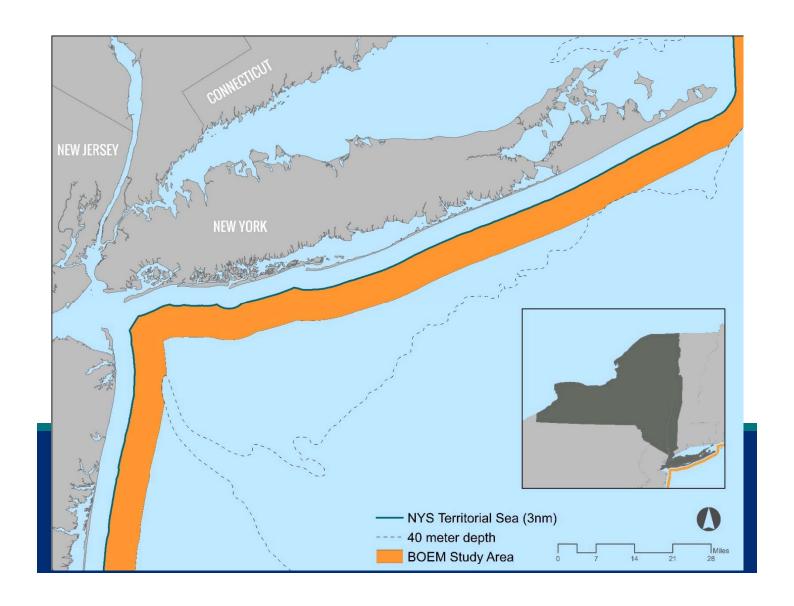


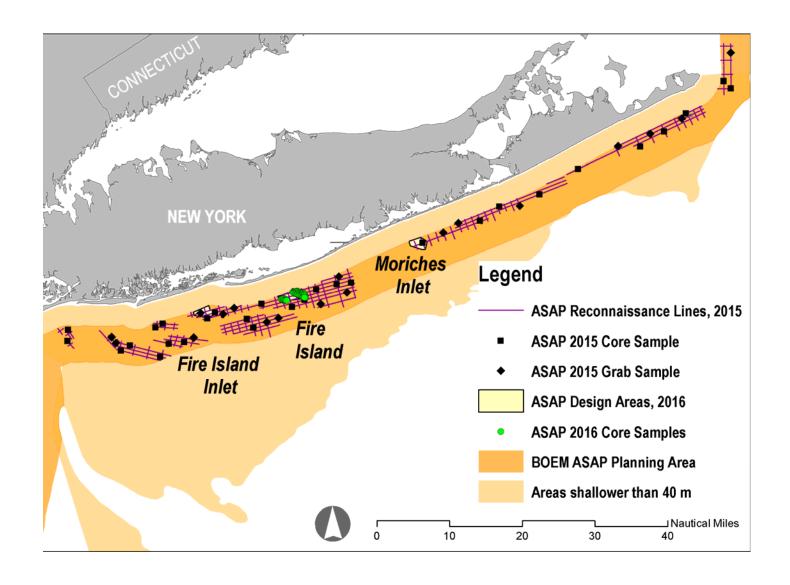
## **Assessment of Sand Resources Offshore New York**

Department of State Office of Planning, Development & Community Infrastructure Wilhelmina Innes, Mike Snyder, Jeff Herter, Barry Pendergrass, Carolyn LaBarbiera, Rebecca Newell, Peter Lauridsen, Alex Kuttesch

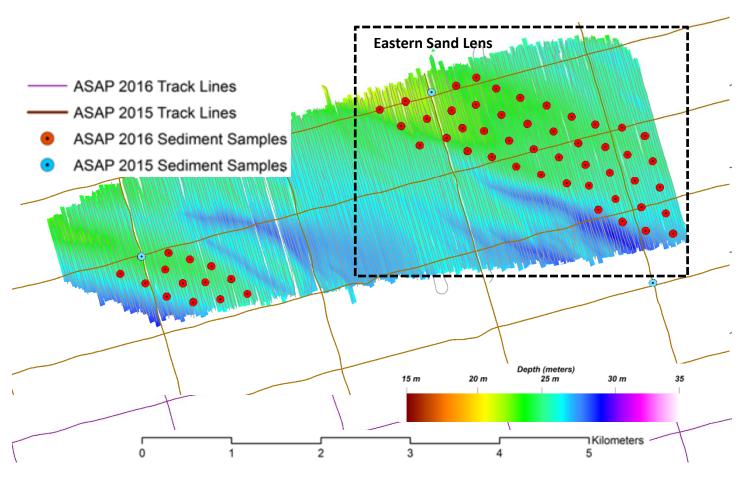
School of Marine and Atmospheric Sciences, Stony Brook University Henry Bokuniewicz, Roger Flood, Robert Wilson, Justin Lashley, Yicheng Huang, Ian Dwyer

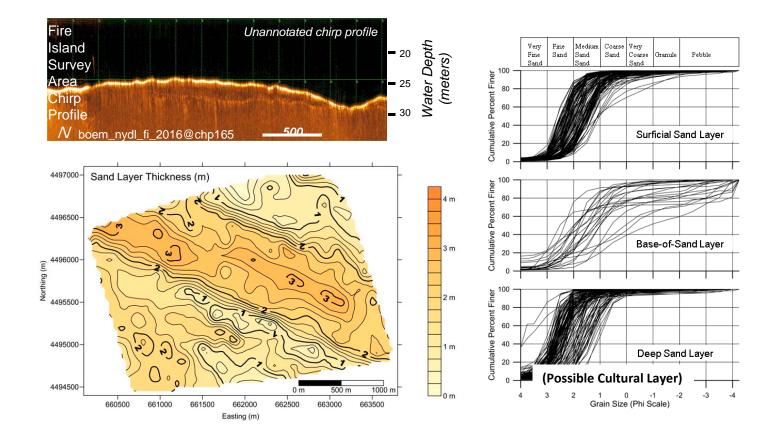
**December 19, 2017** 

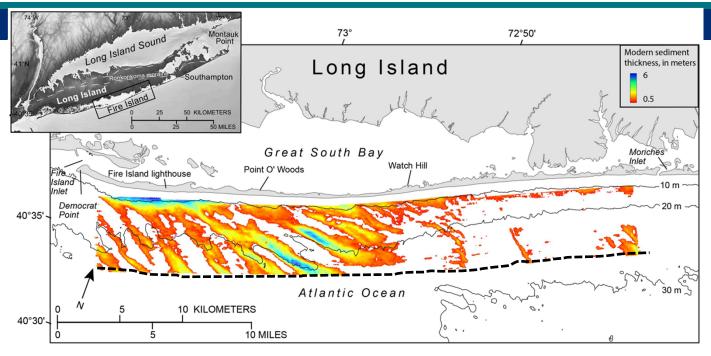




## Fire Island Design Level Survey: BOEM ASAP, 2016





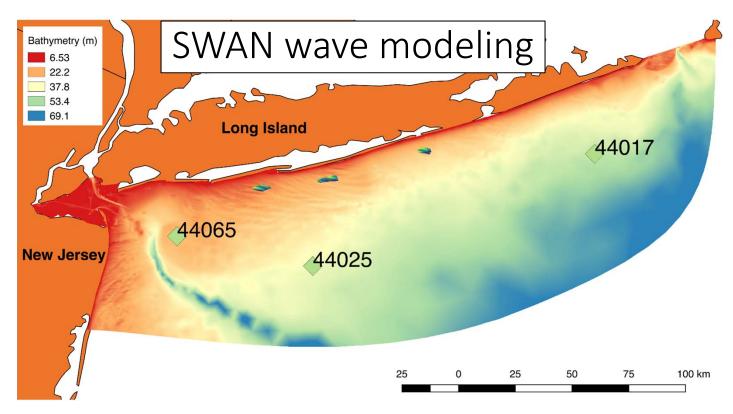


**2<sup>nd</sup> Round Considerations** 

Bathymetry, sand thickness and volume calculation uncertainties & distribution of cores across 3 design-level sites

Additional data necessary to increase confidence in sand volume estimates plus more study and vetting of site locations and characteristics

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## Assessment of the effects of the three potential borrow sites identified by BOEM on:

nearshore wave climate ( $\theta$ ,  $H_s$ ) associated with wave refraction, wave breaking long-shore sediment transport and transport divergence associated with changes in longshore component of wave energy flux

cross-shore sand transport associated with changes in velocity and acceleration skewness

## Methods for defining forcing scenarios and extracting WaveWatch III data for open boundary and local wind forcing

