

**Workshop on Best Management Practices for
Atlantic Offshore Wind Facilities**

Day 3



& Marine Protected Species

March 7-9, 2017

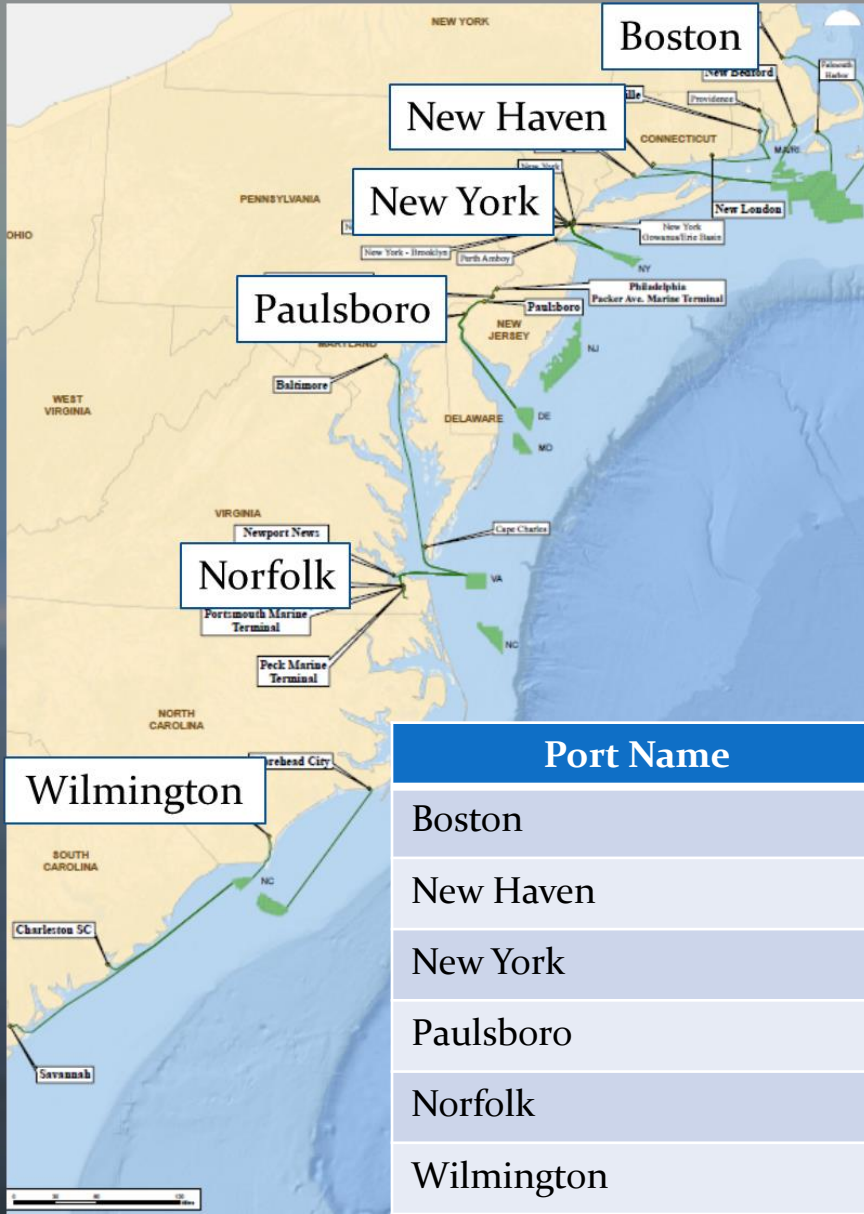
Vessel Traffic



Current vessel-strike mitigation measures

- Vigilant watch during maintenance trips, but NMFS-approved Protected Species Observers on operational vessels
- All project-related vessels: Vessel-strike avoidance measures
 - Species-specific separation distances and close encounter protocols
- Speed restrictions
 - Vessels 65 ft or larger restricted to ≤ 10 kts
 - Follow Seasonal Management Area time frames
 - Includes the project area, port to site and back
 - All vessels in a Dynamic Management Area ≤ 10 kts









Vessel Traffic

- Atlantic ports/terminal profiles found in Port Study that could service offshore wind activities
- BOEM EAs estimate 350-1,000 vessel trips for a lease over a 5-year period for site assessment and characterization






Representative Ports and Distance to WEA

Port Name	WEA	Distance to WEA (mi)
Boston	MASS	146
New Haven	MASS/RI SOUTH	86
New York	NY	34
Paulsboro	DE	101
Norfolk	NC	57
Wilmington	NC	35

Offshore Wind Service Vessels

Vessel	Overall Length	Overall Beam Width	Draft	Speed
	16.2 m (53 ft)	6.4 m	1.0 m	22-24 kt
	19.1 m (63 ft)	17.0 m	1.2 m	21-23 kt
	20.9 m (69 ft)	8.0 m	1.2 m	21-23 kt
	24.7 m (81 ft)	8.0 m	1.2 m	23-26 kt

Survey and Construction Vessels

	Vessel Type	Length	Beam Width	Draft	Speed
	Tugboat	26.0 m (85 ft)	7.9 m	2.7 m	10 kt
	Geotechnical Surveyor	61.7 m (202 ft)	11.4 m	3.6	10-12.5 kt
	Cable Layer	82.3 m (270 ft)	18.3 m	3.6 m	12 kt
	HRG Surveyor	58.8. m (193 ft)	12.5 m	–	4-5 kt (survey) 10-12 kt
	Jack up	60.0 m (197 ft)	38.0 m	3.9 m	7.5 kt



Vessel Traffic



OBJECTIVES

- Understand the overall contribution of project-related vessels to existing levels of vessel traffic
- Understand the overall risk project-related vessels pose to protected species
- Identify mitigations for potential impacts of project-related vessels to protected species
- Understand how to assess effectiveness of mitigation techniques
- Assess usefulness, data sharing and accessibility of monitoring data

