



Regional Class Research Vessel (RCRV)



**Candidate MREFC Project
November 2014**

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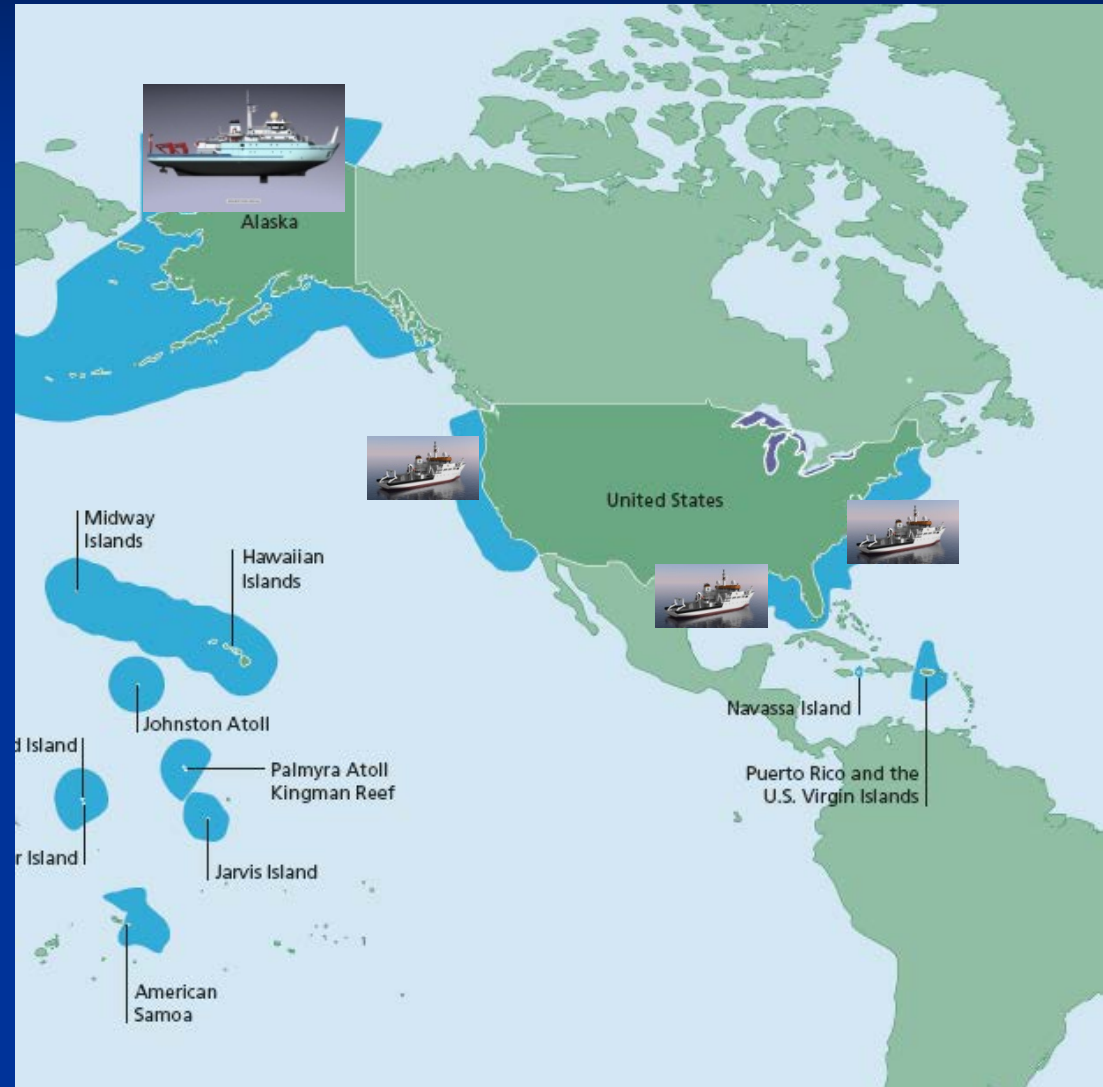
Project Overview



**Oregon State University
selected as Lead
Institution, January
2013.**

Cooperative Agreement
provides funding for vessel
design completion and
shipyard selection

**Up to 3 ships:
Actual number of ships
based on science need and
available funding
(construction and
operations)**





Status of Review Process



- **Independent Cost Estimate (ICE); July, 2014:**
 - Parametric assessment of construction cost
 - Scenarios vary number of hulls (1-3) and construction timing
- **Preliminary Design Review ; August, 2014:**
 - Recommend project proceed through Design Refresh
 - Construction schedule, weight and stability main concerns
- **Number of Vessels; up to 3 for East, West, and Gulf Coasts**
 - UNOLS Council recommends 3 hulls
 - OCE Programs consider O&M implications of fleet modernization
 - Decadal Survey of Ocean Sciences, early 2015
 - Summarize advancements, identify priorities, analyze infrastructure
 - Recommend an Infrastructure portfolio to advance priorities



Remaining Project Phases



- **Complete Design and Schedule, December, 2015:**
 - Acquisition Strategy review
 - Request funding for FY2017 or later
- **Shipyard Selection, October, 2016:**
 - Firm fixed price bids to be solicited for build-ready design
 - Final Design Review
 - Best value selection
- **Construction:**
 - MREFC funding on new Cooperative Agreement
 - Contingency Management, Configuration Control process
- **Transition to Operations:**
 - Builder's Trials, delivery, crew training
 - Acceptance Trials , Science Verification trials



END

Updated: September 4, 2014

SHIP/CLASS	BUILT	Owner	LOA m (ft)	Science Berths	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	End Year	
Global Class																											
Melville	1969	NAVY	85 (279)	38	--	--	--	--	-X																		
Knorr	1970	NAVY	85 (279)	34	--	--	--	--	-X																		
Thomas G. Thompson	1991	NAVY	84 (274)	36	--	--	--	--		M?	--	--	--	--	--	-X											
Roger Revelle	1996	NAVY	84 (274)	37	--	--	--	--																			
Atlantis	1997	NAVY	84 (274)	37	--	--	--	--																			
Marcus G. Langseth	1991	NSF	71 (235)	35	--	--	--	--																		-X	
Sikuliag	2014	NSF	80 (261)	26						y																->	
Ocean/Intermediate Class																											
Kilo Moana	2002	NAVY	57 (186)	29	--	--	--	--																		->	
Wecoma	1976	NSF	56 (185)	18	--	-X																					
Endeavor	1976	NSF	56 (184)	18	--										-X												
Oceanus	1976	NSF	56 (184)	19	--										-X												
Atlantic Explorer	1982	BIOS	51 (168)	20	--																						
New Horizon	1978	SIO	52 (170)	19	--								-X														
Neil Armstrong	2015	NAVY	73 (238)	24						y																->	
Sally Ride	2015	NAVY	73 (238)	24						y																->	
Regional Class																											
Point Sur	1981	NSF	41 (135)	12	--				-X																		
Cape Hatteras	1981	NSF	41 (135)	14	--			X																			
Hugh R. Sharp	2005	UD	44 (146)	14	--											-M										->	
RGRV1	2021	NSF	58 (191)	18												y										->	
RGRV2	2022	NSF	58 (191)	18													y									->	
RGRV3	2023	NSF	58 (191)	18														y								->	
Coastal/Local Class																											
Robert Gordon Sproul	1981	SIO	38 (125)	12	--								-X														
Pelican	1985	LUMCON	32 (105)	14	--										-X												
Walton Smith	2000	Miami	30 (96)	16	--						-M															-X	
Savannah	2001	SKID/UG	28 (92)	19	--							-M														->	
Blue Heron	1985	UMINN	26 (86)	6	--																						
Clifford Barnes	1966	NSF	20 (66)	6	--						-X																

Total Number of Vessels in Fleet 21 21 20 20 19 17 19 18 18 16 16 14 14 15 15 15 14 12 11 11 11

X= Current projected Service Life End

M= Mid-life Refit