



# ***The Regional Class Research Vessel (RCRV) Project:***

Presented to the UNOLS RVOC

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Solomon's Island, MD

Demian Bailey

# ***New Design Specifications***



Length – 175'-180'

Beam- 40'- 42'

Draft- 12'-14'

Berths-16 Sci, 12 Crew

positional concept  
wing: Glosten

# Fleet Renewal

## Global Class Ships



*Marcus G. Langseth*



*Sikuliaq*

## Ocean/Intermediate Class Ships



*Kilo Moana*



*Neil Armstrong*



*AGOR 28*

## Regional Class Ships



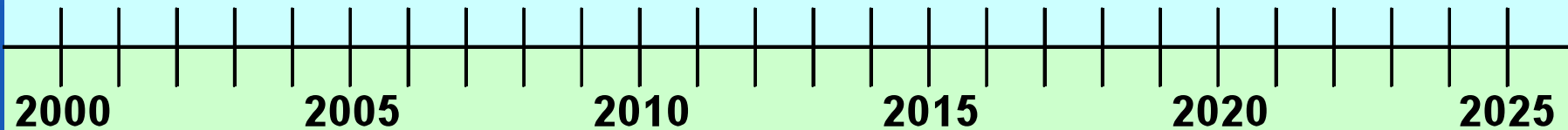
*RCRV2*



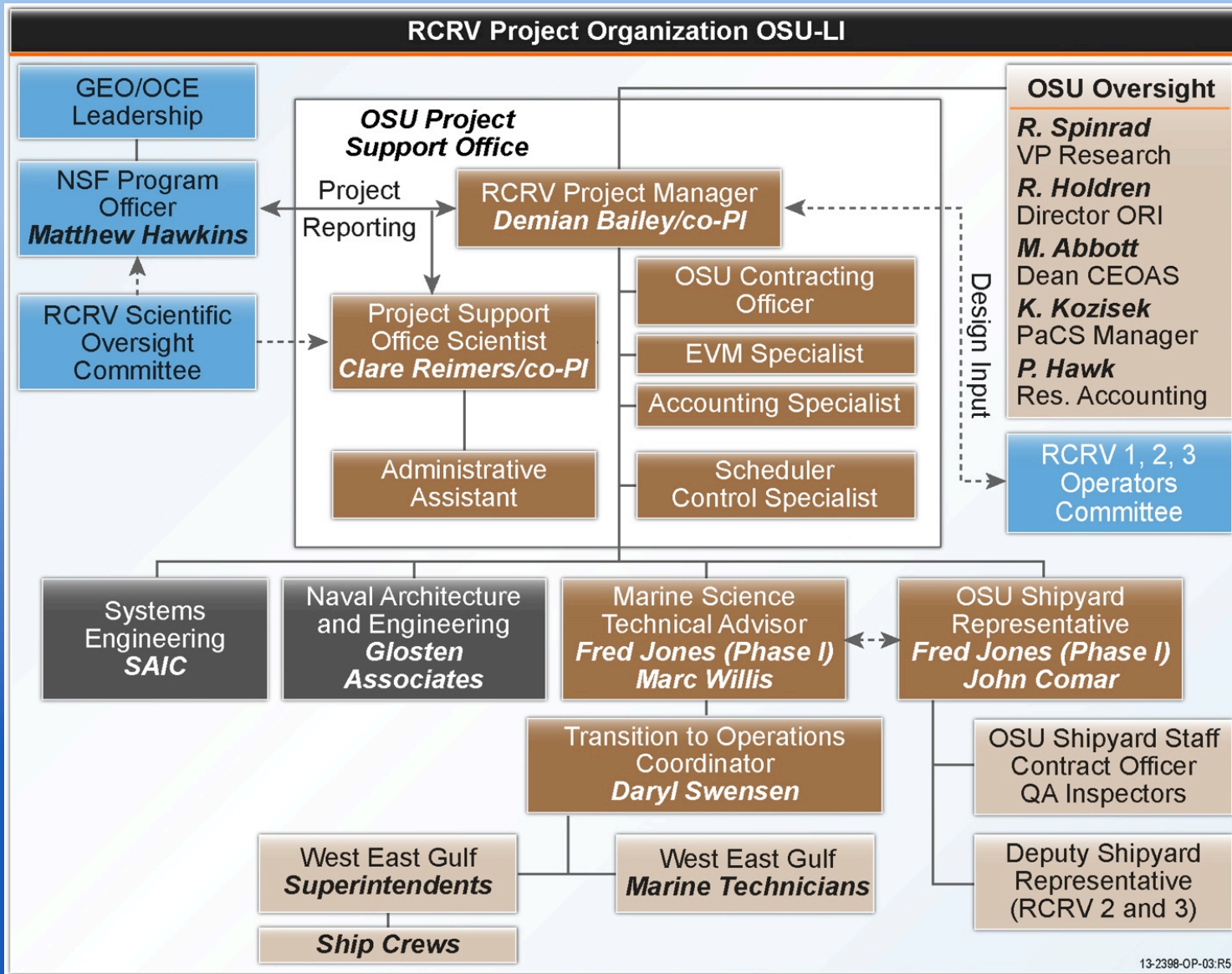
*RCRV1*



*RCRV3*



# Project Team and Oversight



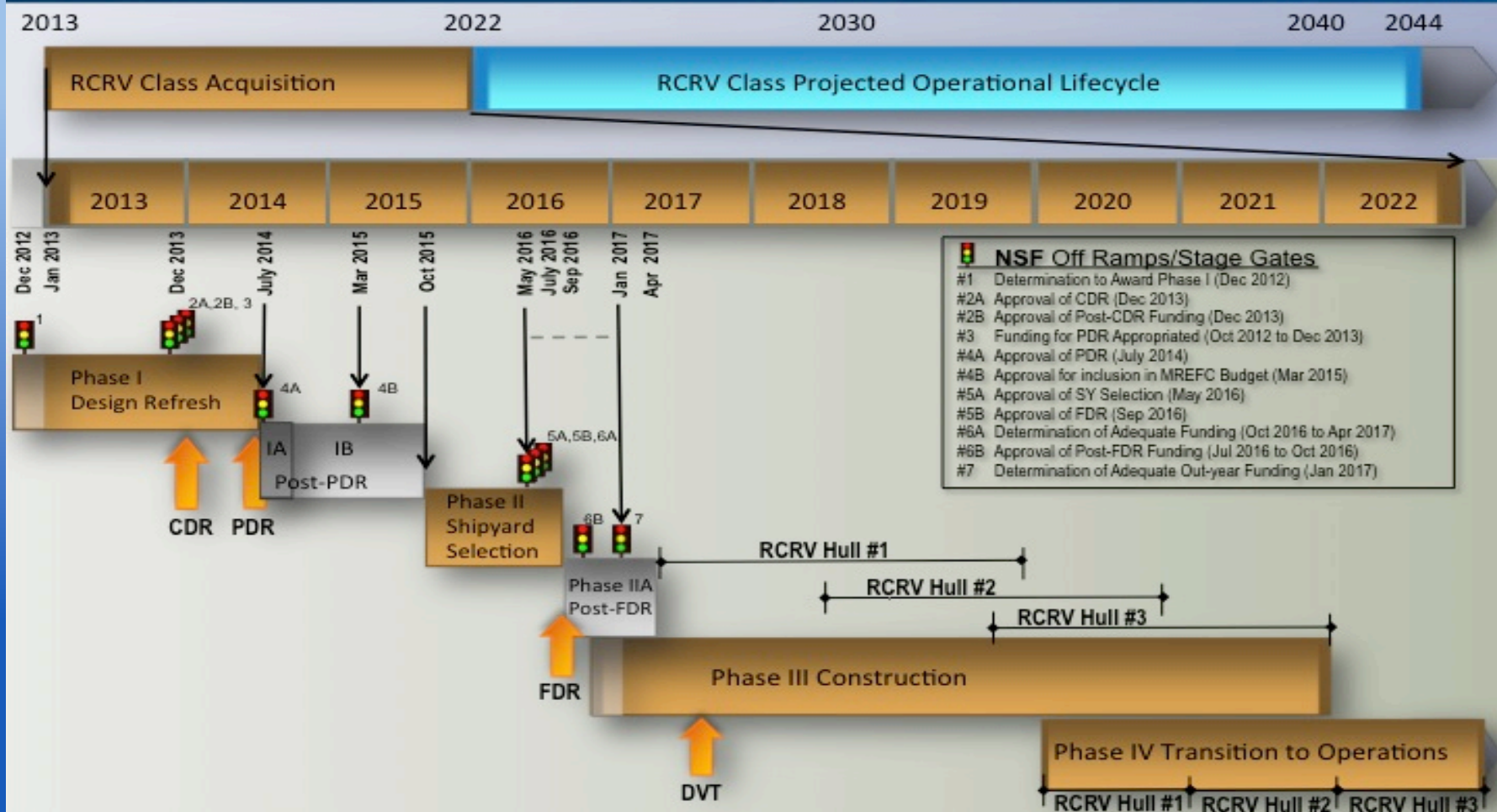
## ***Key Dates***

- CDR: December '13
- PDR: July '14
- MREFC: March '15
- Shipyard: May '16
- FDR: Oct-Dec '16
- OI Selection: October '17
- Hull 1 Dlv'd: December '19



# Program Schedule

## RCRV Class Acquisition Timeline



## ***Follow-on Vessels***

- Operator Institution Solicitation to be released in Q1 CY 2017,
  - Selection Panel in Q3 CY 2017
- This will follow a clear understanding of number of hulls to be constructed based on available funding.

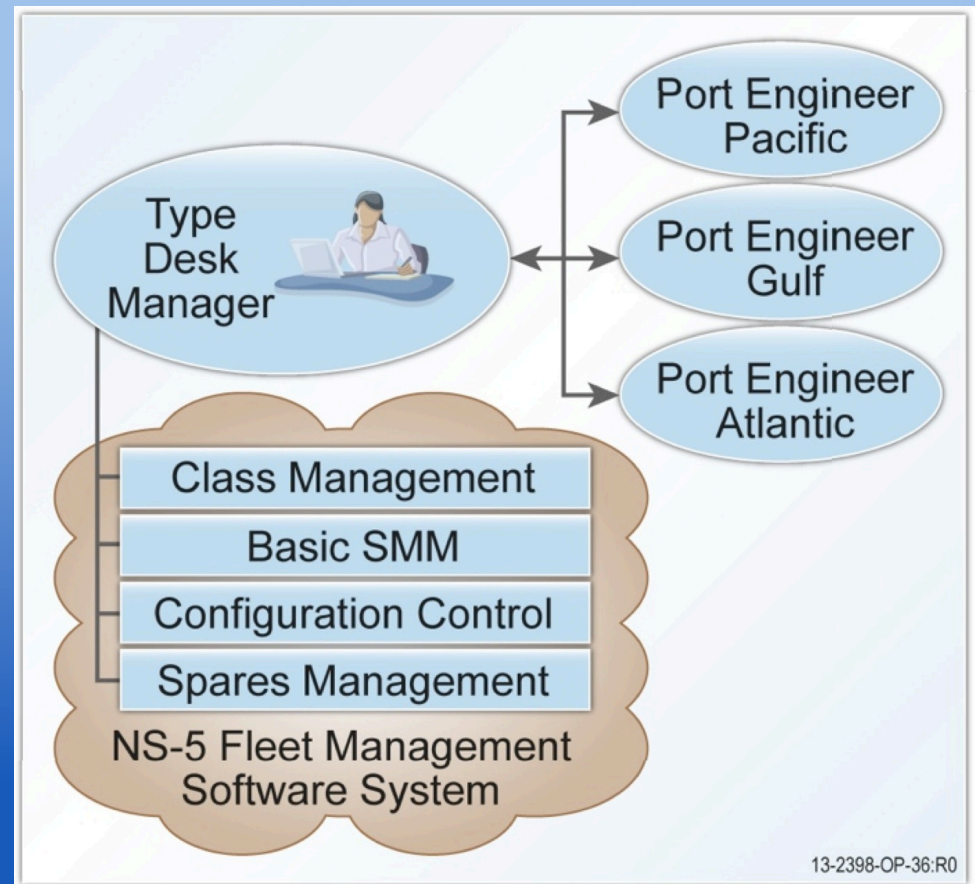
## ***Class Management (if)***

- Cost advantages can be realized where there are common processes. Beyond those, inefficiencies are imposed.
- Regional Operating Institutions maintain autonomy but reduce cost and effort by externalizing certain common functions.
  - Class Coordination
  - Spares Management
  - Configuration Management



# ***Class Management***

- Hull
- Structural modifications
- Propulsion plant
- Electrical plant  
(propulsion and electrical systems may be combined)
- Major over the side handling systems
- Global Maritime Distress and Safety System (GMDSS) suite
- Primary navigation
- Specialized science equipment (e.g., multibeam & ADCP data acquisition systems)



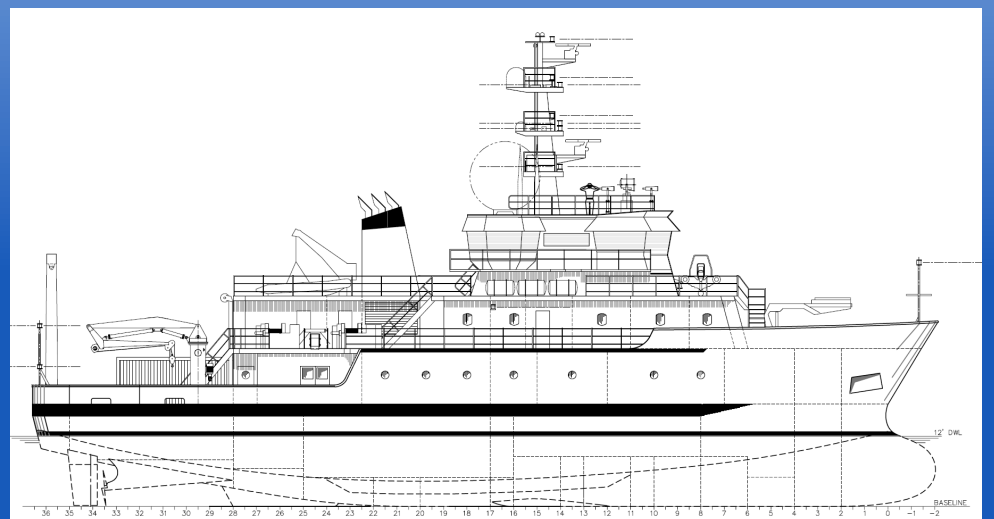
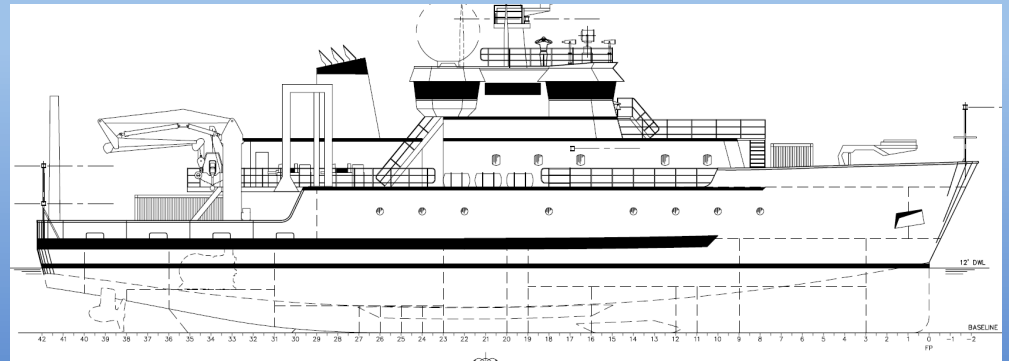
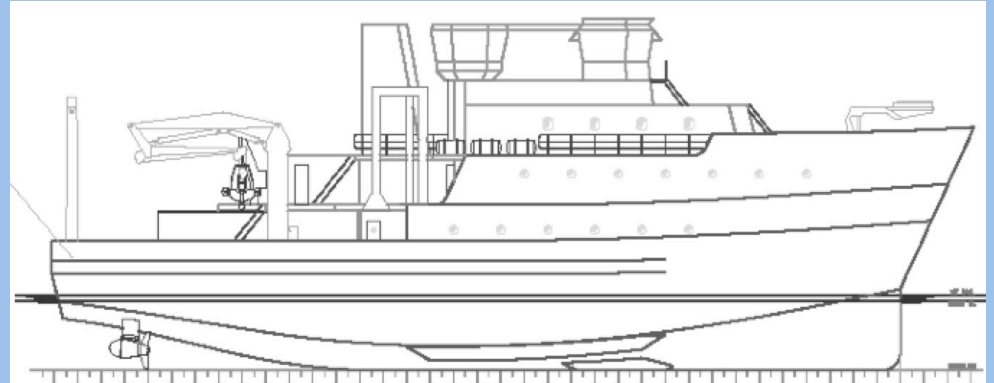
## ***Design Highlights***

- DP1+ for placement and servicing of benthic instrumentation and sample collection.
- Integrated shallow water acoustic multibeam bottom mapping and sub-bottom profiling systems.
- Large aft deck for operational flexibility: two 20' laboratory vans, plus adequate remaining deck space for multidisciplinary operations.

## ***Further Features***

- State-of-the-art handling systems (frames and winches) to improve efficiency and safety when deploying a wide array of science packages in various sea states.
- Full-time, high speed satellite connectivity for communications, internet access and data transfer.
- Low Underwater Radiated Noise (URN) signature for fisheries, acoustics, and marine mammal research and improved habitability.
- Compliance with latest Academic Fleet standards relating to the Americans with Disabilities Act (ADA) to improve access to the sea.
- To the maximum extent practicable, incorporation of commercially available and economically viable "Green Ship" technologies.

# Establishing Scope: RCRV Over Time



# ***Most Recent Gen'l Arngt***