



NSF Report
MSROC December
2023

Dr. Gail Christeson
Division of Ocean Sciences
Marine Geology and Geophysics
Program



U.S. National Science Foundation
Division of Ocean Sciences

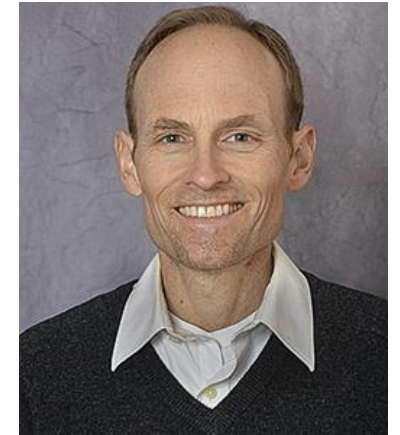


Update on Marine Geology and Geophysics Program (MGG) Staffing

- Al Wanamaker (Iowa State), program director rotator, paleoceanography / paleoclimate
- Scott White (U South Carolina), program director rotator, seafloor volcanology, marine geophysics
- Sandy Castellano: science assistant for MGG and Chemical Oceanography
- Joe Carlin (Cal State Fullerton) will depart summer 2024 and MGG is planning to advertise for a program officer position with expertise in marine sediments or paleoceanography / paleoclimate



Al Wanamaker



Scott White



Sandy Castellano



Joe Carlin



NSF Marine Geophysics FY23

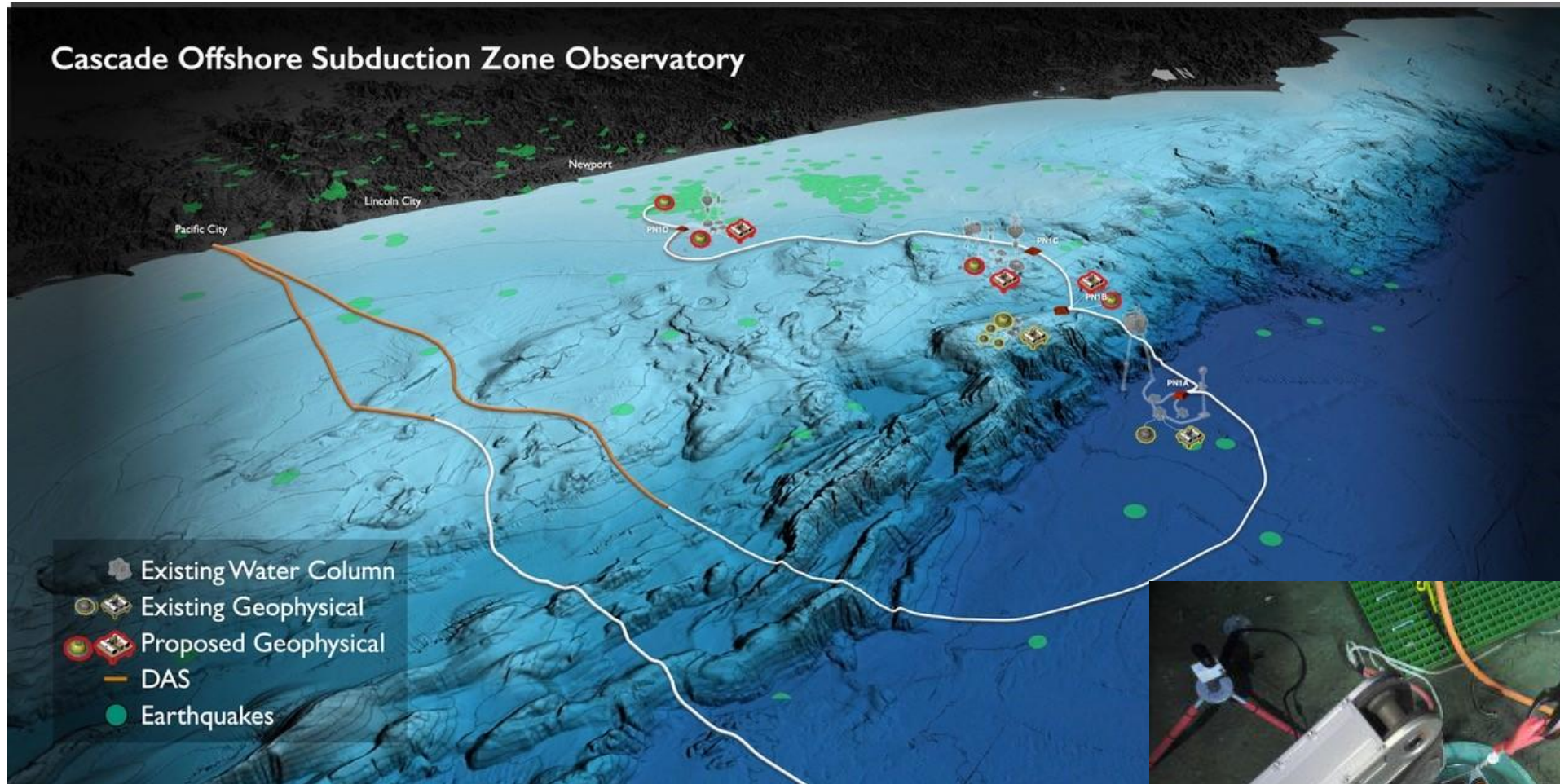
Funded field projects (8)

- Puerto Rico subduction zone structure (MCS, active-source OBS)
- Chain Transform Fault (MCS, OBS seismicity, dredging)
- Subduction Initiation along Matthew-Hunter Trench (OBS)
- Intraplate melting processes northwest New Zealand (OBS)
- Fluid circulation in oceanic crust, southern Mexico subduction zone (Scripps MCS, heatflow)
- Geodetic monitoring at Axial Seamount (seafloor geodesy)
- Understanding tsunami genesis offshore central America (seafloor geodesy)
- Arc melt generation at Lesser Antilles subduction system (EM)



NSF MGG FY23

- OBSIC Renewal Award
- Core and Sample Repository Renewal Awards
- 4 CAREER Awards
- 3 Mid-Career Advancement Awards (MCA)
- 6 RAPID Awards (Hurricane Ian, Fiona)
- Co-reviews with OCE-BIO, OCE-CO, OCE-PO, EAR GG (Geobiology and Low-Temperature Geochemistry), EAR-Geophysics, EAR-Hydrology, EAR SGP (Sedimentary Geology and Paleobiology)
- Co-funding for Cascadia Region Earthquake Science Center (CRESCENT)
- Managing program for Cascadia Mid-scale Award – adding seismic sensors and seafloor pressure gauges to OOI regional cable observatory offshore Oregon



Will include broadband seismometer, hydrophone, calibrated pressure gauge, current meter



Marcus Langseth Regional Plan



NSF will accept proposals to use R/V *Langseth* in calendar years 2025-2026 as follows:

- 2025: Atlantic, Gulf of Mexico, and eastern Pacific
- 2026: Eastern Pacific, western Atlantic, Gulf of Mexico, Caribbean



GEO Directorate 'Success Rates' for competitively reviewed awards

Overall FY 2023 GEO Funding Rate: 42%



- Expect level or decreased OCE and MGG Program funding
- Average budget requests have been increasing, especially since FY20
- Prediction: Slight reduction in success rates



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

- Germany (new!) – collaborative research on climate change; agency with higher budget carries out review
- Switzerland (new!) – agency that carries out review alternates annually
- Israel – undergoes NSF review
- UK – 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) |