <200 GRT

Speed 12+ knots

Propulsion..... Diesel Electric, Twin Screw
 Propulsion Motors 2 x 375 kW
 Bow Thruster..... 110 kW
 Generators 1 x 500 kW
 2 x 250 kW
 1 x 27 kW

Capacities

Fuel 12,710 gals
 Fresh water 2,256 gals
 Berthing 15

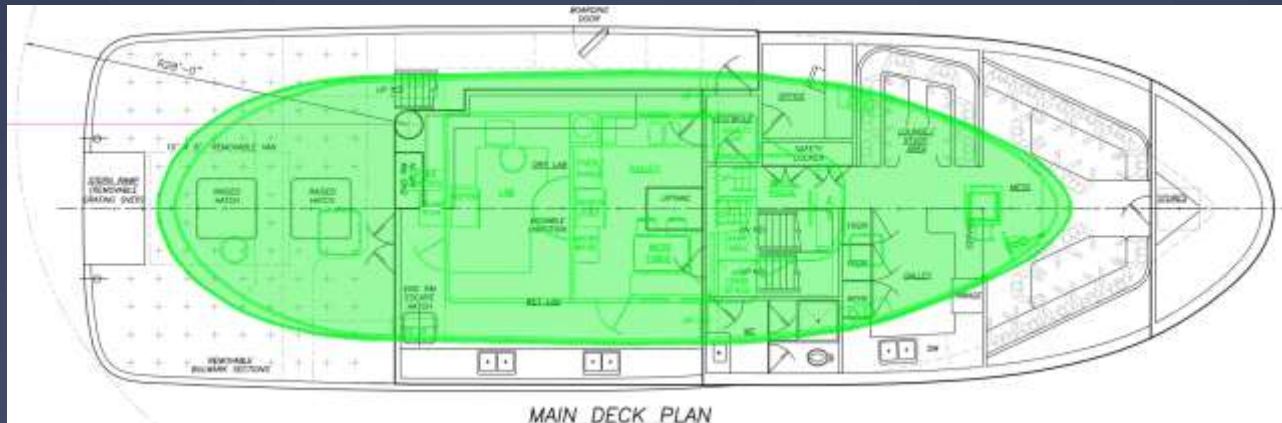
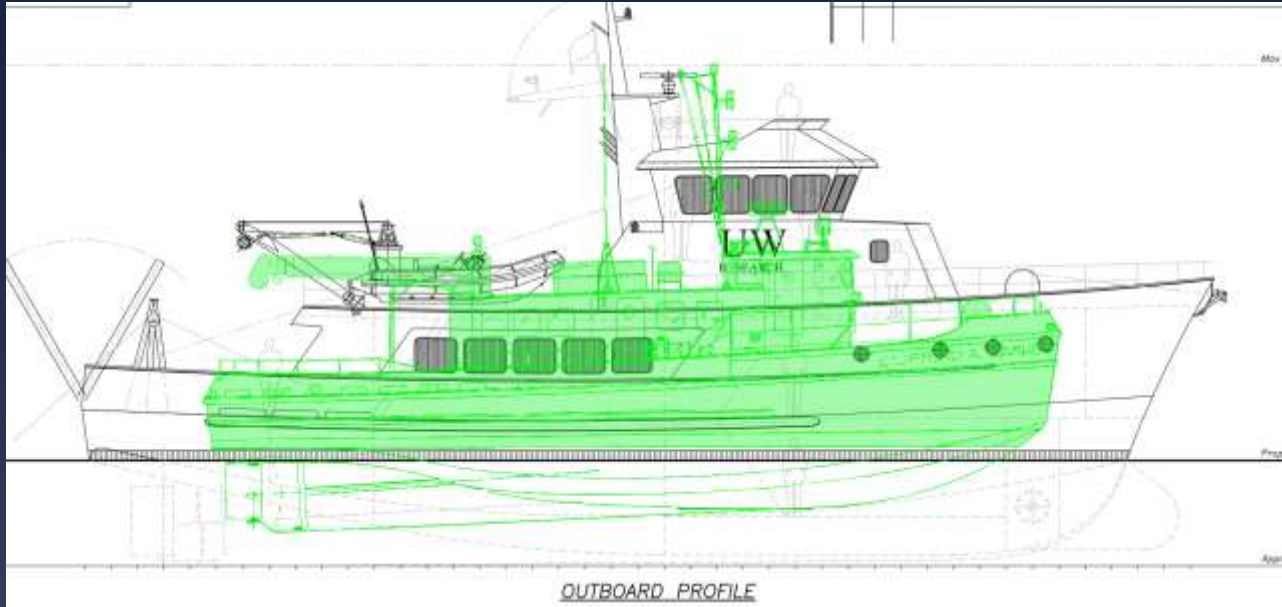
A View into the Lab Space



Pilothouse



Comparison



Summary

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