

Marshaling Agency Resources to Investigate Submarine Canyons: The Past and Future

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2011-2015: Three Complementary Federal Initiatives:

- Norfolk & Baltimore Canyons: BOEM-USGS-NOAA
- Northeast Regional Initiative: NOAA National Marine Fisheries Service
- NOAA Ship Okeanos Explorer

Academic scientists critical to success of every mission



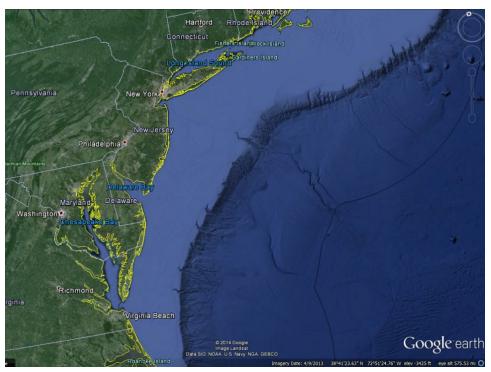
Western Atlantic Canyons

Context: Way back in 2010...

Shelf break and slope off the northeastern US supports a diversity of habitats including more than 70 canyons ranging from ~100m to ~3500m depth:

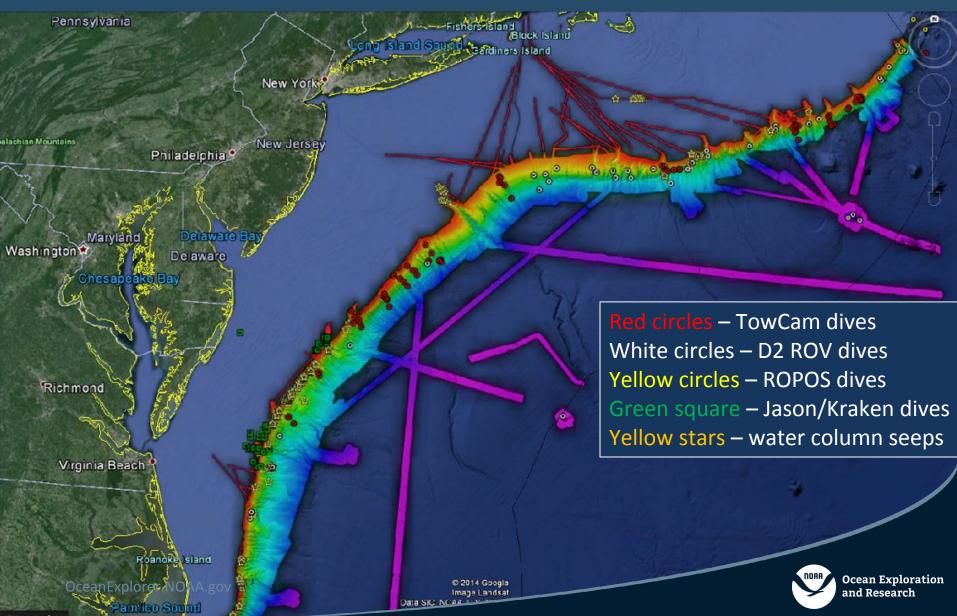
- Substantive work in area during '70s and '80s. Very limited work in '90s and '00s.
- Habitats threatened by fishing activities. Interest in potential oil and gas resources.
- Managers relying on outdated and imprecise data:
 - Early work funded by BLM and MMS from 1970s and 1980s
 - Museum records from early exploratory trawling
 - Not all relevant data publicly available







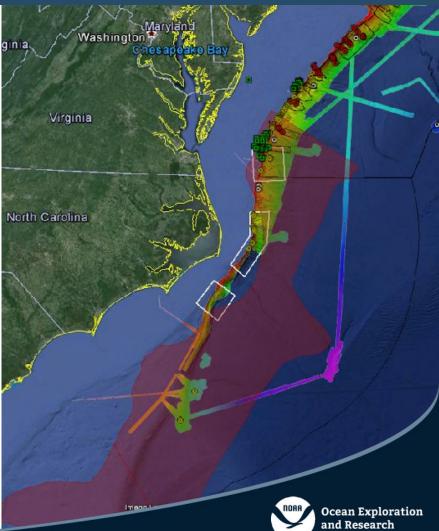
2011-14 Field Operations Summary



Evolving 2016-20 U.S. Interagency Effort: Offshore U.S. Mid and South Atlantic

- Complement 2011-2015 effort
- Federal partners NOAA, USGS, BOEM*
- Focus on offshore areas between
 Virginia and Georgia/Florida border
- Integrated science priorities:
 - Defining connectivity of vulnerable ecological communities
 - Tsunami prediction and coastal hazards
 - Science-based decision-making associated with living marine and energy resources
- Potential expansion into international TransAtlantic Campaign:

* Pending BOEM study development and contract procurement







Ocean Exploration and Research