

# SMR Update and Input to Ocean Class R/V RFP Development

## Project Description and Tasking:

- **SMRs could benefit from some update, re-organization as well as incorporating lessons learned.** Stronger statements about minimum requirements and relative priorities are needed to make the SMRs more effective in the design development process.
- **Three key concepts** would improve the utility of the SMRs:
  - **Create an SMR statement of research vessel design principals and requirements (would apply to all classes):** Would include statements about such things as habitability, noise levels, lighting levels, lab design standards, pollution control, communications capabilities, etc. Quantifiable items would be presented in a table with columns for absolute acceptable minimum and an ideal target value.
  - **Class specific requirements** such as range, endurance, speed, number of science berths, number, size and type of laboratory spaces, main work deck area size, etc. would vary according to the class of vessels. These are quantifiable and would be presented in a table similar to the one above.
  - **Establish a relative priority for each requirement.** Cost drivers in ship design and construction should be considered.

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## Timeline:

- **Near-term:**

- This effort could have a beneficial impact on the current effort by ONR and PEO-Ships to create the RFP and performance specifications for the Ocean Class design effort. PEO-Ships is currently working on a notional design that would be used to create a cost estimate for the project and they are also working on the specifications and RFP language.
- Community feedback over the next couple of months regarding the minimum acceptable values, target ranges, and relative priorities for the Ocean Class SMRs would be useful for their efforts.

- **One Year:**

Finalizing revised SMRs for Regional, Ocean and Global Class can take place over a longer time frame, but could be completed within a year.

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## Status and Proposed Process:

- UNOLS Office created Ocean Class SMR Table of Values and Priorities
- FIC, NSF, ONR and PEO-Ships reviewed the SMR table which, in addition to desired targets, has minimum threshold values. Each item was assign a level of relative priority (critical, very important and important).
- Revised SMR table used as basis for Ocean Class AGOR's specifications in their RFP for Phase I
- Revised SMR table posted on UNOLS web site for community comment. Received responses from more than 150 people representing more than 30 institutions.

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## Status and Proposed Process (continued):

- FIC revised the actual requirements and priorities, provided them to PEO-Ships and ONR, posted them to UNOLS web site
- Need to determine how the text of SMRs should be reorganized to increase the utility of the SMRs – Not sure how best to do this.
- Revise the Regional and Global Class SMRs
- Determine how to include Lessons Learned to document
- Compare (present and planned) vessels in a Class to the SMRs

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## **Next Steps - Finalize SMRs:**

- With FIC and Council approval, provide Ocean Class SMR final draft to ONR and PEO-Ships
- Create final draft of all three SMRs and post for final comments.
- FIC and Council approve final revised SMRs