NGO Perspectives on Conservation Priorities for Protected Species



Catherine Bowes, National Wildlife Federation Michael Jasny, Natural Resources Defense Council Howard C. Rosenbaum, Wildlife Conservation Society

BMP Workshop for Atlantic Offshore Wind Facilities March 7th, 2017

Environmental concerns across a range of species and habitats

- Species concerns
 - Vessel collisions
 - Noise from pile driving
 - Short and potential long-term displacement from important habitat
 - Cumulative impacts

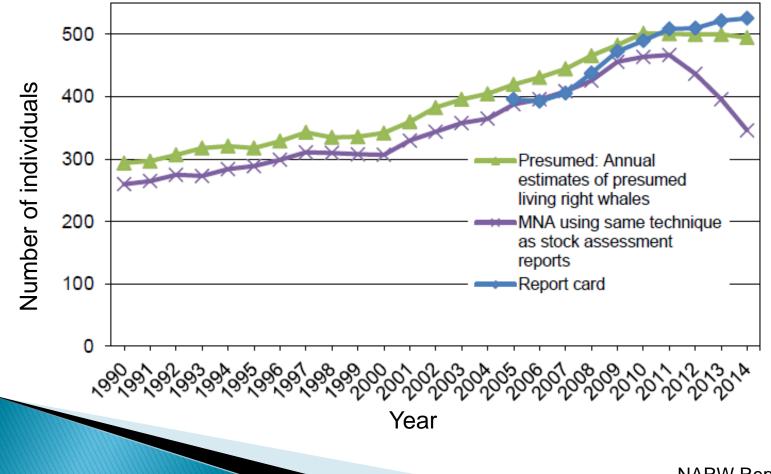
Habitat concerns

- Benthic habitat loss and/or modification
- Changes in turbulence and structure of the water column (prey base?)



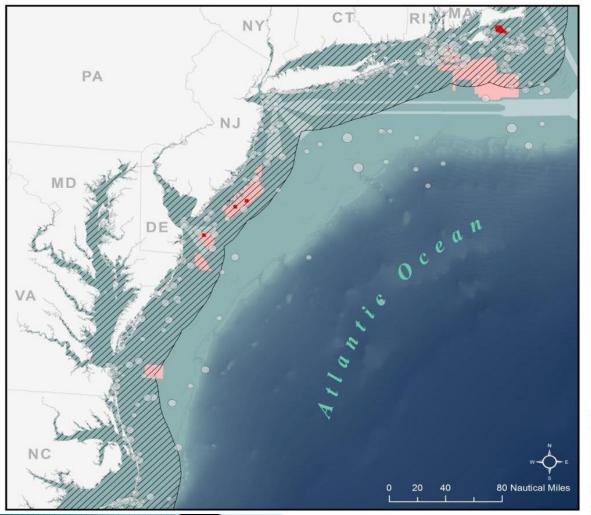
Working collaboratively to meet these challenges: Developing NARW mitigation measures

NARW are highly endangered and recent data indicates they are in decline:



NARW Report Card 2015

Working collaboratively to meet these challenges: **Developing NARW mitigation measures**



The NARW's limited range directly overlaps with a number of WEAs:

Northeast seasonal foraging

Mid-Atlantic migration

Southeast calving habitat





*North Atlantic right whale route

Wind Planning Areas

Shipping Lanes

Right whales sighted

"The North Atlantic right whale route for the mid-Atlantic was created by measuring the distance of whale sightings to shore during the time of migration through the region (Nov-Apr). An area covering one standard deviation from the mean distance was created to encompass 95% of whale sightings

Data sources: Right Whale Consortium Database, 1762-2010 Projection: NAD 83 UTM 19 N

Map: New England Aquarium

Working collaboratively to meet these challenges: Developing NARW mitigation measures

 Goal: develop mitigation measures to protect the North Atlantic right whale while facilitating activities related to offshore wind energy development

• Strategies:

 Most effective mitigation for NARWs is to separate development activity from animals
 Special attention to moms and calves

Scope:

-First phase of development: site characterization and assessment (e.g. some mid-Atl, RI/MA WEAs)
-Second phase of development: construction

(e.g. Block Island)



Mutual benefits from the agreements for protected species and industry

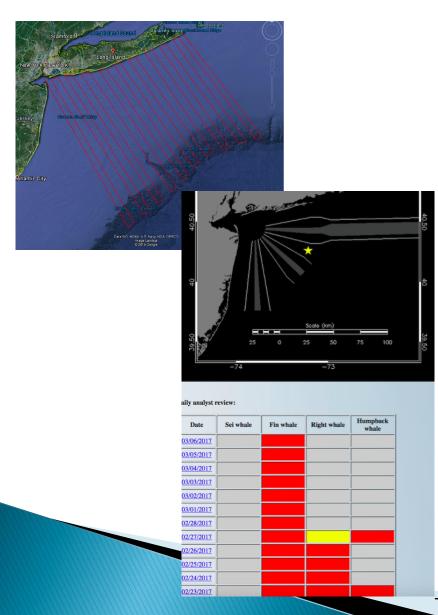


Reduces co-occurrence of protected species with development activities

Provides flexibility to developers

Proactive step to remove a roadblock to development early on

Important considerations and solutions



Data gaps in species distribution

- Consideration & integration of multiple data sources (e.g. BOEM/MA CEC data, potential for NY)
- Recommendations on environmental baselines (e.g. Nowacek et al. 2016)
- Data & BMPs needed for other species, particularly resident populations

Little data on the impacts of OW on marine species

- Precautionary operating conditions based on best available science
- Adaptive management, with monitoring & data sharing
- New technologies to reduce noise/impacts at the source

Top: DEC proposed aerial tracklines; Bottom: WCS-WHOI JV in New York

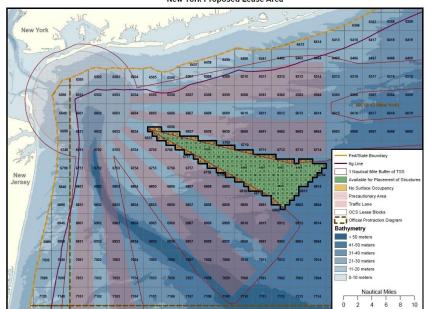
Important considerations and solutions

Cumulative impacts require in-depth evaluation to inform alternatives

- Interacting stressors (e.g. habitat displacement into shipping lanes)
- Across multiple WEAs at varying stages of the development pipeline

Scope of environmental assessments need to analyze long-term impacts

- Population consequences (e.g. longterm impacts of stress on health and fitness)
- Ecosystem-level impacts (e.g. larval dispersal, habitat modification, etc.)







Thank you!



bowes@nwf.org mjasny@nrdc.org hrosenbaum@wcs.org