Abundance and Distribution of Seabirds off Southeastern Massachusetts, 2011-2015

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Objectives

1.) Quantify distribution and abundance of seabirds south of Nantucket and Martha’s Vineyard, especially over BOEM Lease Blocks
2.) Quantify seasonality
3.) Identify persistent Hotspots of seabird abundance
Results

• Two Hotspots:
• 1.) Nantucket Shoals
• (Long-tailed Duck, White-winged Scoter, terns)
• 2.) Muskeget Channel
• (Loons, Black Scoters, Common Eiders, terns)
White-winged Scoter

Number of birds per km^2

Season:
- Spring: N=8
- Summer: N=9
- Fall: N=12
- Winter: N=9
Recommendations

1.) Ignore “flight height” data collected from boats or planes. Such data are always collected during fair (nonwindy) weather. All seabirds fly low under such conditions. Collisions with wind turbines likely to occur during >30kn winds, when ALL seabirds fly at “rotor height”.

2.) Include raw maps (nonmodeled) data of bird distribution in all reports. Arbitrarily collected ocean data (chosen for their availability) can often bias the actual distribution of seabirds.