

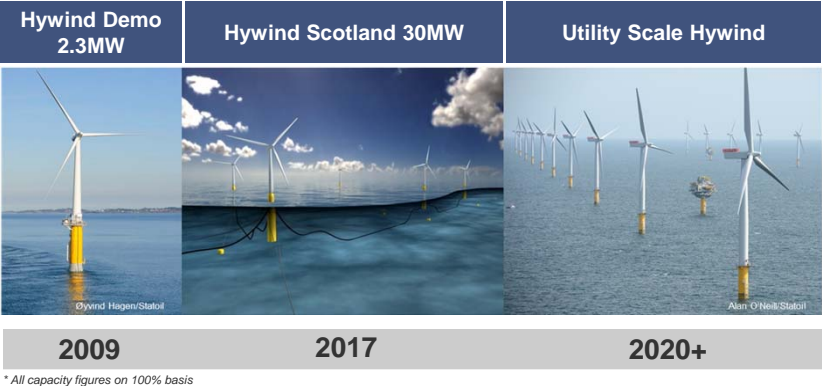


Empire Wind Development Status

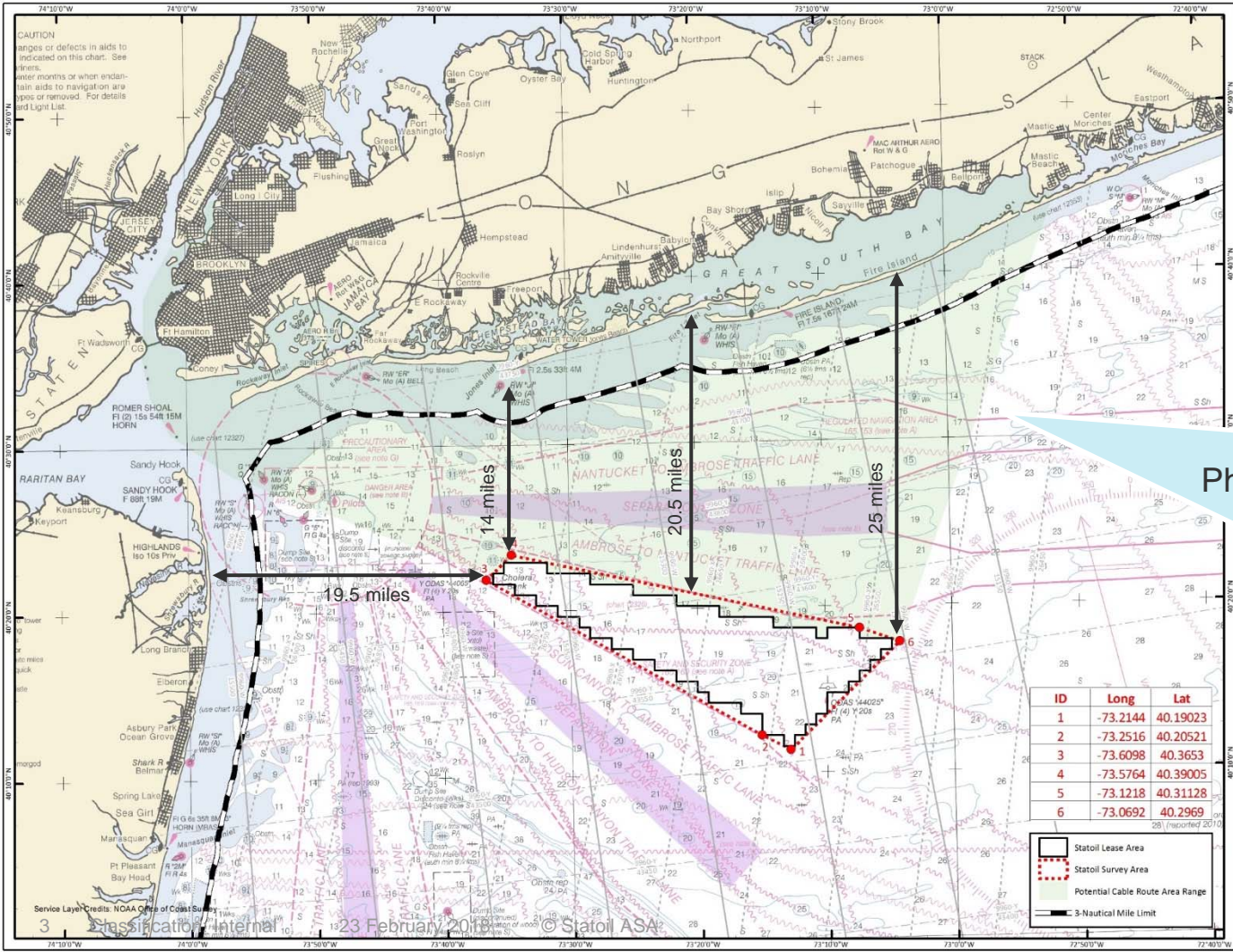
Intergovernmental Renewable Energy Task Force for the New York Bight

May 9, 2018



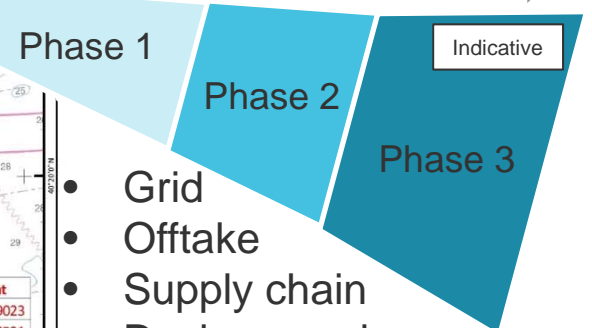


* All capacity figures on 100% basis



Site Key Data	
Area	79,350 acres (124 sqm)
Water Depth	65-130 ft
Distance to shore	From 14 miles
Capacity	Up to 1.8GW

Phased development?



- Grid
- Offtake
- Supply chain
- Design envelope
- Seabed conditions
- Enviro & social impacts

ID	Long	Lat
1	-73.2144	40.19023
2	-73.2516	40.20521
3	-73.6098	40.3653
4	-73.5764	40.39005
5	-73.1218	40.31128
6	-73.0692	40.2969

Statoil Lease Area
 Statoil Survey Area
 Potential Cable Route Area Range
 3-Nautical Mile Limit



Development focus

Environmental
& Use Conflicts

Technical
feasibility &
supply
chain

Economics
and selling
power

- Safe to construct and operate
- Safe for other users
- Lowest environmental, social and use conflicts
- Lowest technical challenges
- Acceptable wind, economics and cost
- Grid connection and power offtake opportunities

Preliminary

Wind and Met Buoy Deployment (SAP)



Wind Farm Development & COP



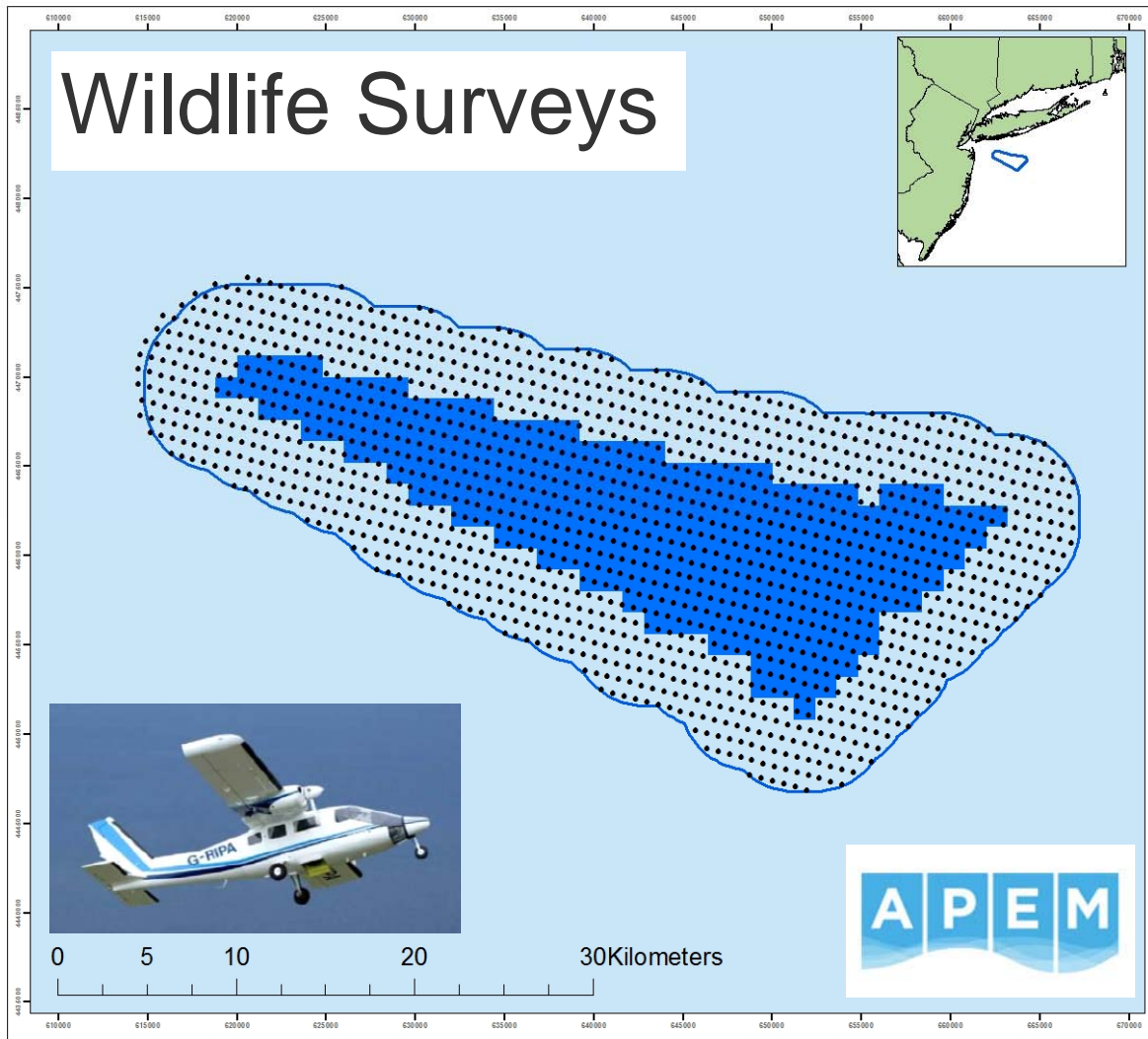
Stakeholder Consultation



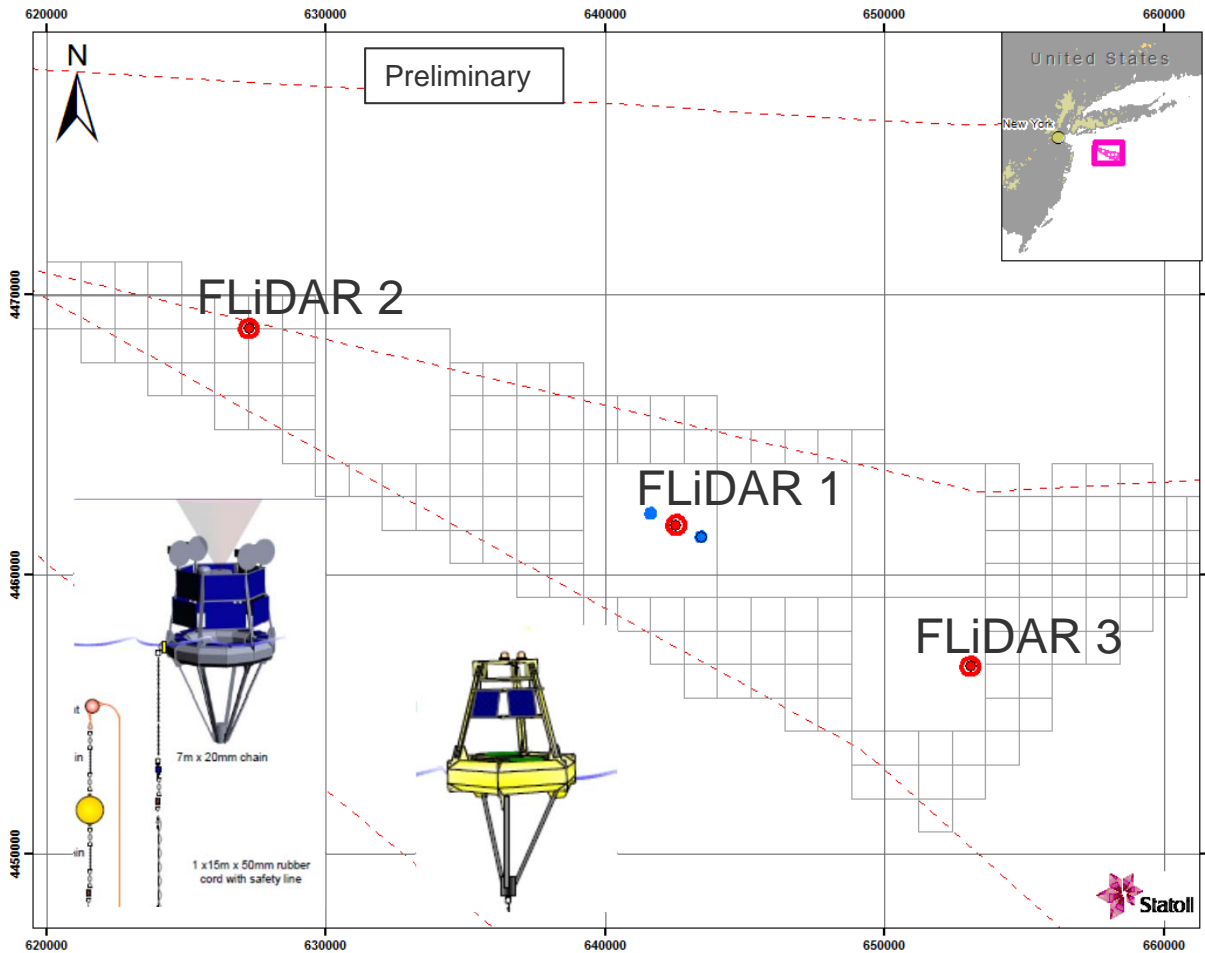
Physical Surveys 2018



- Multibeam depth sounder
- Side scan sonar
- Magnetometer
- Shallow / Medium penetration sub bottom profilers
- Sediment samples
- Benthic fauna samples
- Underwater digital video camera
- Preliminary geotechnical samples

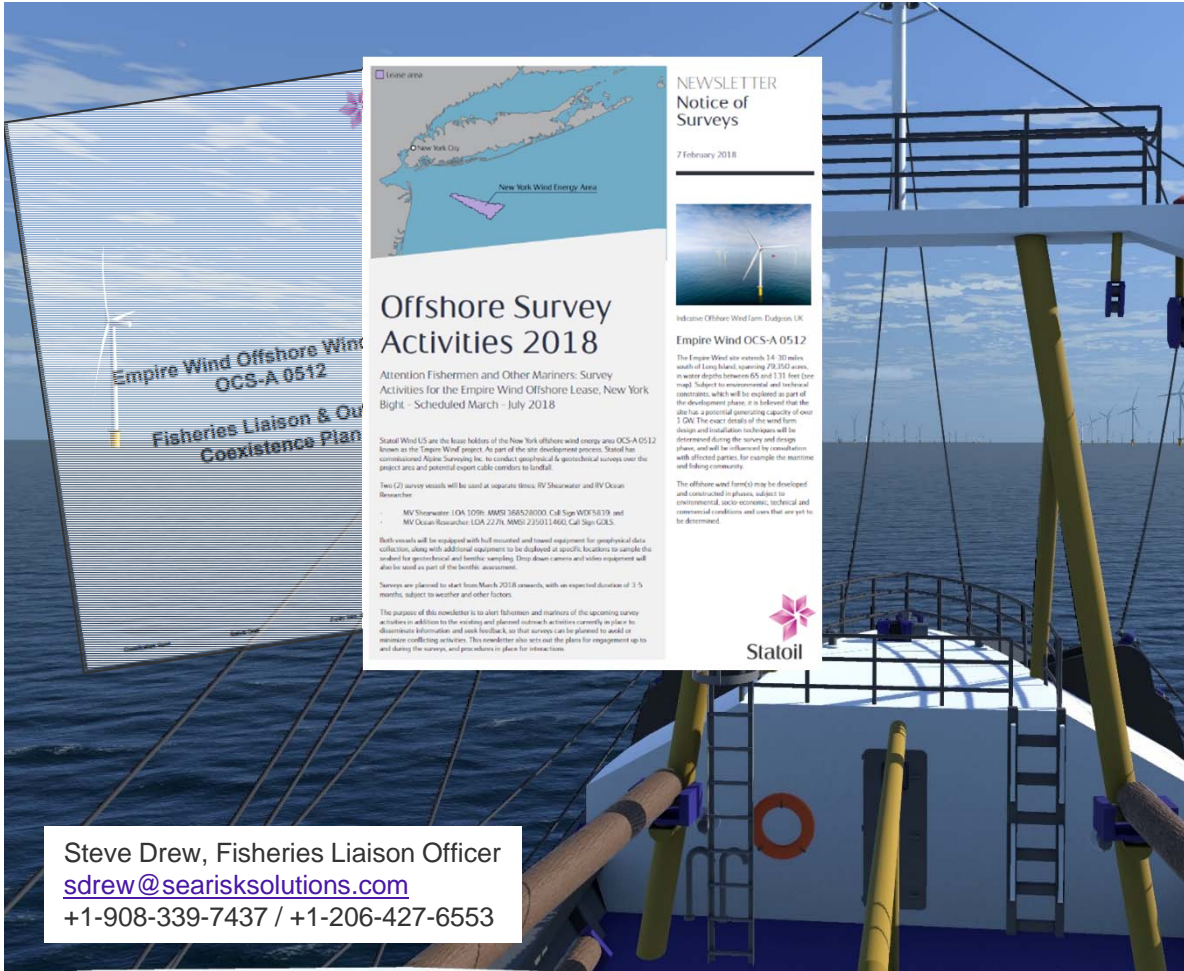


- Supplementing NYSERDA's Master Plan surveys
- 20% of the Lease Area and 2 mile buffer will be imaged,
- 12 x monthly surveys, started November 2017
- Approx. 1/2" pixel resolution at sea surface
- Birds, marine mammals, turtles & large fish
- Data publicly available online




Wind Resource & Metocean

- Wind data required for project design and economics
- 2 Floating Light Detection and Range buoys (FLiDAR) – wind profile to 600ft
- 1 wave and met buoy
- 1 current profile and water properties oceanographic mooring
- Deployment fall 2018
- A Site Assessment Plan (SAP) will be submitted to BOEM that describes the deployment activity and demonstrates there will be no significant impact.
- Potential for other underwater sensors



NEWSLETTER
Notice of Surveys
 7 February 2018



Offshore Survey Activities 2018

Attention Fishermen and Other Mariners: Survey Activities for the Empire Wind Offshore Lease: New York Bight - Scheduled March - July 2018

Statoil US are the lease holders of the New York offshore wind energy area OCS-A 0512 known as the Empire Wind project. As part of the site development process, Statoil has commissioned Aquatic Surveys, Inc. to conduct geological & geophysical surveys over the project area and potential export cable corridors to landfall.

Two (2) survey vessels will be used at separate times, R/V Shearwater and R/V Ocean Researcher.

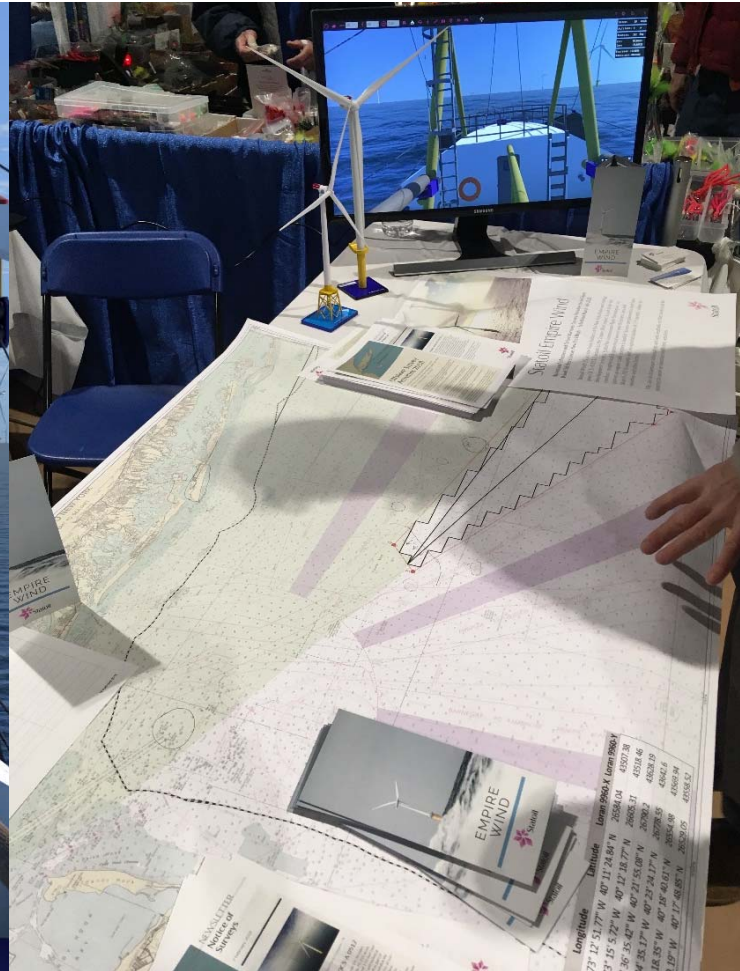
- R/V Shearwater: LOA 109M, MMSI 368538000, Call Sign W5N179 and
- R/V Ocean Researcher: LOA 22.7M, MMSI 231011460, Call Sign G2LS

Both vessels will be equipped with hull mounted and towed equipment for geophysical data collection, along with additional equipment to be deployed at specific locations to sample the seabed for geotechnical and benthic sampling. Drop-down cameras and video equipment will also be used as part of the benthic assessment.

Surveys are planned to start from March 2018 onwards, with an expected duration of 3-5 months, subject to weather and other factors.

The purpose of this newsletter is to alert fishermen and mariners of the upcoming survey activities in addition to the existing planned notice to fishermen currently in place to disseminate information and seek feedback, so that surveys can be planned to avoid or minimize conflicting activities. This newsletter also sets out the plans for engagement up to and during the survey, and provides a place for fishermen.

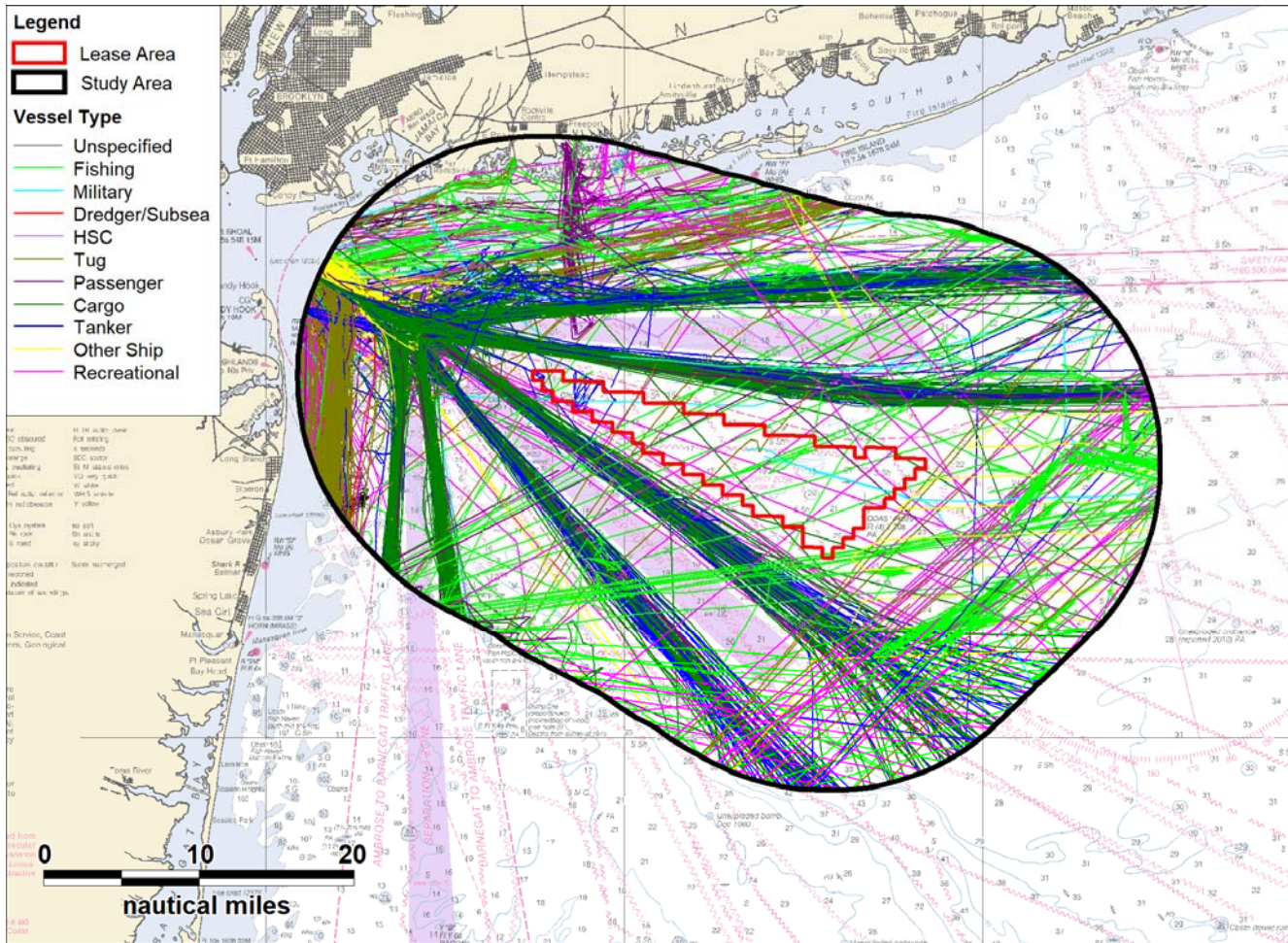
Statoil



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Maritime Assessments



Assessment Activity

Current

- Birds & bats
- Marine Mammals & Sea Turtles
- Fisheries (including benthic habitat)
- Marine Transportation & Hazards to Navigation
- Marine Archaeology
- Geology & Sediment Quality
- Onshore grid & export cable routes
- Supply chain and ports & harbors

Planned

- Geotechnical surveys
- Wind and metocean measurements
- Wetlands, onshore ecology
- Onshore Archaeology & Historic Properties
- Noise (underwater / on-land)
- Aviation
- Onshore routing social impact studies
- Marine mammal mitigation systems



Before we can build, we need a contract to sell our electricity



Statoil. The Power of Possible

Martin Goff

Environment & Permitting

Julia Bovey

External Affairs

www.statoil.com

www.empirewind.com



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