



# Brief to UNOLS



## Class A: NOAA AGOR Variant (NAV)

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# 2016 NOAA Fleet Plan

## Proposed Vessel Classes

- Identified 4 new vessel classes
- Emphasis on multi-mission use

Ship	Primary Mission	Secondary Mission(s)
N/V Class A (2)	Oceanographic Monitoring, Research & Modeling	Assessment and Management of Living Marine Resources (no trawl),  Charting and Surveying
N/V Class B (2-4)	Chartering and Surveying	Assessment and Management of Living Marine Resources,  Oceanographic Monitoring, Research & Modeling
N/V Class C (2)	Assessment and Management of Living Marine Resources (near-shore, shallow-draft)	Chartering and Surveying
N/V Class D (1)	Assessment and Management of Living Marine Resources (near-shore and deep ocean, longer endurance)	Chartering and Surveying  Oceanographic Monitoring, Research & Modeling



# N/V Class A

## Overview

- 2016 Fleet Plan recommended initiation of Class A building on recent US Navy research vessel acquisitions. NOAA leveraging the USN AGOR documentation to help **expedite** procurement schedule.
- Interagency agreement 7600A initiated between NOAA and USN under the authority of the Economy Act (31 U.S.C 1535/FAR 17.5) for acquisition planning and execution activities at a ceiling value of \$1.5B.
- Program is an assisted acquisition with USN, Firm Fixed Price (FFP) Contract with Phase 1 (Preliminary/Contract Design) and Phase 2 (Detail Design and Construction)
- RFP released April 2018. Source Selection process finalized and award for Phase 1 PD/CD realized Q1/Q2 FY19. Currently in the middle of Phase 1 Design Competition with three shipyards:
  - Dakota Creek Industries, Inc.
  - Thoma-Sea Marine Constructors, LLC
  - VT Halter Marine, Inc.



# N/V Class A

## Primary Missions and Secondary Missions

- **Primary Missions**
  - Physical, chemical, and biological oceanography
  - Bathymetry, gravimetry, and magnetometry
  - Marine Geology and Geophysics
  - Ocean Engineering and Marine Acoustics
  - Multi-discipline environmental investigations
- **Secondary Missions**
  - Data collection sampling of surface, midwater, and sea floor parameters
  - Launch, towing, and recovery of scientific packages (tethered and autonomous)
  - Handling, monitoring, and servicing of ROVs and AUVs
  - Support diving operations
  - Deploy and recover AAVs, balloons, moorings, boats, free floating instruments
  - Shipboard data processing and analysis
  - Transmit data to and from NOAA shore stations, NOAA satellites, and other NOAA ships and platforms
  - Precise navigation and station keeping and track-line maneuvering



# N/V Class A

## General Characteristics

- Complement:
  - 20 crew
  - 24 science
  - Surge capacity of 4 additional personnel
- Design Speed: 12 knots
- Range: 10,000 nm
- Endurance: 40 days
- Maximum Navigational Draft: 17 ft
- Dynamic Positioning: DPS-I
- Ice Class: D0
- Full Operability up to Sea State 4 (Bretschneider)



# Questions