



## Case Study:

Protection of Marine Mammals during Construction  
and Operation of Offshore Energy Infrastructure:  
Oil and Gas/Wind

[www.thayermahan.com](http://www.thayermahan.com) | 860-785-9994

# 1: Background



The harvesting of offshore energy is critical to the nation's energy strategy but must be balanced against the sensitive marine mammals that occupy the ocean ecosystem.

The United States is investing heavily in its offshore oceans for the harvesting of wind and fossil fuel energy. Proposed wind farm development from North Carolina to Maine (and soon to the West Coast), coupled with existing and ongoing oil and gas development in the Gulf of Mexico, is making the continental shelves crowded with activity. Developing a sustainable, ecologically balanced approach to energy harvesting and development is a core mission competency of ThayerMahan.

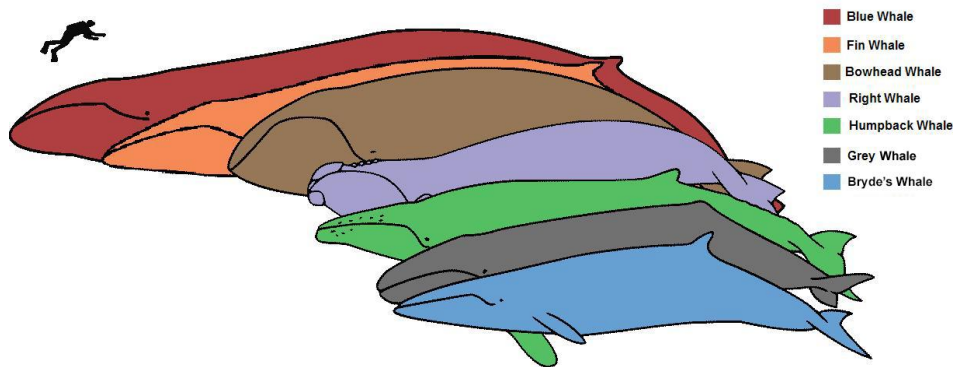


## 2. Impact



North Atlantic Right Whales (NARW) are nearly extinct and live primarily along the US East Coast.

There are less than 500 NARWs alive today and they feed primarily in waters designated for Wind Farm development along the US East Coast. Careful monitoring and sensitive development can guarantee that both Wind Farms and Right Whales can co-exist harmoniously.

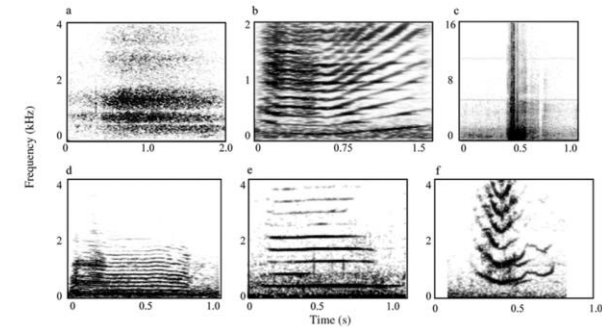


# 3. S&T Working Together



## Scientific knowledge and undersea acoustic technology are changing the game for marine mammals.

Marine mammals, like the NARW, make distinct sounds and vocalizations which can be detected, localized and tracked by ThayerMahan acoustic systems. Unique vocalizations – such as screams, upcalls, moans and “gunshots” – are distinguishable using sensitive sonar systems coupled with ThayerMahan’s proprietary acoustic digital signal processors. These technologies, tied with ThayerMahan’s decades of on-staff sonar and acoustics expertise, can make the ocean safe for mammals and man.



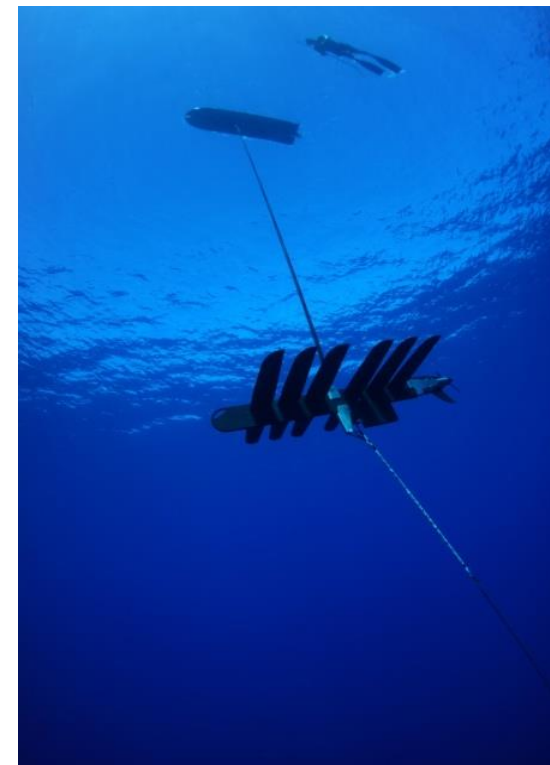


## 4. Leading the Way

Outpost and similarly configured autonomous sonar technologies can be deployed to better understand our marine mammal and energy development offshore ocean areas.

ThayerMahan provides customized acoustic surveillance systems capable of staying on station for long periods of time and ultimately detect, report, classify and monitor marine mammal activity in U.S. waters and across the world's oceans. Providing turn-key Search-As-A-Service data mining and intelligence curation services is just the first step in building a sustainable and ecologically sensitive offshore energy industry.

Learn more at [ThayerMahan.com/Systems/Outpost](https://www.thayermahan.com/Systems/Outpost).





# About ThayerMahan

ThayerMahan provides innovative systems and expertise, connected by a global data platform, to help to protect our nation and its vital interests.

We design, manufacture, and (when desired by our customers) operate systems to collect acoustic, electronic information on the world's oceans. These systems expand coverage for government and industry partners to protect borders, natural resources, and undersea infrastructure—and do so at extremely low cost compared traditional monitoring assets.

For more information, please visit us online or call:

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