



NOAA Ship Recapitalization Study

HYDROGRAPHIC SERVICES REVIEW PANEL



FY 2005 Appropriations Conference Report 106-792



“The Committee is concerned that hydrography, coastal research, fisheries, marine mammal, essential fish habitat, oceanic and atmospheric research and other requirements may continue to go unmet given NOAA’s current [ship] procurement and contracting Plans.”

“The Committee requests that NOAA provide a ship and aircraft fleet modernization plan to the Committees on Appropriations, as well as relevant authorization committees.”



Approach



Ships

- *Ship Recapitalization Plan*
- *Interim Study (FSV 5 and 6)*
- *Report to Congress*

Aircraft

- *Aircraft Recapitalization Plan*
- *Report to Congress*



Ship Recapitalization Plan Development



***Mission
Needs
Assessment***

***Requirements
Development***

***Analysis of
Alternatives***

***Optimization
Analysis***

***Ship
Recapitalization
Plan***



Mission Needs Assessment



An assessment of the NOAA programs that require at-sea data-acquisition support and the shortfalls in NOAA's ability to provide the services required by its customers performing the agency missions more efficiently or effectively.

*A **Mission Needs Statement (MNS)** will summarize these Missions, quantify the shortfalls and their impacts, and provide justification for the need for agency action to resolve these shortfalls.*



Requirements Development



Mission needs and functional requirements will be translated into high-level preliminary operational performance requirements that will describe the capabilities and parameters for proposed solutions.

*An **Operational Requirements Document (ORD)** will establish minimum and optimum performance standards for recommended operationally effective at-sea data-acquisition systems.*



Analysis of Alternatives



*An **Analysis of Alternatives (AoA)** will explore a number of potential solutions for satisfying NOAA's shipboard data-acquisition needs in terms of ship size and ownership. If determined that a NOAA ship is most appropriate for satisfying particular NOAA missions, then further analysis will recommend whether investments in current assets or new assets are most appropriate.*



Optimization Analysis



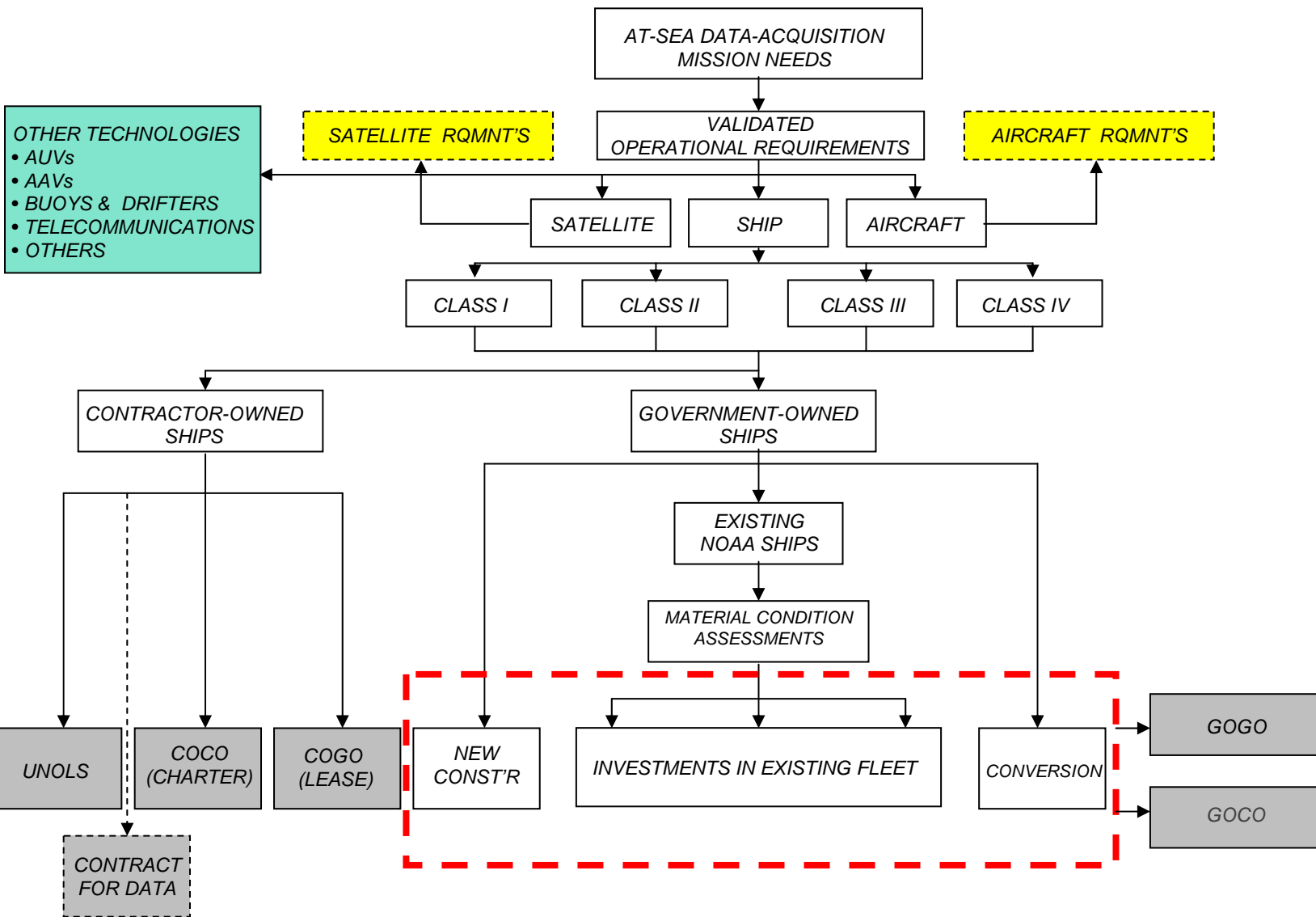
Analysis to determine the optimum mix of Government-owned and contractor-owned ships, staffing models, Optempo, and homeports in terms of cost- and mission-effectiveness needed to satisfy NOAA's shipboard data-acquisition requirements.



Ship Recapitalization Plan



The preceding analyses will provide the foundation for developing intermediate- and long-term investment strategies for recapitalizing the NOAA Fleet (FY 2009 - 2024).



Alternatives for Supporting NOAA At-sea Data-acquisition Requirements



FSV 5 and 6 Interim Report



This interim report will address FSV 5 and 6 mission needs, operational requirements, and alternatives to support the FY 2009 request for initial funding.



Report to Congress



A summary of the findings and recommendations contained in the comprehensive Ship Recapitalization Plan will serve as the basis for the Report to Congress.



Milestones



<u>Phase</u>	<u>Completion Date</u>
<i>Mission Needs Statement</i>	<i>late-Mar</i>
<i>Interim Report (FSV 5 and 6)</i>	<i>31 Mar</i>
<i>Operational Requirements Document</i>	<i>late-Apr</i>
<i>Analysis of Alternatives</i>	<i>mid-Jul</i>
<i>Optimization Analysis</i>	<i>late-Aug</i>
<i>Comprehensive Plan</i>	<i>mid-Oct</i>
<i>Report to Congress</i>	<i>late-Oct</i>



HSRP Contributions



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- *Comment on Recapitalization Plan development approach*
 - *Review/comment on Draft Recapitalization Plan (Sep 2006)*



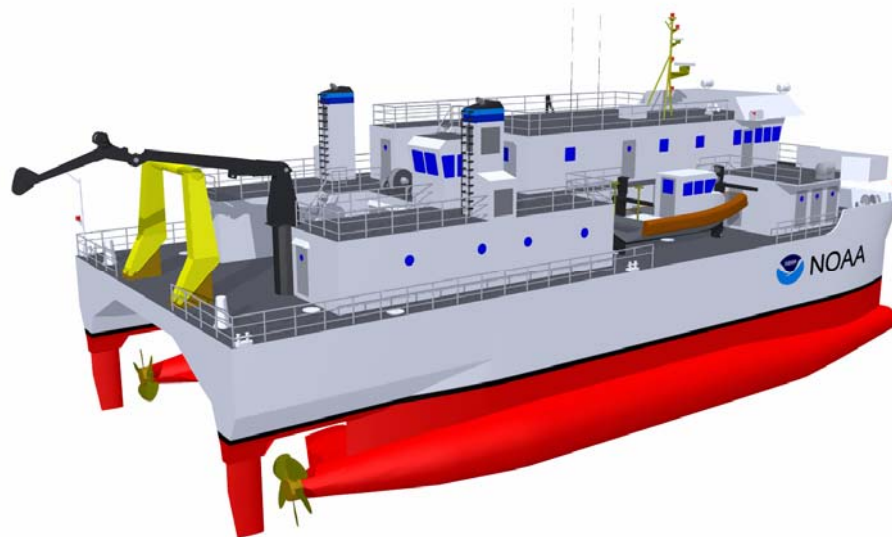
SWATH CMV Update



- *Two-phased fixed-price contract*
 - *Phase 1 – Design competition*
VT Halter Marine, Inc. selected Sep 2004
 - *Phase 2 - Contract design effort with option for detailed design and construction - Exercised Sep 2006*
- *Scheduled keel laying – 15 Jun 2007 (Mrs. Sununu – sponsor)*
- *Contract delivery date – 18 Jun 2008*
- *Appropriations sufficient to exercise design/construction option*
 - *FY 02-06 appropriations minus \$8.0M in rescissions = \$19.1M*
- *Available funding insufficient to fund additional*
 - *management reserves*
 - *vessel capacity improvements (dynamic positioning, integrated bridge system, increased A-frame and crane loads)*
 - *spare parts and outfitting*



SWATH CMV Update



Length Overall - 37.7 m (123.6 ft)	Propulsion Power - 2,900 HP
Beam - 18.5 m (60.7 ft)	Design Speed - 12.4 knots
Draft - 3.65 m (12 ft)	Endurance - 2,750 nm/10-day mission
Displacement - 720 Mt (708.4 LT)	Complement - 14 persons



Damage Assessment Aircraft Acquisition Update



- *Changes in NOS sensor suite require lower-slower flight profiles*
- *Replace Citation II jet with a multi-mission turbo prop aircraft*
- *Acquisition funded under Hurricane Katrina supplemental bill (\$12M)*
- *Aircraft acquisition*
 - *Sources Sought Notice – Jan 2007*
 - *Request for Proposals – Mar 2007*
 - *Contract Award – Jun 2007*
 - *Aircraft Delivery – NLT Jun 2008*
 - *Aircraft Operational – Oct 2008*
- *Instrumentation*
 - *NOS considering large format digital camera and topo lidar*
 - *Aircraft acquisition cost will determine funds available for final instrumentation package*



Damage Assessment Aircraft Acquisition Update



All aircraft (new and pre-owned) will be considered. The following are examples of aircraft meeting the minimum requirements:

- *Raytheon Aircraft Corporation
King Air 350*
- *Viking Aircraft Corporation
Twin Otter Series 400*
- *Piaggio Aerospace Corporation
P-180 Avanti II*
- *SkyTruck
M28 SkyTruck*

