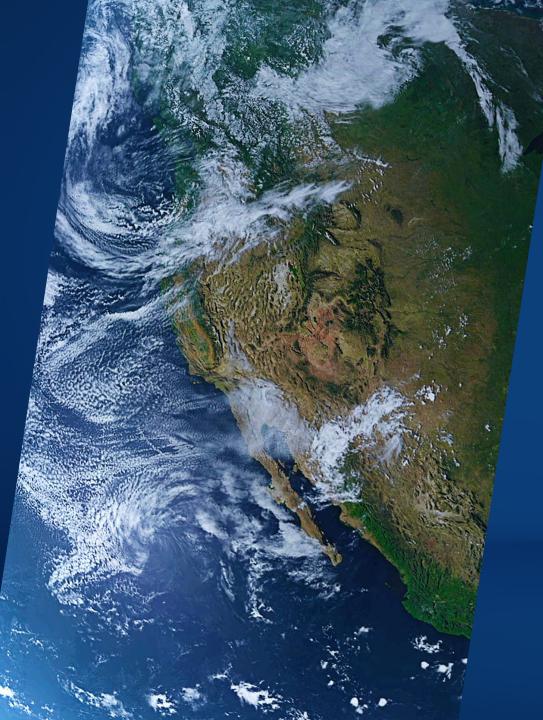


National Association of Marine Laboratories



Dr. Shelby Walker
Directorate for
Geosciences
March 24, 2022





GEO facilities

FY22 request

- Nearly \$1B in major facilities operations
- An additional nearly \$100M in new major facilities construction

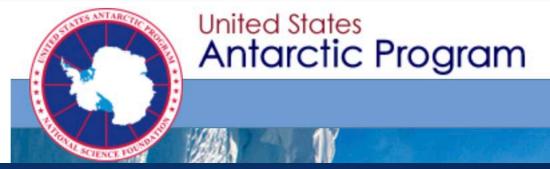
SAGE GAGE IRIS UNAVCO.

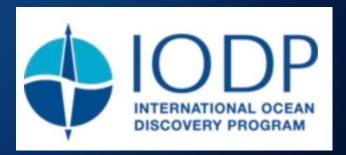
NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

WORLD-CLASS RESEARCH IN EARTH SYSTEM SCIENCE





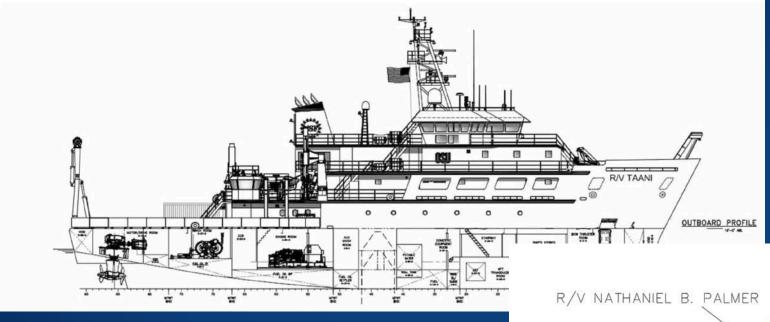




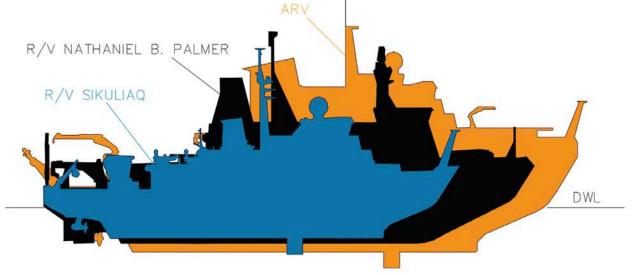




Regional Class Research Vessel Ship Design







Antarctic Research Vessel (ARV)



Mid-Scale Research Infrastructure

- "NSF defines Research Infrastructure (RI) as any combination of facilities, equipment, instrumentation, or computational hardware or software, and the necessary human capital in support of the same"
- Mid-scale fills the gap
 - Major research instrumentation (MRI): <\$4M
 - Major multi-user facilities: >\$100M



Mid-Scale Research Infrastructure

- Fills a research community-defined scientific need or national research priority that enables current and next-generation U.S. researchers and a diverse STEM workforce to remain competitive in a global research environment.
- Demonstrates high potential to significantly advance the Nation's research capabilities.
- Directly enable advances in any of the research domains supported by NSF, including STEM education research
- Scope
 - For Mid-Scale RI 1: Can be design or implementation
 - For Mid-Scale RI 2: Projects may also include upgrades to existing research infrastructure



Mid-Scale RI projects

- Mid-scale RI-1
 - Design: \$600K \$20M
 - Implementation: \$6-20M
 - Supported by R&RA
- Mid-scale RI-2
 - Implementation only: \$20M \$100M
 - Proposals require more extensive review (site visit reviews, reverse site visit reviews, cost/schedule/management reviews)
 - Longer timeline
 - Supported by MREFC, requires NSB approval



MSRI-1: Ocean Bottom Seismometers







Meet TIP – Technology, Innovation and Partnerships

A new directorate at the U.S. National Science Foundation

- First new directorate in 30 years
- Focused on
 - Fostering innovation ecosystems,
 - Establishing translation pathways
 - Partnering across sectors to engage the nation's diverse talent
- Cross-NSF activities



Thank you!

