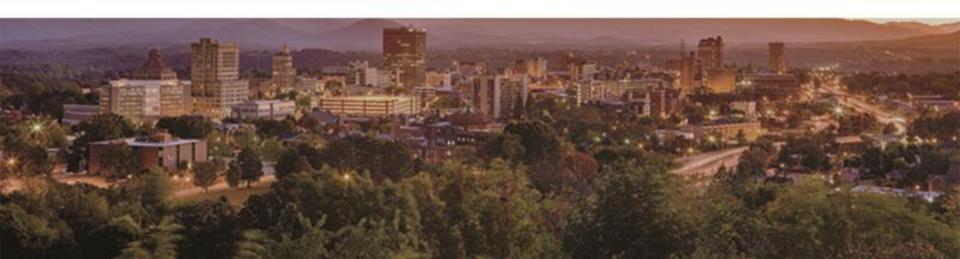


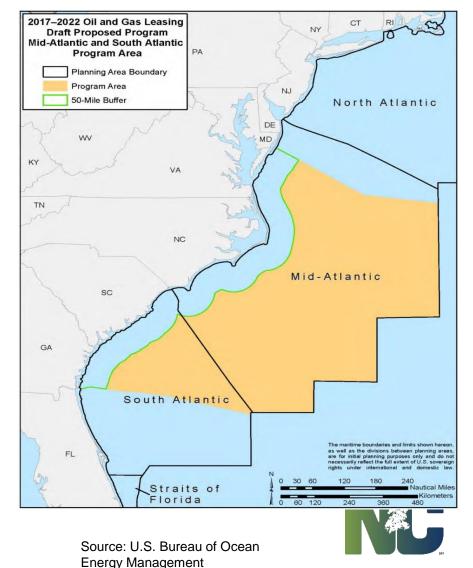


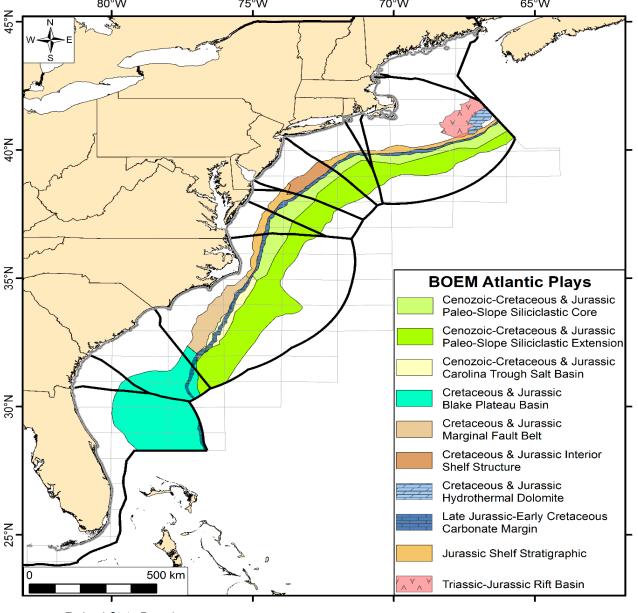
Mid-Atlantic Energy January 5, 2016 Jenny Kelvington, NC DEQ



Offshore Oil and Gas

- Draft Proposed Five Year Plan
- 50 mile coastal buffer.
- Area will likely be reduced.
- One Atlantic lease sale in 2021.
- Next Step: Draft 2017-2022 Plan and Draft Environmental Impact Statement – March/April 2016.







Mid-Atlantic Mean Estimates of Undiscovered, Technically Recoverable Oil & Gas

2.42 billion barrels of oil

23.38 trillion cubic feet of gas

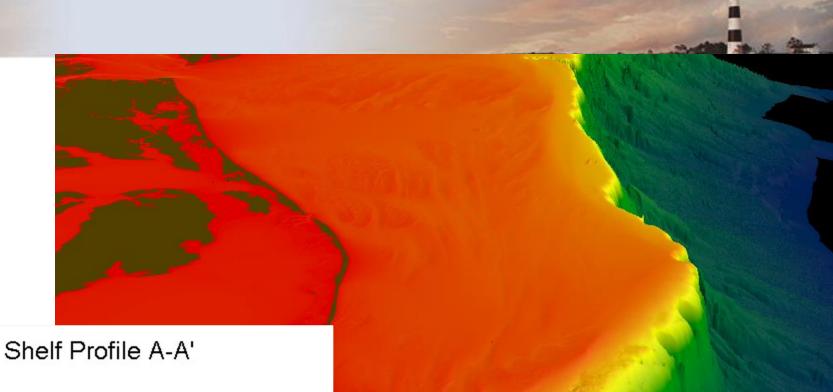
NC

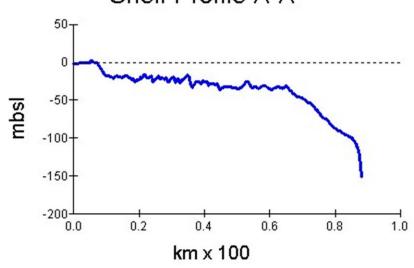
— Federal-State Boundary

 State Boundary OCS Extension & 200 Nautical Mile Line/International Boundary

Outer Continental Shelf (OCS) Protractions

Source: U.S. Bureau of Ocean Energy Management

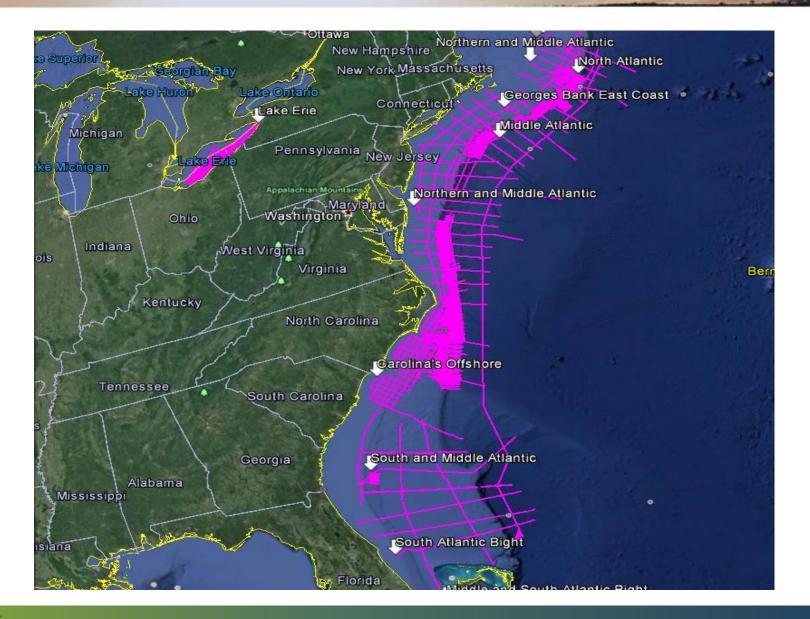




Source: November 18, 2015 Energy Policy Council Meeting Presentation by, Greg "rudi" Rudolph Carteret County Shore Protection Office

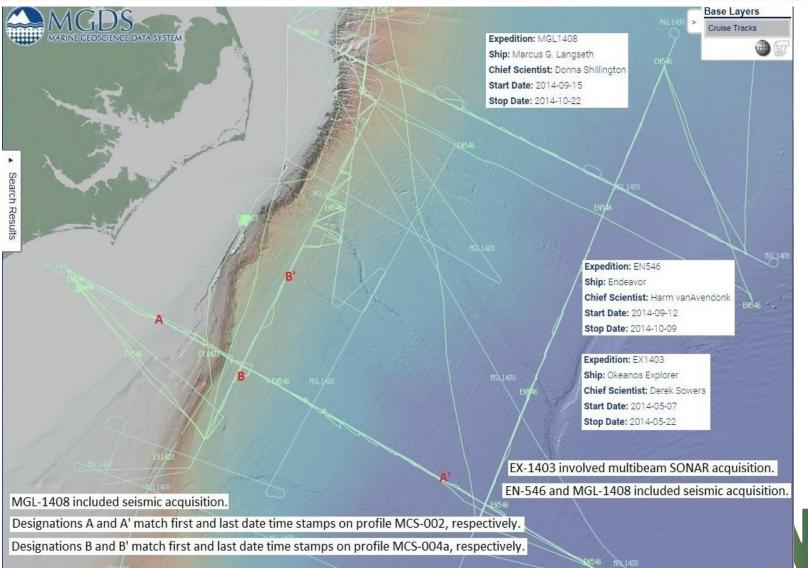


1975 to 1982 Seismic Aquisitions





NSF Seismic Acquisition –Sept – Oct 2014





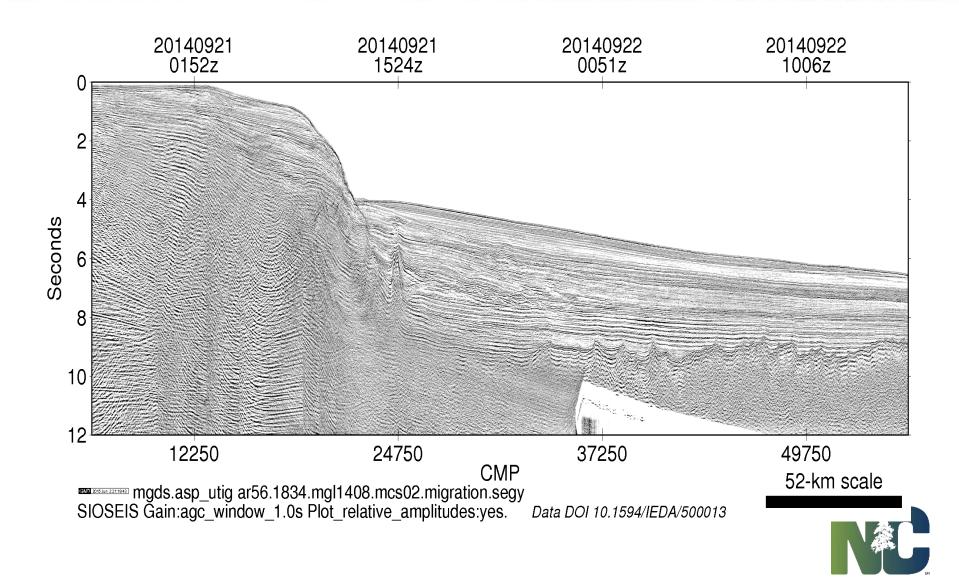
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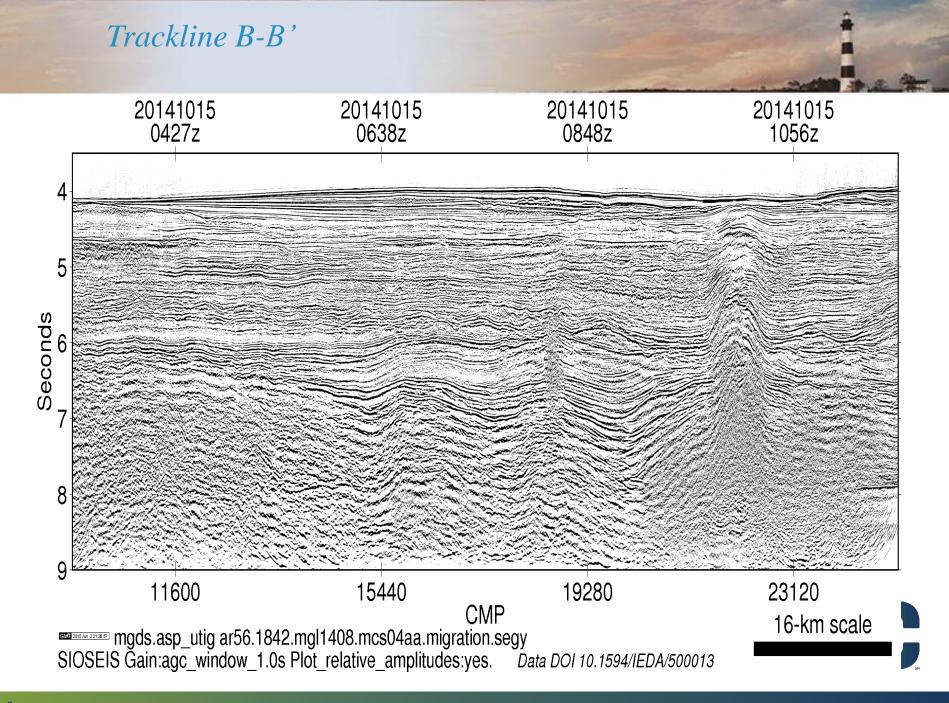
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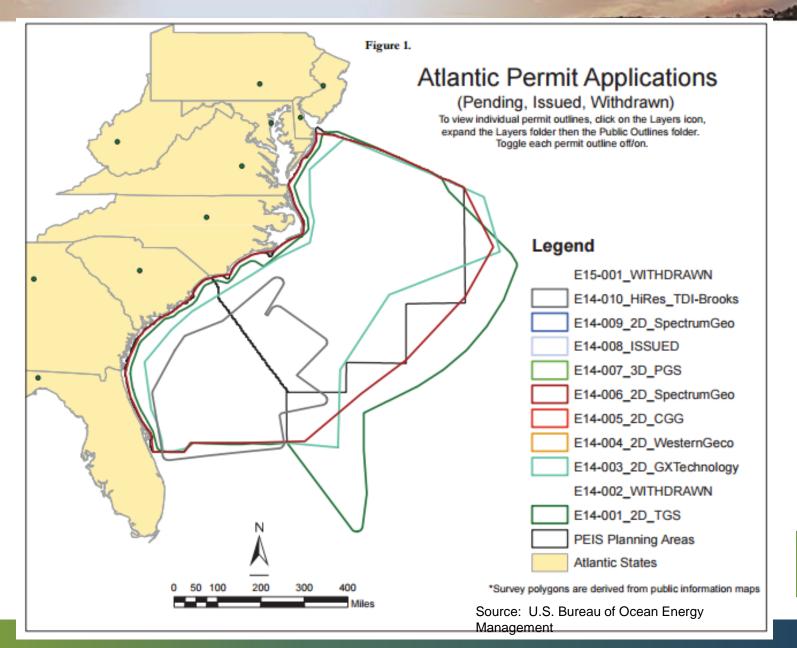
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Trackline A-A'



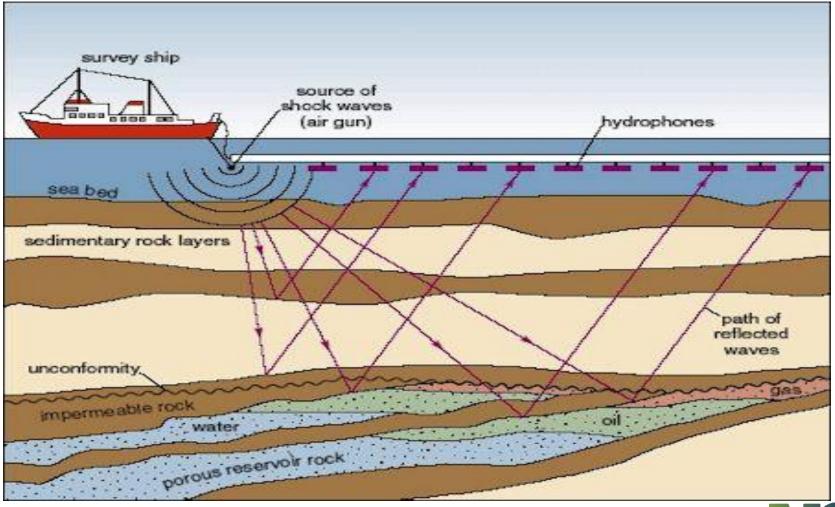


Mid-Atlantic Geological & Geophysical Permitting





Seismic Surveys





Source: Coastal Review Online

Survey Mitigation Measures





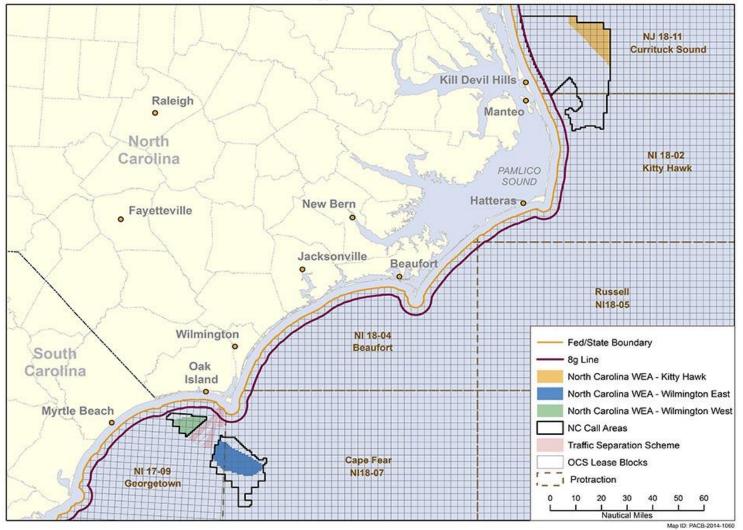


- Passive Acoustic Monitoring
- Two Protective Species Observers
- Time-Area Restrictions
- Ramp-up, delays, & start-up procedures
- Time area restrictions
- Sound restrictions



Offshore Wind Energy Areas

Wind Energy Areas (WEAs) - North Carolina





Proposed Offshore Wind Energy Areas

South Carolina Call Areas North Carolina Marion Fed/State Boundary Little River 8g Line Horry 0 THE REAL PROPERTY AND INCOME. ur atur atus atus South Carolina Call Areas North O Myrtle Beach NC Wind Energy Areas Myrtle Beach South Potential TSS Extension Carolina TSS Surbide OCS Blocks Beach O Protraction Murrelso Inlet 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 Pawleys Island O Nautical Miles Georgetown Georgetown 31 Grand Strand Call Area ARTS 487 Berkeley TRUE TRUE TRUE TRUE 80TT 8012 8012 Charleston Cape Romain Call Area 1928 8028 80281 Charleston Winyah Call Area state a rate Charleston نوا عمن Call Area sats ante ante ante ante SEC wand other contributors



Map ID: PACE-2015-1006

Questions?



