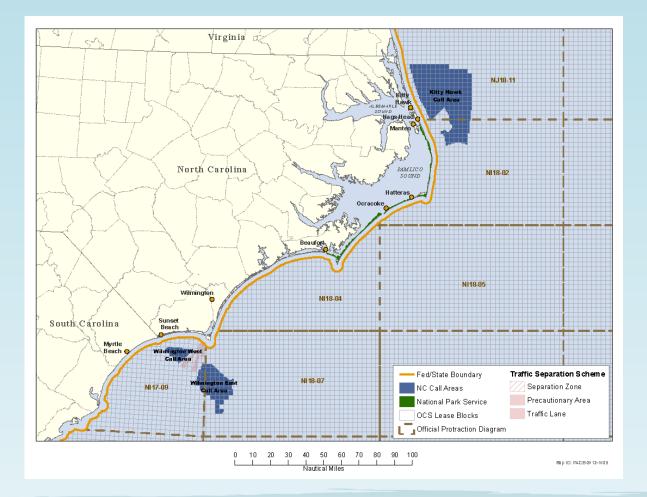
North Carolina Outer Continental Shelf Planning for Offshore Wind

BUREAU OF OCEAN ENERGY MANAGEMENT

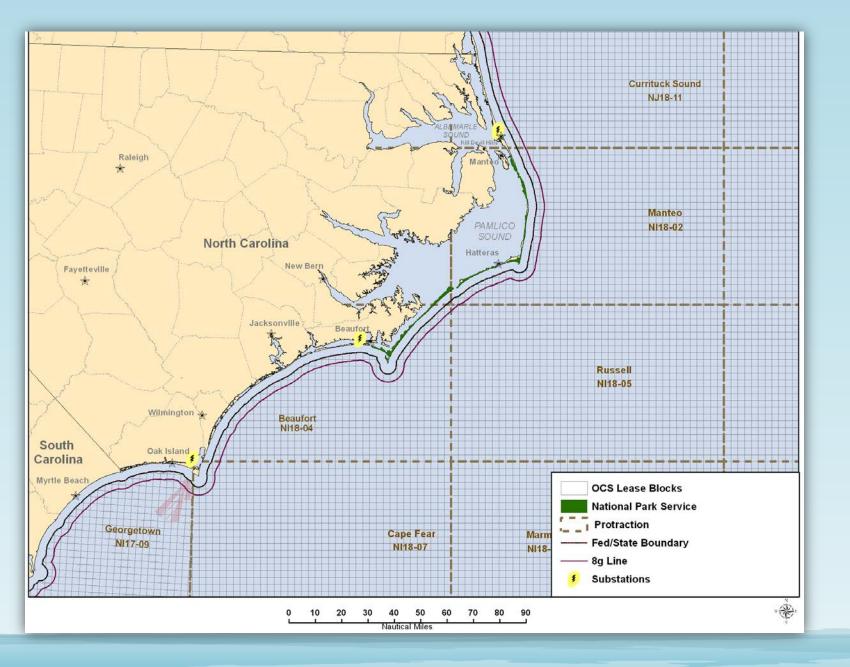
PUBLIC INFORMATION MEETING

JANUARY 9, 2013

Development of the North Carolina Call Areas







_									
	A	В	с	D	A	В	С	D	
	E	F 66	G 20	Н	E	F 66	G 20	н	
	I		хэ К	L	I		к	L	
	М	Ν	0	Ρ	М	Ν	0	Ρ	
	A	в	с	D	A	В	С	D	
	Е	F	G	н	Е	F 66	G	н	
	I		79 к	L	I		K	L	
	М	Ν	0	Ρ	М	Ν	0	Ρ	

1 OCS Block

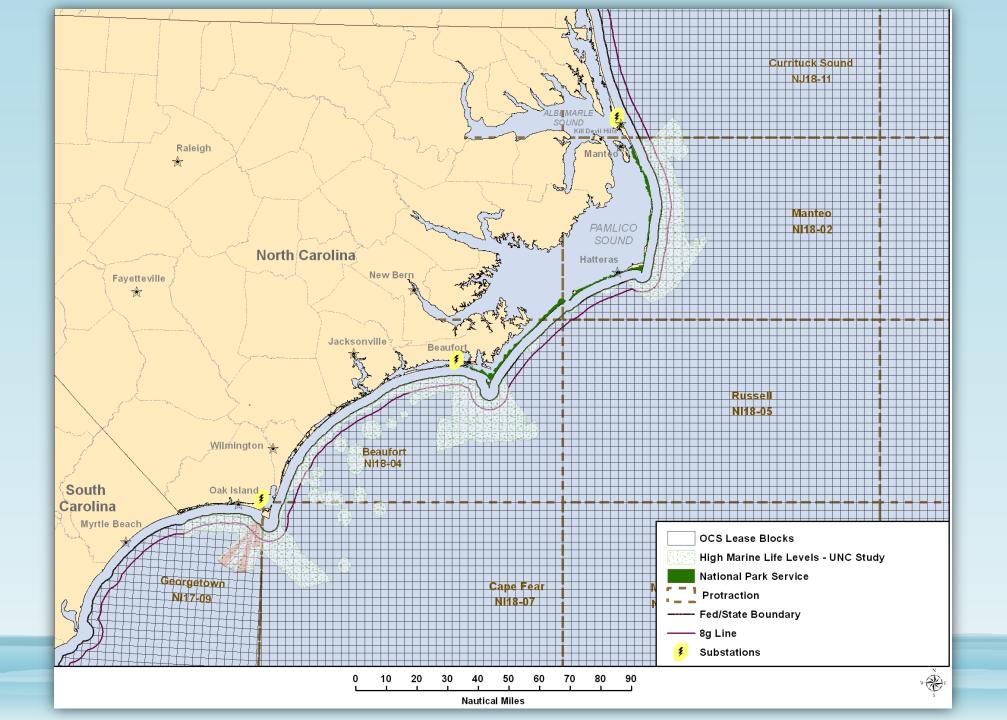
- 4800 meters x 4800 meters
- 3204 hectares

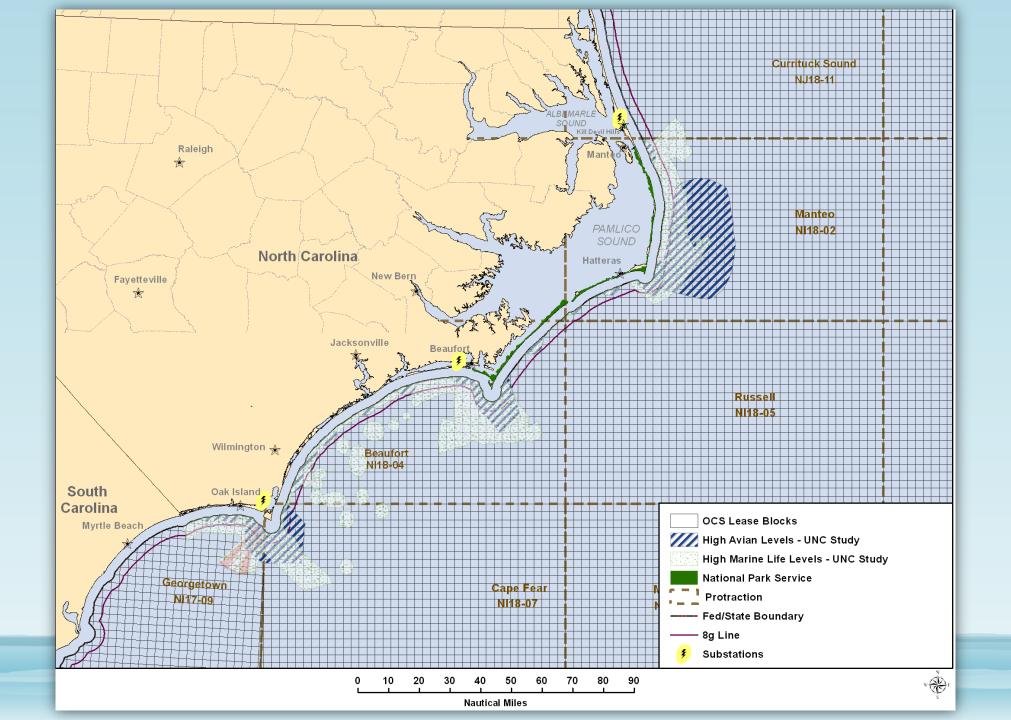
1 Aliquot = 1/16 of an OCS Block

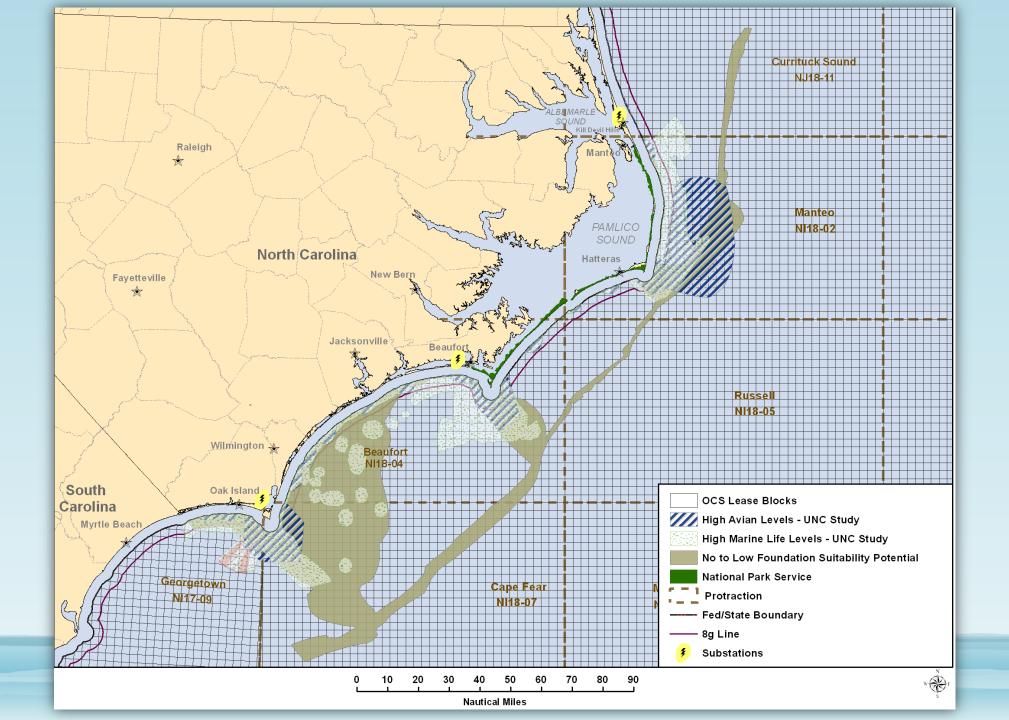
- 1200 meters x 1200 meters
- 144 hectares

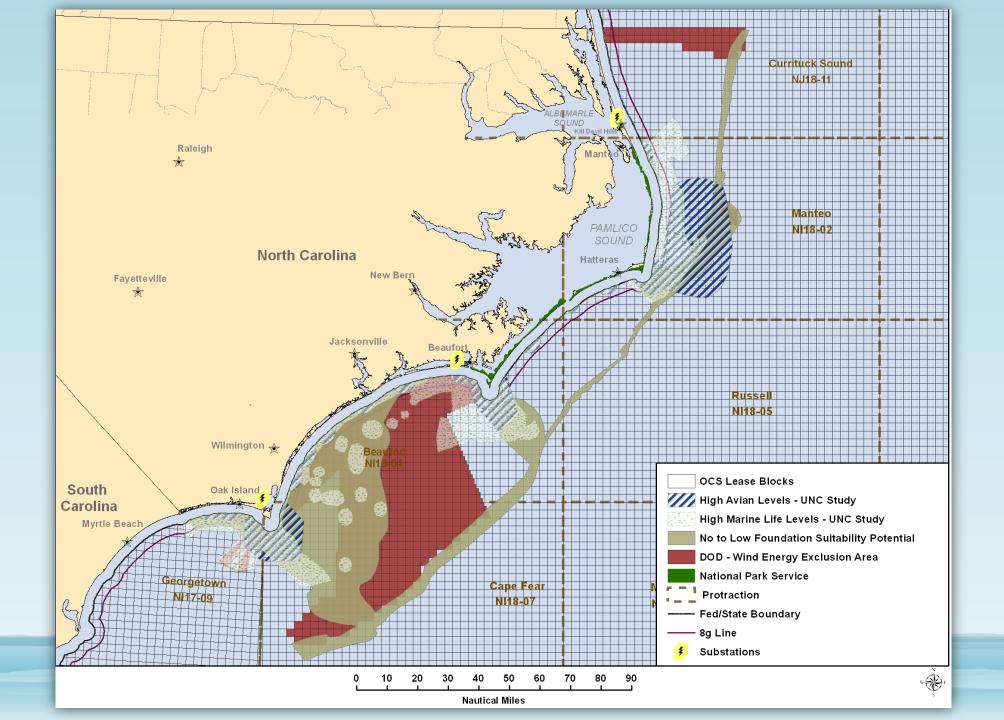
Federal/State Boundary (SLA)

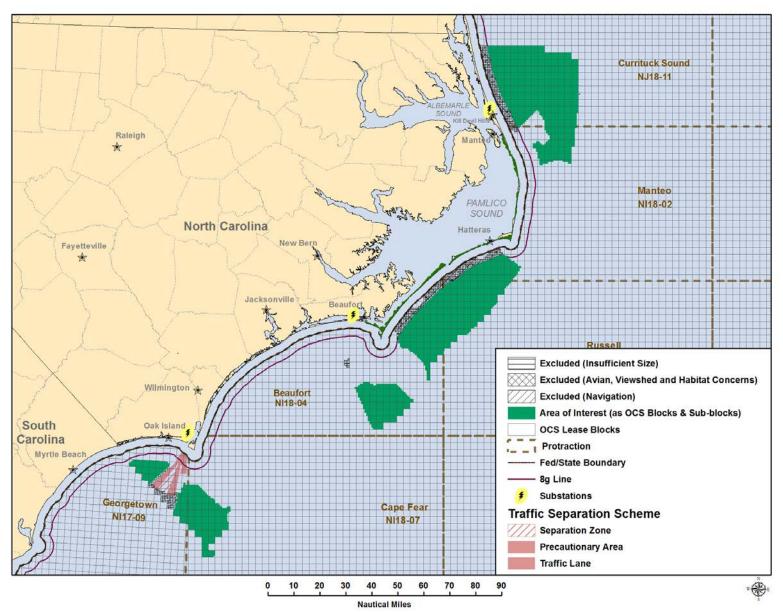
• 3 statue miles from the coastline

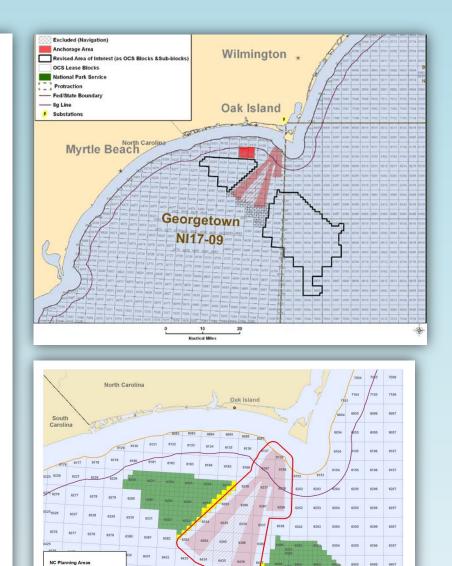












10

15

20

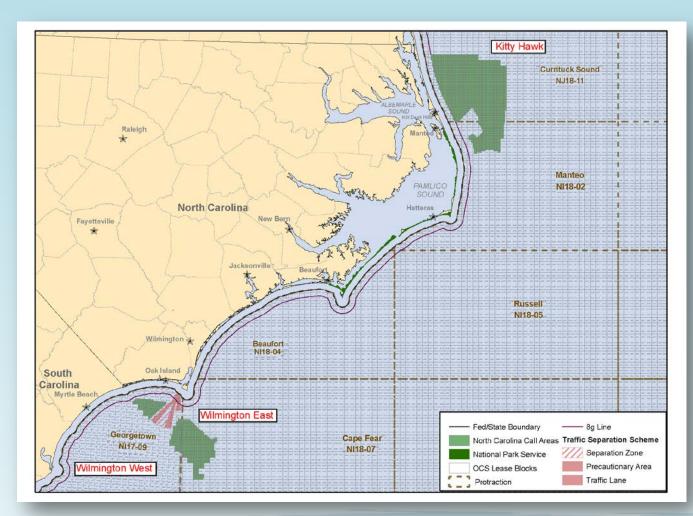
Traffic Separation Scheme

Outside of 1 nmi TSS Buffe

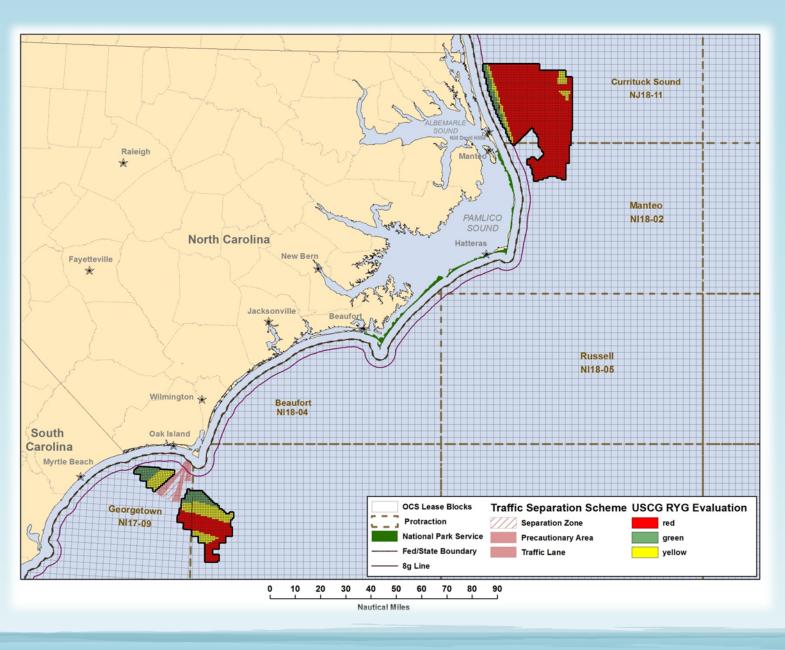
1 nmi Buffer of TSS Fed/State Boundary

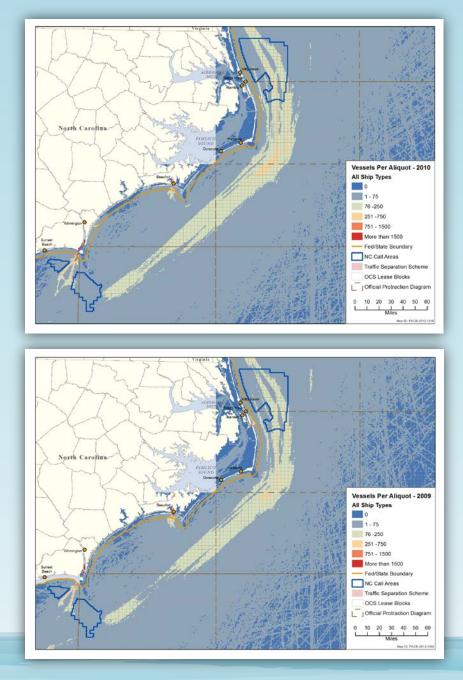
------ 8g Line

North Carolina Call Areas



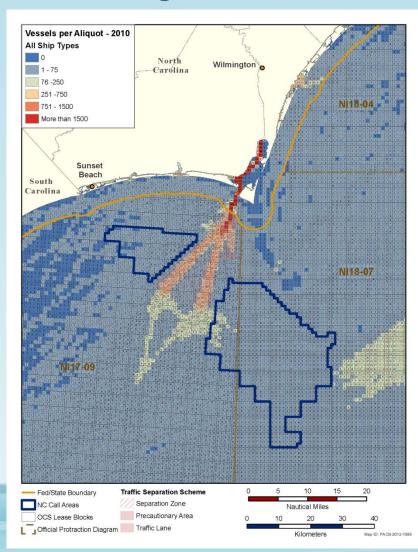
Area	Size (hectares)	Number of Blocks	Distance to Shore (nmi)	
Wilmington - East	111,984 327 nmi	51 Full 15 Partial	7	
Wilmington - West	26,784 78 nmi	6 Full 8 Partial	13	
Kitty Hawk	355,284 1,036 nmi	138 Full 36 Partial	6	
All Areas Combined	494,016 1,441 nmi	195 Full 60 Partial	N/A	



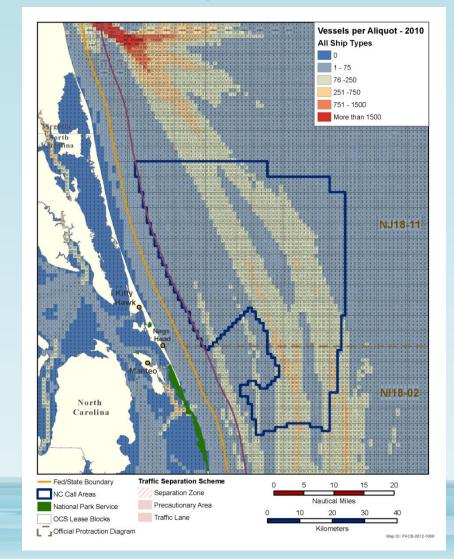


Vessel Traffic Concerns

Wilmington: West & East



Kitty Hawk



Maritime Working Group (MWG)

- Combing Quantitative Analysis and Applied Knowledge to Find Practical Solutions
- Participants include: USCG, Port Authorities, Department of Defense, Various Maritime Organizations, Pilots, Captains, etc., with knowledge of the Areas in question
- First Meeting Held in Norfolk, VA on December 5
- Focusing on:
 - Deepwater Vessels (Tankers and Cargo Vessels)
 - Towing and Tug Vessels

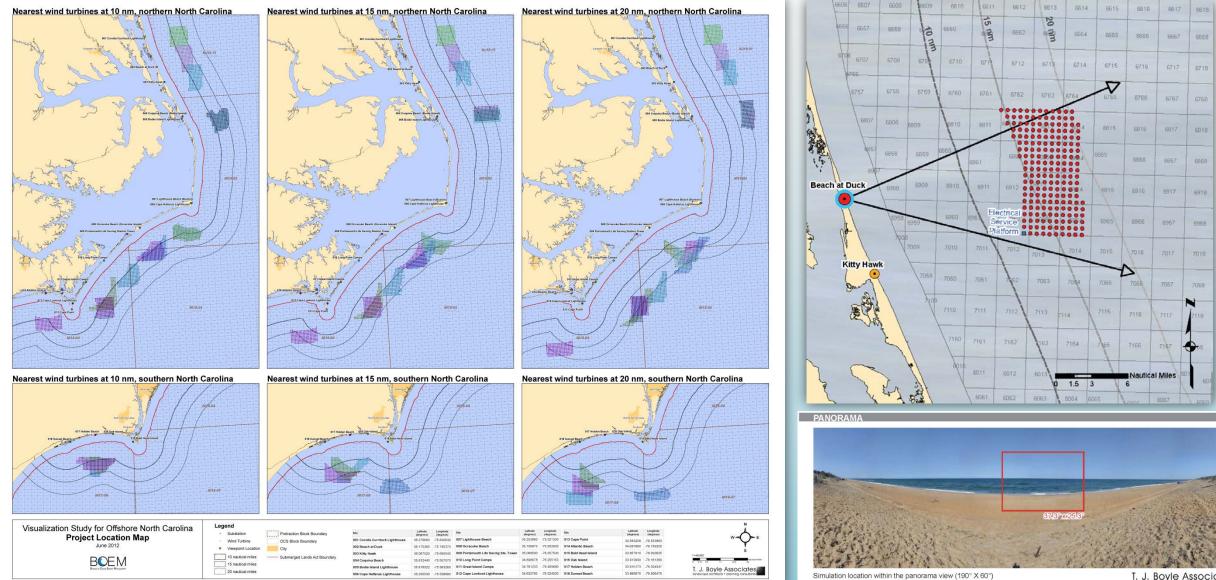




North Carolina Visualization Study to Assist in Assessing Visual Impacts

- Conducted in Partnership with the National Park Service
- Contracted to Mangi Environmental Group and its subcontractors T.J. Boyle Associates and LPES, Inc.
- Create and develop photo documentation, photomontages and videos to provide an accurate representation of the appearance of offshore wind facilities from various locations under various lighting conditions.
- 18 Different Locations
- 4 Lighting Conditions
- 3 Distances (10 nmi, 15nmi and 20nmi)
- Two Turbine Models (3.6 M and 7MW)

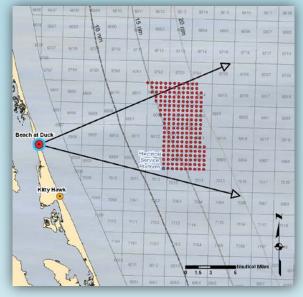
Visual Simulation Locations & Configurations



Simulation location within the panorama view (190° X 60°) from the Beach at Duck site

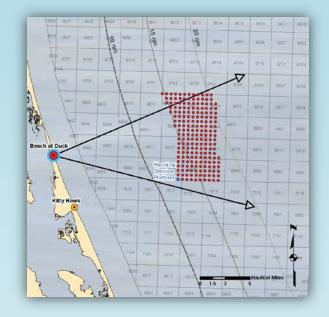
T. J. Boyle Associates





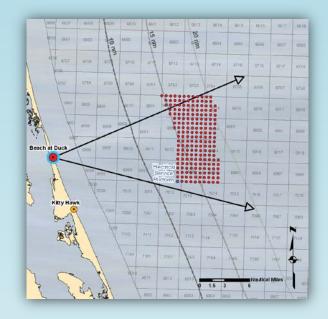
Late Afternoon Siemens SWT 3.6-107 10 nmi from Shore 200 WTGs





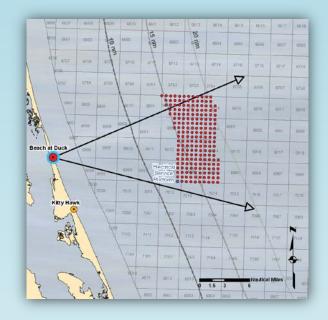
Late Afternoon Siemens SWT 3.6-107 20 nmi from Shore 200 WTGs





Late Afternoon Vestas V164-7.0 MW 10 nmi from Shore 200 WTGs





Late Afternoon Vestas V164-7.0 MW 20 nmi from Shore 200 WTGs

Call Comments Due January 28

- The Call is available online at:
 - <u>http://boem.gov/Renewable-Energy-Program/State-Activities/North-Carolina.aspx</u>
- You may submit comments to <u>www.regulations.gov</u>. In the entry entitled "Enter Keyword or ID," enter "BOEM 2012-0088". Then click search and follow the instructions.
- You may send comments by regular mail or hand deliver to:

Program Manger
Office of Offshore Renewable Energy Programs
Bureau of Ocean Energy Management
381 Elden Street, HM 1328
Herndon, Virginia 20170

Thank You!