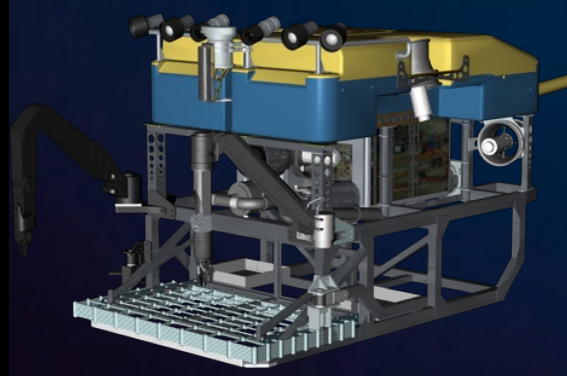
NDSF NATIONAL DEEP SUBMERGENCE FACILITY

A federally funded center of excellence that provides the scientific community with access to the deep sea

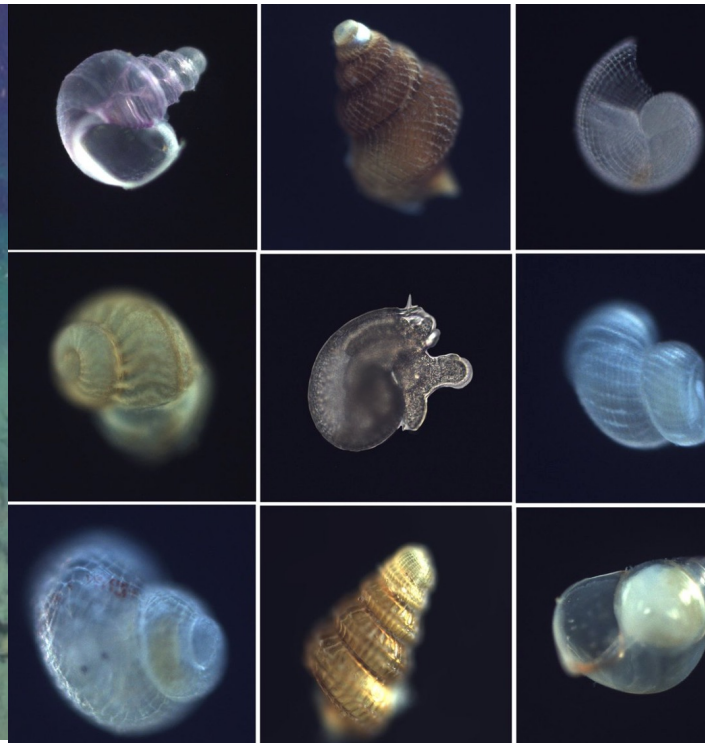
DSV ALVIN



ROV JASON

AUV SENTRY

Exploration, Sampling & Sensing, Mapping

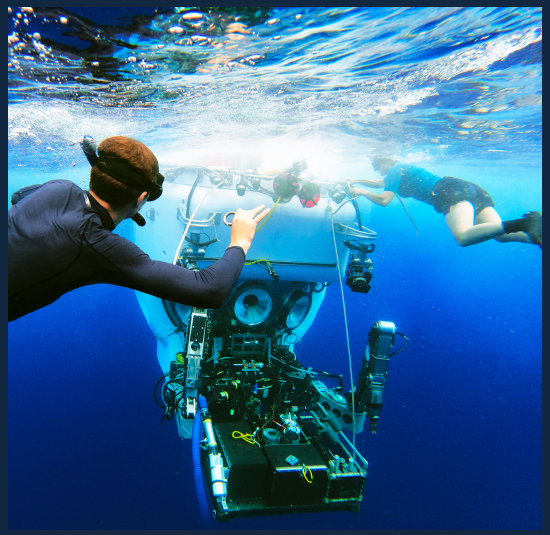


"NDSF vehicles are … important for seafloor studies and deep-ocean studies, including those related to geological extreme events and critical minerals research."

National Academies of Sciences, Engineering, and Medicine. 2025. Forecasting the Ocean:

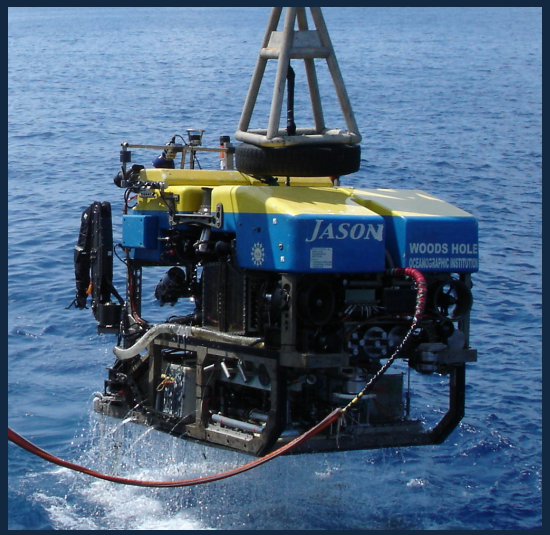
Access to the deep ocean

Alvin
Human-occupied vehicle



6500 m rated

Jason
Remotely-operated vehicle



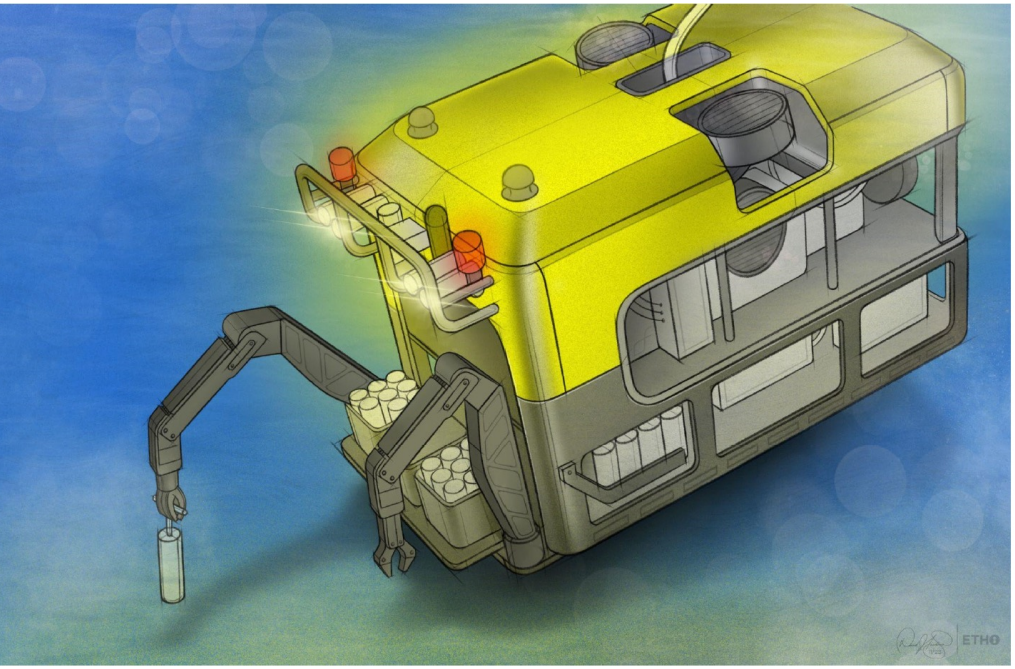
6500 m rated

Sentry
Autonomous underwater vehicle

6000 m rated

Multi-vehicle cruises
Expanding the footprint of deep ocean research

mROV



"in response to community assessments, the NDSF has received support from NSF to build a smaller, more affordable midsize ROV to meet growing demand, especially in nearshore and coastal environs, which can be deployed from the new, NSF-owned RCRVs and other vessels."

NDSF NATIONAL DEEP SUBMERGENCE FACILITY

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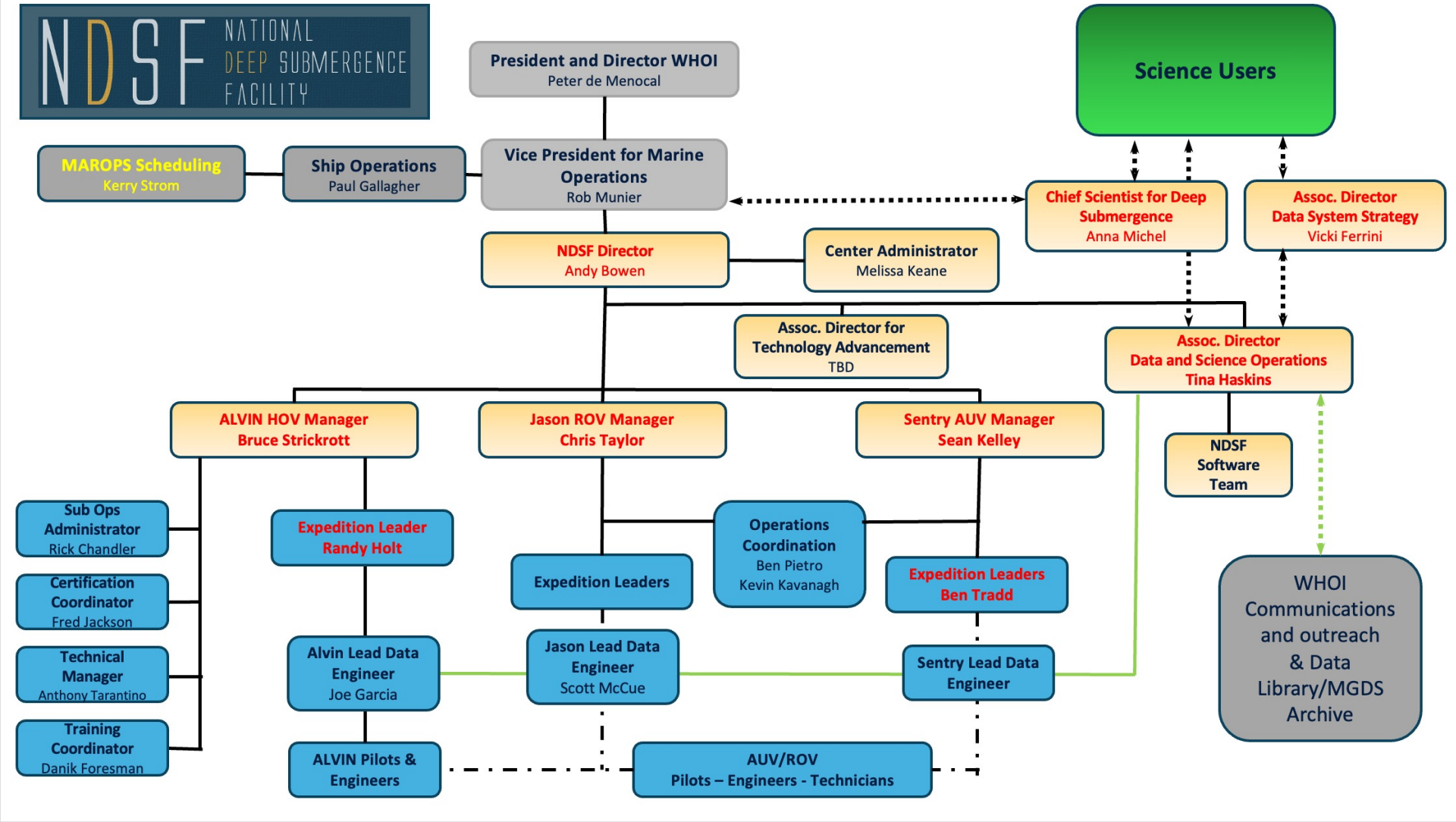
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Danik Foresman
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Randy Holt
Expedition Leaders
Operations Coordination
Ben Pietro
Kevin Kavanagh
Expedition Leaders
Ben Tradd
WHOI Communications and outreach & Data Library/MGDS Archive
Alvin Lead Data Engineer
Joe Garcia
Jason Lead Data Engineer
Scott McCue
Sentry Lead Data Engineer
ALVIN Pilots & Engineers
AUV/ROV
Pilots – Engineers - Technicians

Chief Scientist for Deep Submergence

- Liaison between scientists who use/want to use the vehicles and the operators
- Science "voice" to NDSF
- Ex-Officio member of UNOLS DeSSC Committee
- Chair mROV Science Advisory Committee

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