



### NSB Information Item February, 2015 Brian Midson, RCRV Program Officer



## **Project Overview**



Up to 3 ships needed to conduct science in the Coastal US

Academic Research Fleet will have fewer, more capable ships operating at current funding level

Oregon State University selected as Lead Institution, January 2013







### Independent Cost Estimate (ICE): July 2014

- Preliminary Design Review: August 2014
  - Recommended project proceed to Final Design Phase
  - Ship design, construction schedule, and cost addressed post-PDR

### Number of Vessels: up to 3 for Coastal U.S.

- OCE considered O&M implications of fleet modernization
- UNOLS, University National Oceanographic Laboratory System
  - Recommended 3 ships for high priority U.S. regions
  - May require retirement of other vessels
- Decadal Survey of Ocean Sciences
  - Recommended that no more than 2 ships be constructed
  - Based on long-term O&M costs and balance of science and ALL OCE infrastructure



# **Cost Proposal Review**



#### Program, including Naval Architect consultant:

- Assess construction costs
- Reconcile ICE with Project plan, cost and schedule
  - ICE –parametric, \$420M; delivery January 2024
  - OSU –bottom-up, \$376M; delivery September 2023

### Budget Finance and Award (DACS, DIAS, and LFO):

- Program Management cost assessment
  - Labor, equipment, travel, other direct, etc. -DACS
  - Indirect, fringe benefits, etc. -DIAS
- Risk assessment and management
- Follows MREFC process

Basis to develop request for Board approval



# **Remaining Project Stages**



#### Design Stage: end March 2017

- Preliminary Design Phase: end May 2015
- Final Design Phase
  - Acquisition Strategy Review, June 2015
  - Final Design Review, February 2017
  - Shipyard Selection, March 2017

### Construction Stage: April 2017 target

- MREFC funding for new award
- Contract options for Hulls 2 or 3 in subsequent years (off ramps are included in the plan)
- Transition to Operations







# Inclusion of RCRV Project in a future budget request

# Action Item for May, 2015





### **Academic Research Fleet Plan**

Updated: November 6, 2014											_			_					_					_			
		Owner	LOAm (ft)	Disp (LT)	Science Berths	2010	2011	012	2013	2014	2015	6	2017	2018	2019	8	2021	2022	63	2024	2025	2026	2027	2028	2029	2030	End Year
SHIP/CLASS	BUILT	Owner	(19	(E)	Dennis	2	8	3	8	8	2	2	<u>N</u>	8	8	<u>N</u>	2	8	8	<u>N</u>	2	8	8	<u>N</u>	8	2	real
Global Class																											
Melville	1969	NAVY	85 (279)	2,944	38					X																	
Knorr	1970	NAVY	85 (279)	2,685	34					-x	M2 -						~										
Thomas G. Thompson	1991	NAVY	84 (274)	3,528	36						M ?						-^										
Roger Revelle	1996	NAVY	84 (274)	3,512	37																	x					
Atlantis	1997	NAVY	84 (274)	3,512	37																		X			~	
Marcus G. Langseth	1991	NSF	71 (235)	3,906	35 26																					X	2044
Sikuliaq	2014	NSF	80 (261)	3,665	20																					>	2044
Ocean/Intermediate Class			57 (40.0)	0.5.40																							
Kilo Moana	2002	NAVY	57 (186)	2,542	29		~																			>	2032
Wecoma	1976	NSF	56 (185)	1,150	18		X																				
Endeavor	1976	NSF	56 (184)	756	18											X											
Oceanus	1976	NSF	56 (184)	960	19						-					-Х											
Atlantic Explorer	1982	BIOS	51 (168)	1,297	20																	X					
New Horizon	1978	SIO	52 (170)	1,007	19									X													
Neil Arm strong	2015	NAVY	73 (238)	2,916	24							>														>	2045
Sally Ride	2015	NAVY	73 (238)	2,916	24							>														>	2045
Regional Class																											
Point Sur	1981	NSF	41 (135)	539	12					X																	
Cape Hatteras	1981	NSF	41 (135)	640	14				х																		
Hugh R. Sharp	2005	UD	44 (146)	598	14												-M-									>	2035
RCRV1	2021	NSF	58 (191)	1,488	18												>									>	2051
RCRV2	2022	NSF	58 (191)	1,488	18													>								>	2052
RCRV3	2023	NSF	58 (191)	1,488	18														>							>	2053
Coastal/Local Class																											
Robert Gordon Sproul	1981	SIO	38 (125)	696	12						-			X													
Pelican	1985	LUMCON	32 (105)	514	14						-		-			-Х											
Walton Smith	2000	Miami	30 (96)	156	16						-	-M														Х	
Savannah		SKID/UG		351	19								M- ·													>	2031
Blue Heron	1985	UMINN		275	6																X						
Clifford Barnes	1966	NSF	20 (66)	86	6							X															
Total Number of Vessels in Fleet						21	21	20	20	19	17	19 1	18	18	16	16	14	14	15	15	15	14	12	11	11	11	
X = Current projected Service Life End																											

M= Mid-life Refit





### **Proposed Schedule and Next Steps**

