



2025-2035 Decadal Survey of Ocean Sciences for the National Science Foundation







- Report expected early 2025
- Forward-looking approaches to guide investments in research, infrastructure, and workforce development
- Will update priorities identified in Sea Change Survey: 2015-2025
- Will identify research infrastructure needed to advance high-priority ocean science research questions



GEO Directorate 'Success Rates' for competitively reviewed awards





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- FY24: Reduction in NSF budget led to a decrease in funding rates across all GEO divisions
- FY25: ???? Currently under a continuing resolution through 12/20/2024



Marine Geology and Geophysics (MGG) Program Directors

- Gail Christeson, permanent program director, marine seismology, marine geophysics
- Al Wanamaker (Iowa State), program director rotator, paleoceanography / paleoclimate
- Scott White (U South Carolina), program director rotator, seafloor volcanology, marine geophysics
- In process of hiring a permanent program director with a specialty in marine sediments / paleoceanography / paleoclimate.



Al Wanamaker



Scott White



Gail Christeson

MGG Program Portfolio



- 3 Core Panels per year (no deadlines or target dates)
 - Oceanic lithosphere
 - Paleoceanography, paleoclimate
 - Submarine volcanology, petrology, geochemistry
 - Marine hydrogeology, gas hydrates, hydrothermal vents
 - Geochemical indicators of life operating below seafloor
 - Marine sedimentology and coastal processes
 - Mid-ocean ridge spreading, back-arc rifting, transform processes
 - Submarine components of subduction zone systems and passive margins
 - Marine geohazards
- P4Climate (1 panel per year) Paleo Perspectives on Present and Projected Climate (cross-division solicitation)
- Facilities ocean bottom seismometers, core and sample repositories
- Other: RAPIDs, lead-agency agreements (e.g., NERC-NSF, SNSF-NSF), supplement, etc

MGG: Field Projects



~10 large programs per year

- Sediment coring
- Active-source seismic
- Passive seismic (ocean bottom seismometers)
- Electromagnetic methods
- Seafloor geodesy
- Bathymetry, sidescan, magnetics
- Alvin / Jason / Sentry
- Dredging

FY24: Continued commitment to supporting field programs

- 2 Coring
- Alvin/Sentry/Coring (CO lead)
- Jason/Sentry
- Jason/Sentry/Coring
- Dredging
- Electromagnetic/Dredging
- Active-source seismic
- Hydrothermal flow (non-US vessel)
- Seafloor geodesy



Marcus Langseth Regional Plan



NSF will accept proposals to use R/V *Langseth* in calendar years 2026-2028 as follows:

- 2026: Western Atlantic, Gulf of Mexico, Caribbean, transitioning to the eastern Pacific
- 2027-2028: Eastern Pacific, transitioning to western Pacific



U.S. ARF Scheduling Timeline for NSF Proposals



Challenges:

- Heavy pressure on larger ships. Backlog from pandemic, delay in delivery of regional class research vessels (RCRVs).
- Heavy use of deep submergence assets.



Lead Agency Opportunities – joint proposal that undergoes a single review process through the Lead Agency

- UK agency with higher budget carries out review
- Switzerland agency that carries out review alternates annually
- Israel undergoes NSF review
- Germany collaborative research on climate change; agency with higher budget carries out review

https://www.nsf.gov/geo/geo-leadagency-opps/

Country	Webpage
Germany	Dear Colleague Letter, NSF 23-113 (May 2023)
Ireland/Northern Ireland	Dear Colleague Letter, NSF 20-264 (March 2020)
Israel	Dear Colleague Letter, NSF 21-119 (September 2021)
Switzerland	Dear Colleague Letter, NSF 23-049 (January 2023)
Taiwan	Dear Colleague Letter, (July 2020)
United Kingdom	Dear Colleague Letter, NSF 16-132 (September 2016)