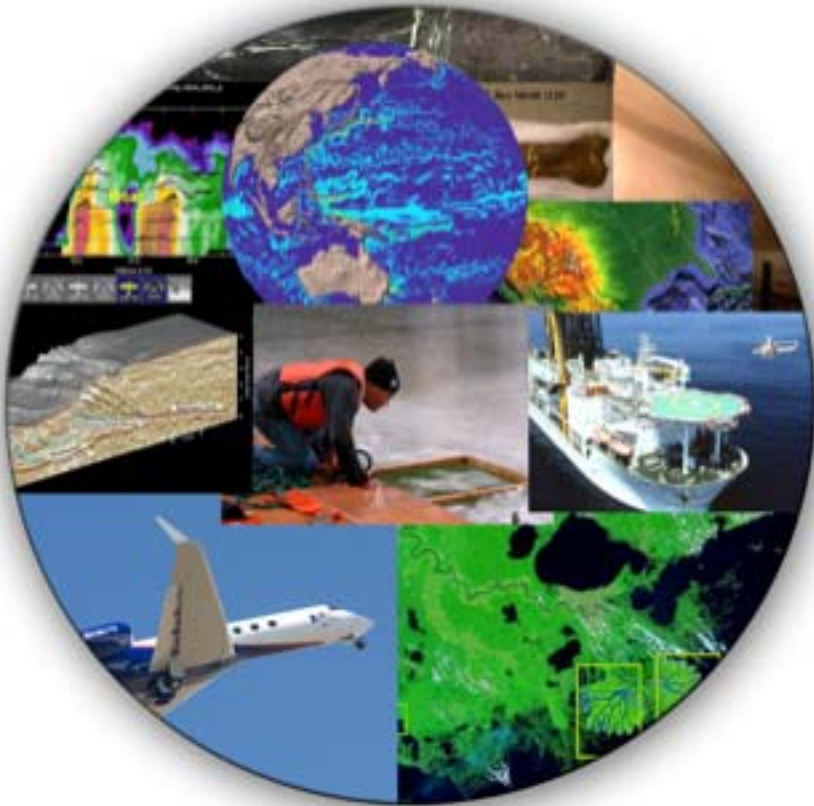


# GEO Infrastructure: Building and Maintaining the Right Tools to Support GEO Science Research



Bob Houtman  
Head, Integrative Programs  
Section

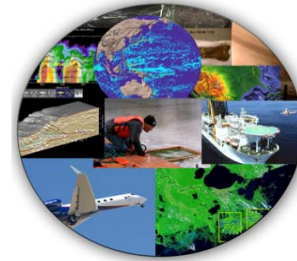


# GEO Vision



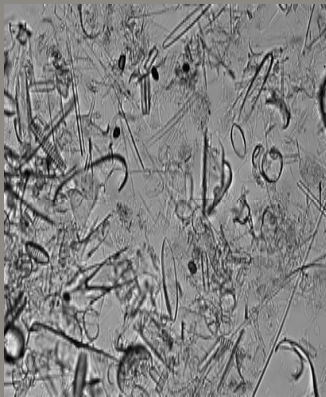
- Three main challenges to GEO community for next decade:
  - Understanding and forecasting the behavior of a complex and evolving Earth system
  - Reducing vulnerability and sustaining life
  - Growing the geosciences workforce of the future

# GEO Vision



- GEO must engage other NSF Directorates and external partners in ambitious basic research that furthers understanding of our Earth...
- Enabling this research requires a solid infrastructure of modern observational tools and computational capacity...
- Continued renewal and development of such tools is essential...

# FY2010 Climate Research Investment Solicitations (\$197M across agency; \$46M GEO)



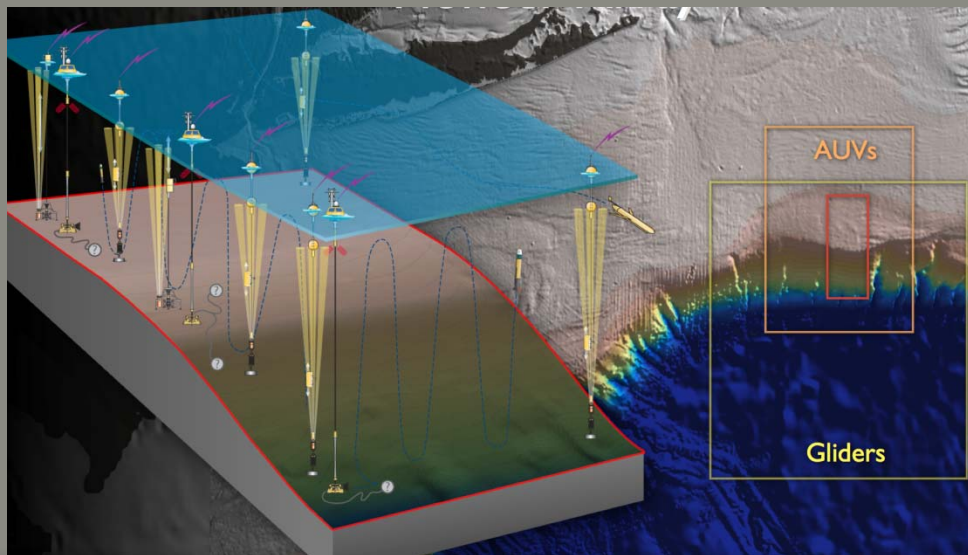
- Decadal and Regional Earth System Modeling
- Water: Sustainability and Climate
- Ocean Acidification
- Dimensions of Biodiversity and Climate
- Climate Change Science Education

# GEO Investments

- EarthScope
- AMISR
- HIAPER

OOI: \$106M

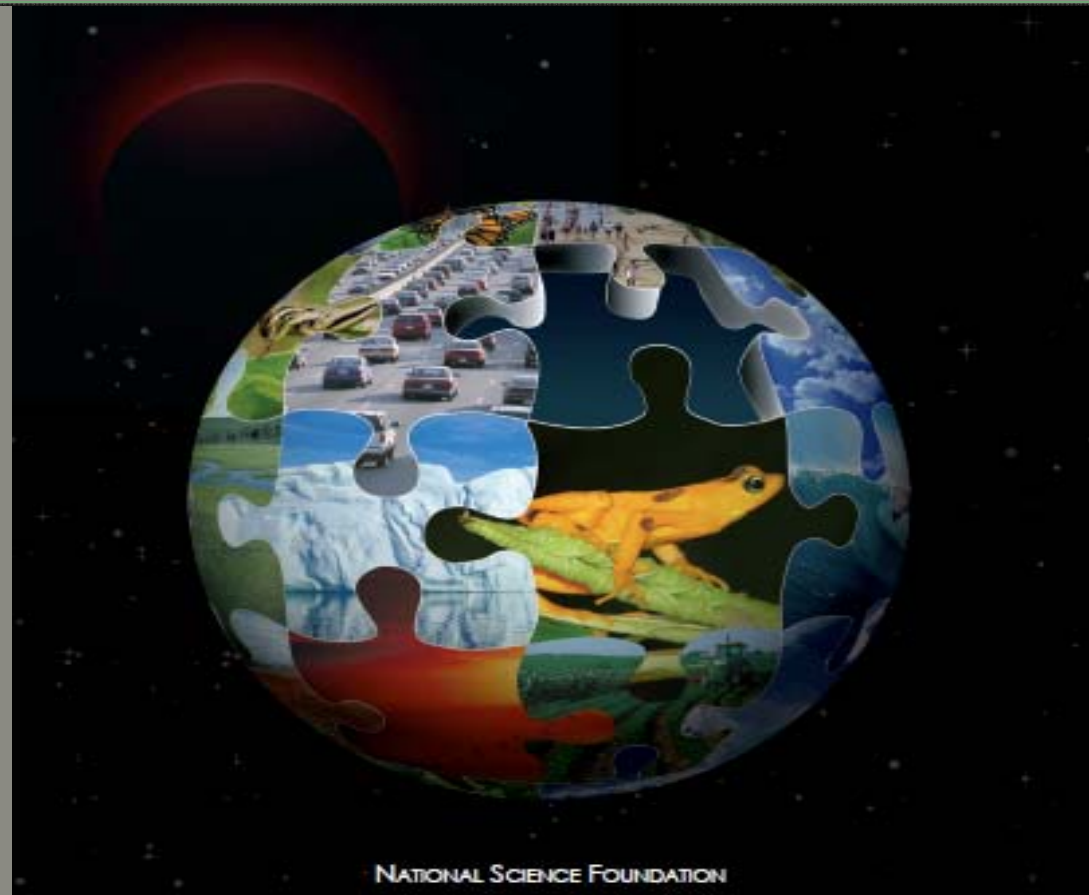
R/V SIKULIAQ: \$148M





# US Academic Research Fleet Operations & Maintenance





Questions?