



Regional Class Research Vessel (RCRV)



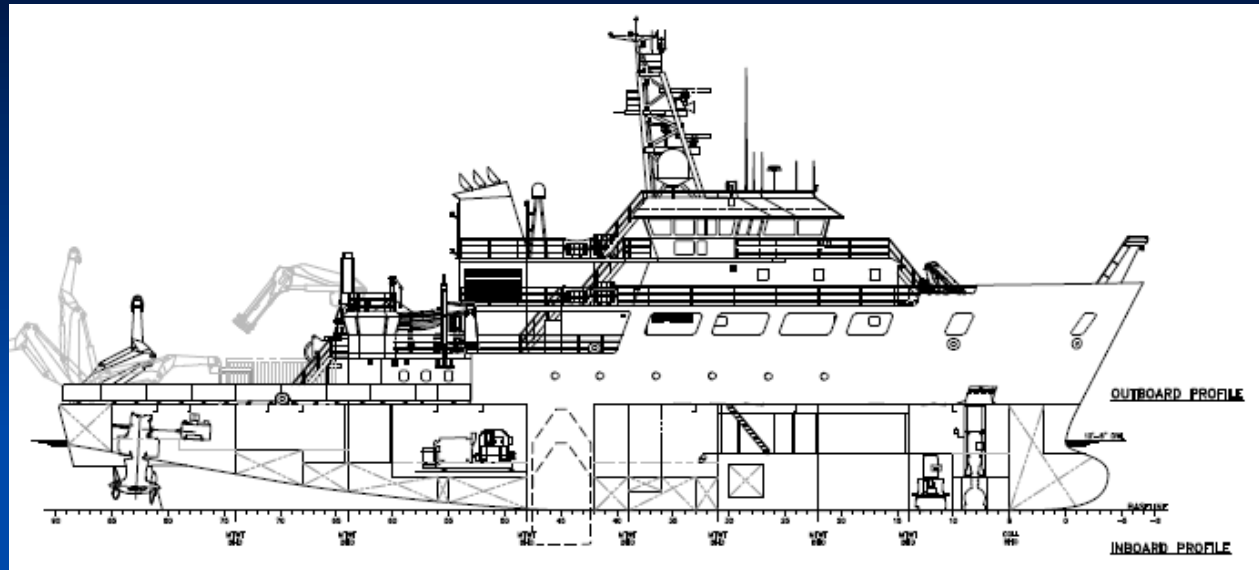
RVTEC Meeting

October, 2017

Jim Holik



Regional Class Research Vessel (RCRV)



- Construction Stage – started in July 2017
 - US Congress includes \$121.88 M in FY 2017 NSF budget for RCRV
 - OSU Contract with Gulf Island Shipyards for one ship, and options for two more
 - Design Verification and Transfer, 10 months
 - Keel Laying for RCRV-1, June 2018
 - Deliveries in 2020, 2021 and 2023
 - One year of sea trials and science verification before operations commence



Regional Class Research Vessel (RCRV)



■ Operations –

- Oregon State University to operate RCRV-1
- Additional operators, if needed, determined by competition
- Operators involved from DVT through transition to operations
 - Will assist in region-specific requirements
 - Improve vessel familiarity



Comparison of Ocean Class to RCRV

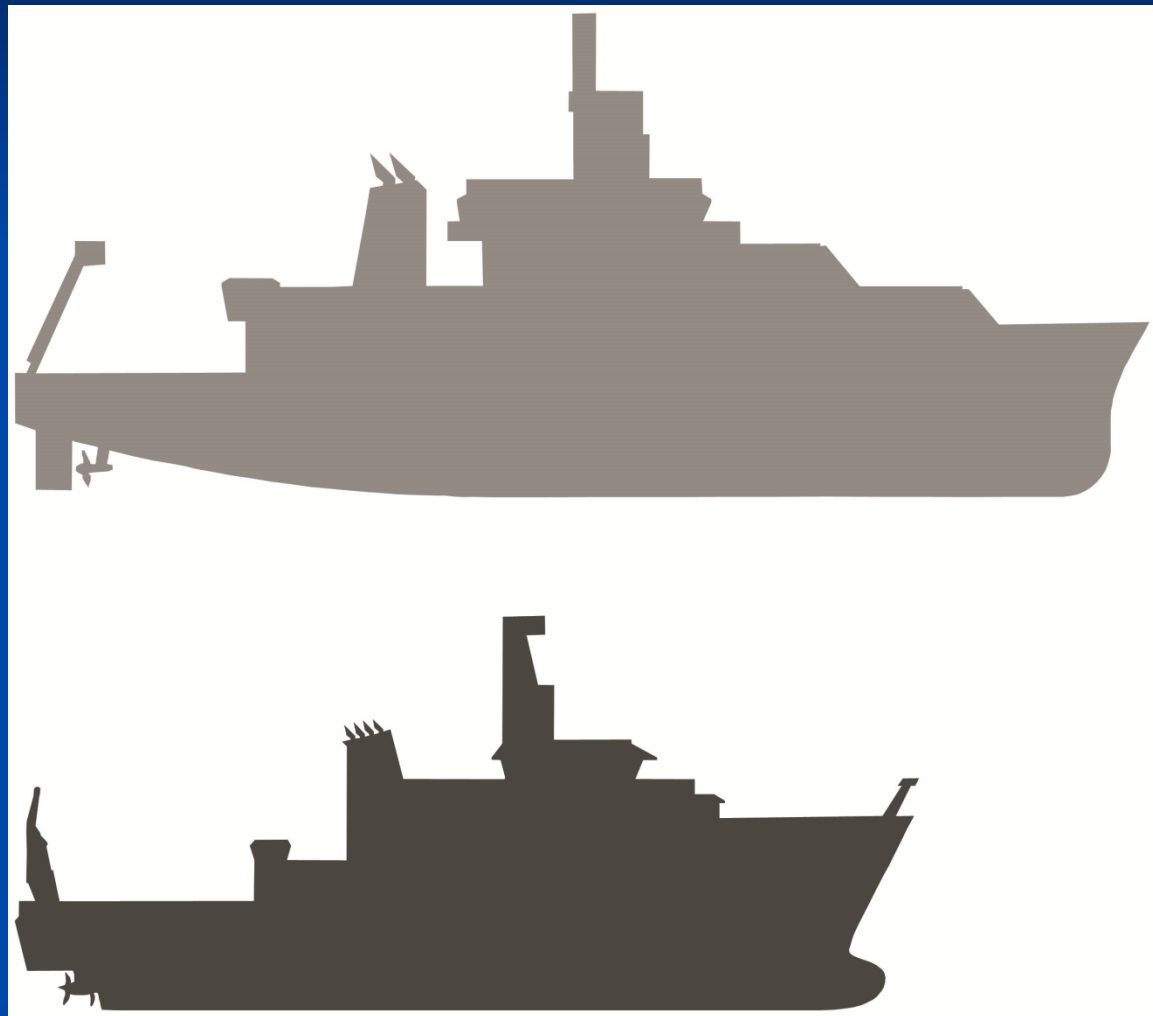


■ Ocean Class (OCRV)

- R/V *Sally Ride*
- R/V *Neil Armstrong*
- 238 ft.
- ~3000 tons displacement

■ RCRV

- 193 ft.
- ~1500 tons displacement



Principal Characteristics

Length Overall	193' – 0"
Length on Design Waterline	178' – 0"
Beam	41' – 0"
Depth, Baseline to Main Deck	19' – 0"
Design Draft	12' – 6"
Total Installed Power, Continuous.....	2,685 bkW
Propulsion	(2) dual propeller Z-Drives
Bow Thrusters.....	350 kW flush mounted, 280 kW retractable azimuthing thruster
Sustained Speed, Calm Water.....	12 knots
Estimated Maximum Speed, Calm Water.....	12.5 knots
Range, Sustained Speed	5,400 nm
Endurance	25 days
Displacement at Design Draft	1,492 LT
Lightship Weight (estimated)	1,183 LT
Science Payload & Portable Outfit Items	66 LT
Ice Classification.....	ABS C0
Main Lab.....	510 ft ²
Wet Lab.....	385 ft ²
Computer Lab	175 ft ²
Datapresence Center	215 ft ²
Main Deck (aft of the house)	1,930 ft ²
Main Deck (including side deck).....	2,160 ft ²
Side Deck Length.....	70 ft
01 Deck (working area)	600 ft ²
Accessible Science Berth	1 Double Stateroom
Marine Technician Berth	1 Double Stateroom
Total Science Berths (with Accessible & Marine Technician Berths)	8 Double Staterooms
Crew Berths	7 Single Berths, 3 Double Berths
Total Complement	16 Scientists/Marine Technicians, 12 Crew

Tank Capacities

Diesel Fuel at 95%	52,820 gallons
Ballast Water at 100%	71,550 gallons
Potable Water at 100%.....	6,800 gallons
Graywater Holding at 100%	6,200 gallons
Blackwater at 100%	700 gallons
Diesel Exhaust Fluid at 100%.....	3,550 gallons