Science Advisory Committee:

Socio-Cultural Studies

Atlantic and Headquarters

Dr. Brian Jordan

Federal Preservation Officer and Headquarters Archaeologist
Bureau of Ocean Energy Management

09 February 2012

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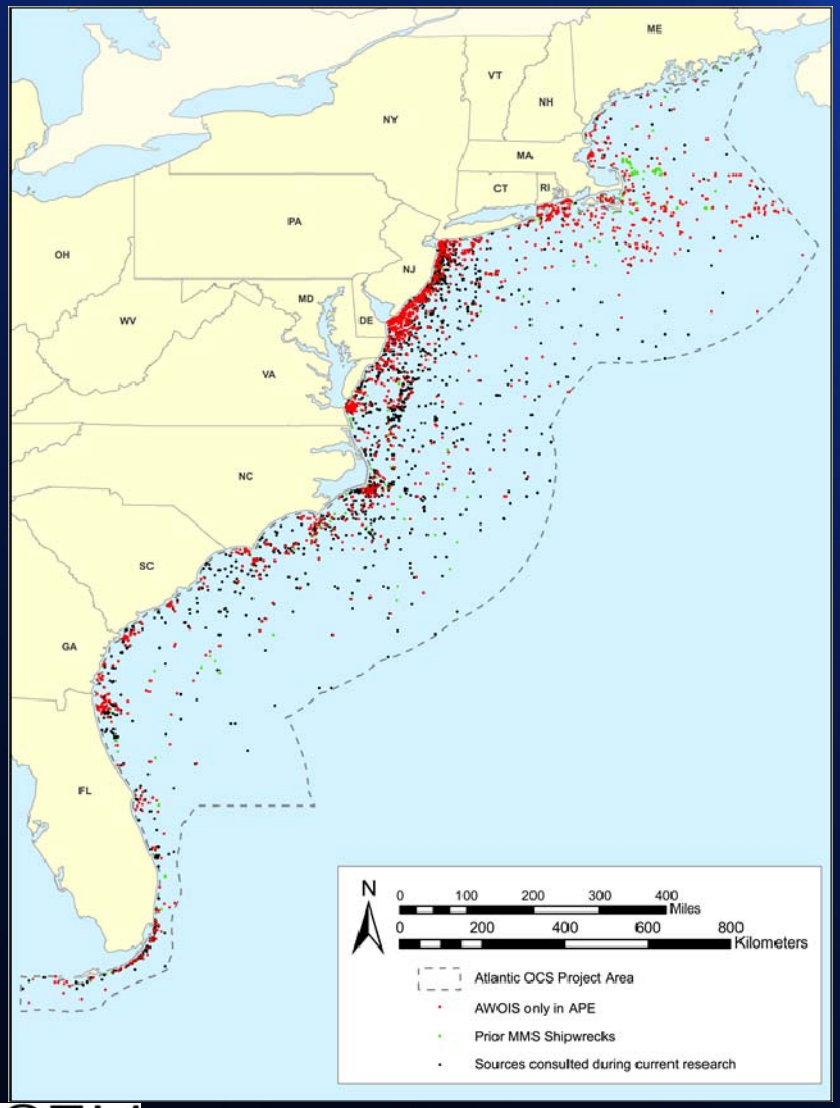
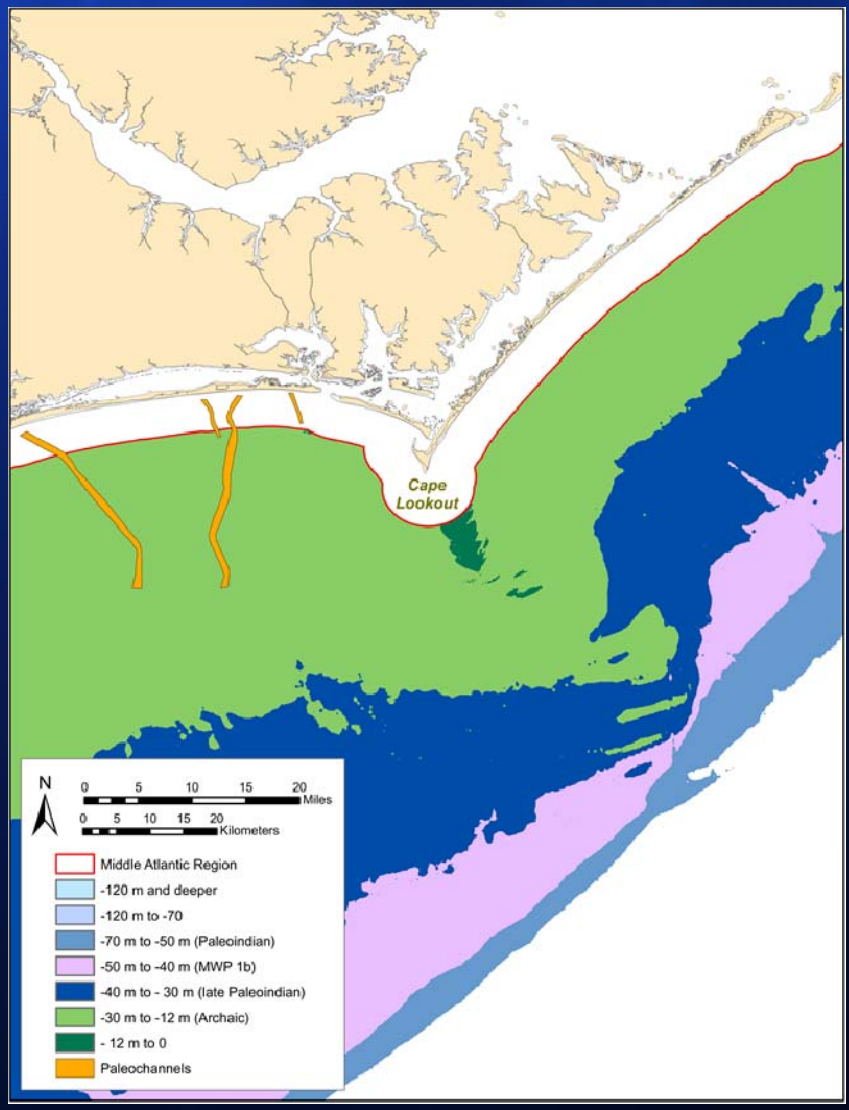
Inventory and Analysis of Archaeological Site Occurrence on the Atlantic OCS





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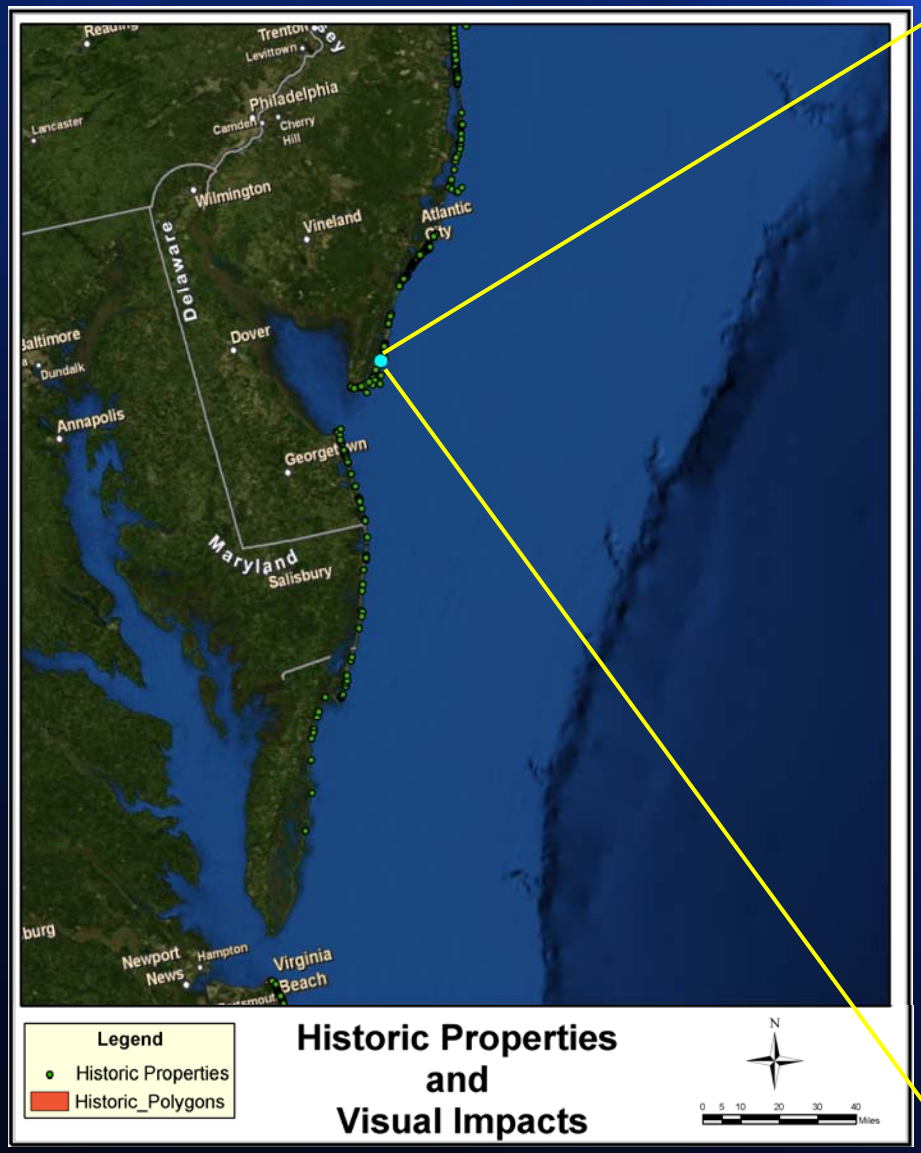
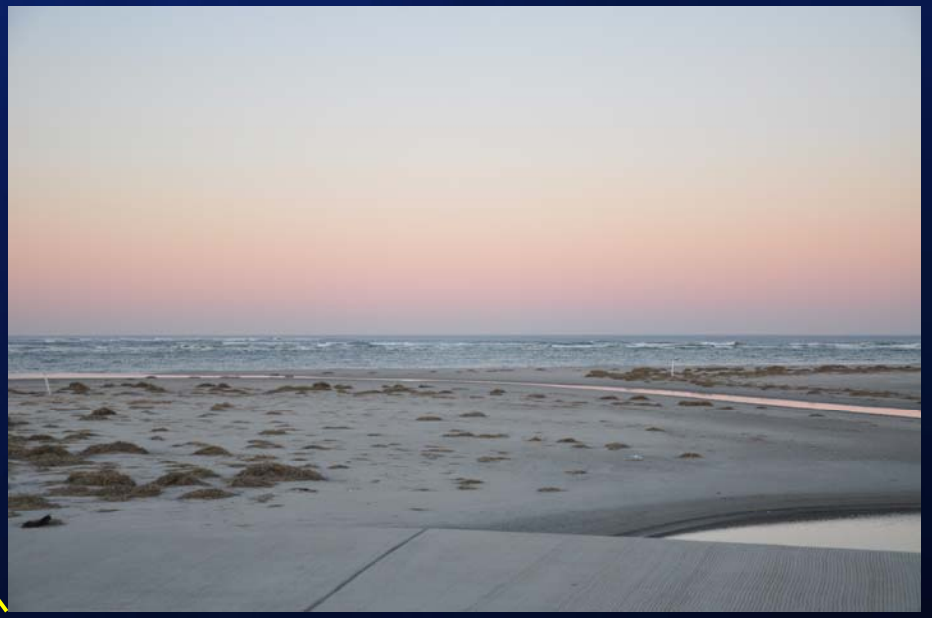
Evaluation of Visual Impacts on Historic Properties





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Studies on the Atlantic OCS

Completed

- Inventory and Analysis of Archaeological Site Occurrence on the Atlantic OCS
- Evaluation of Visual Impacts on Historic Properties

Current

- **Synthesis, Legislative Review, and Case Law History Applicable to Cultural Heritage in the Marine Environment**
- **Commercial Fish Hangs as Proxy for Shipwrecks**

Proposed

- Developing Protocols for Reconstruction Submerged Paleocultural Landscapes and Identifying Ancient Native American Archaeological sites in Submerged Environments

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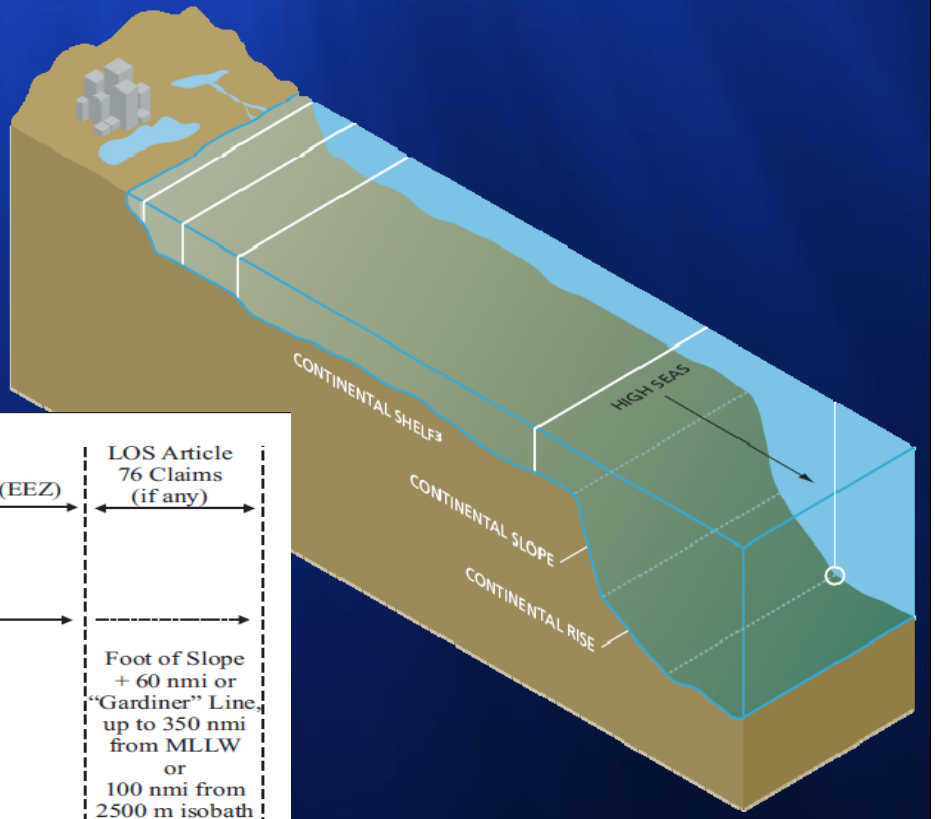
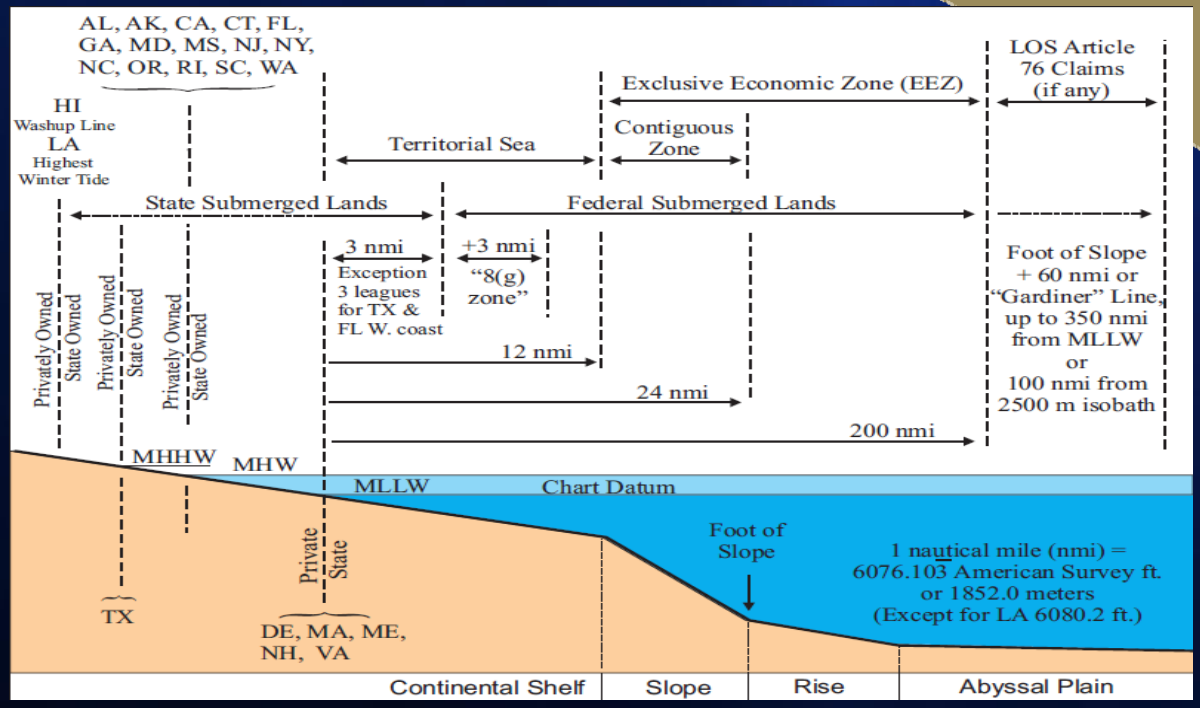
UCH Case Law Synthesis Study





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Modeling and Testing of Commercial Fish Hang Data as a Proxy for Historic Shipwreck Sites

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Studies on the Atlantic OCS

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- Synthesis, Legislative Review, and Case Law History Applicable to Cultural Heritage in the Marine Environment
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Proposed

- **Developing Protocols for Reconstruction Submerged Paleocultural Landscapes and Identifying Ancient Native American Archaeological sites in Submerged Environments**

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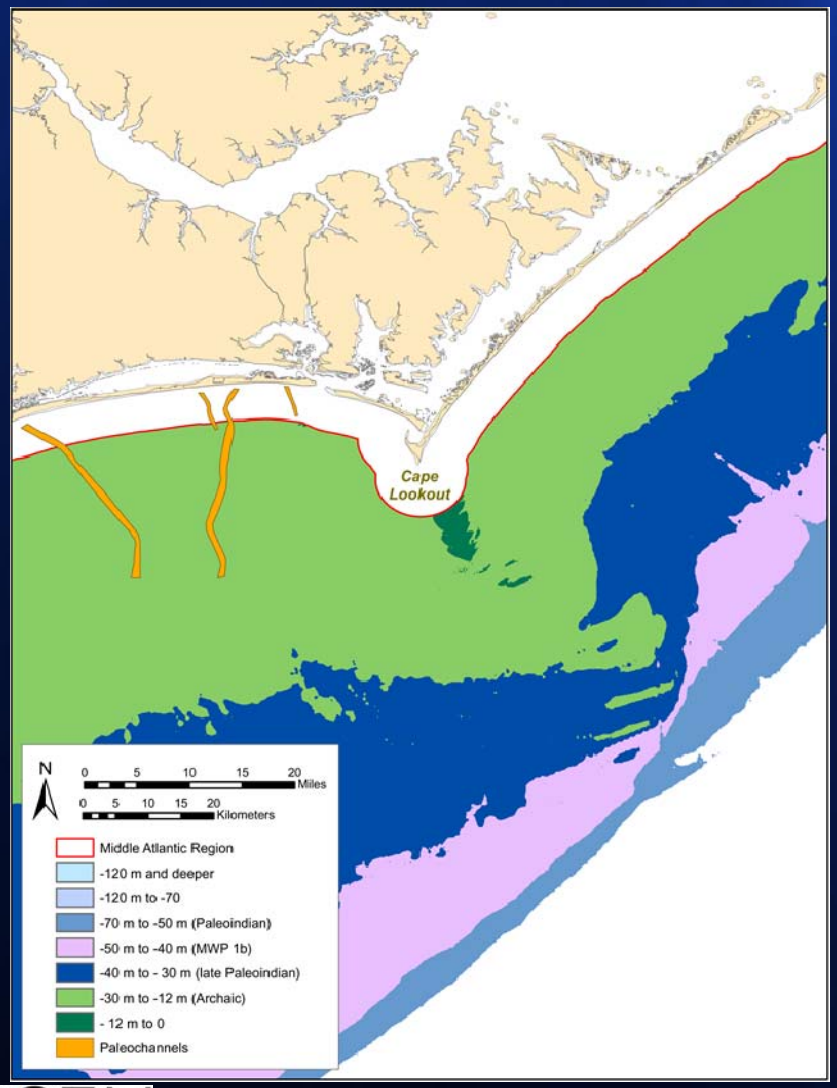
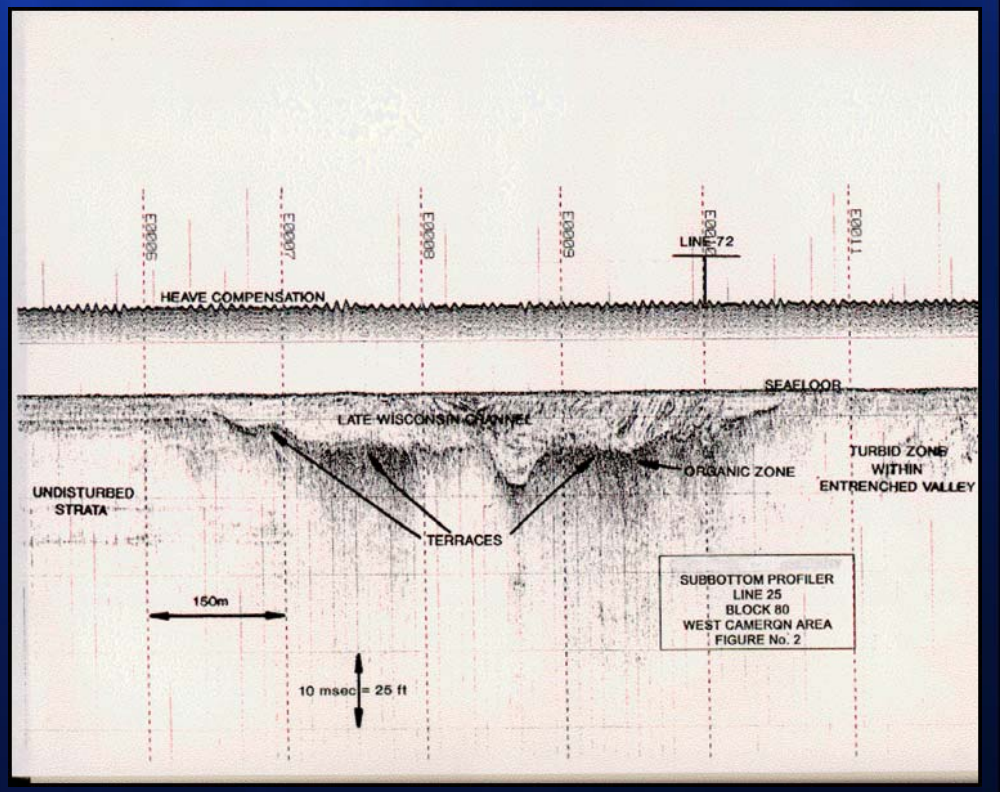
Paleocultural Landscapes in Submerged Environments





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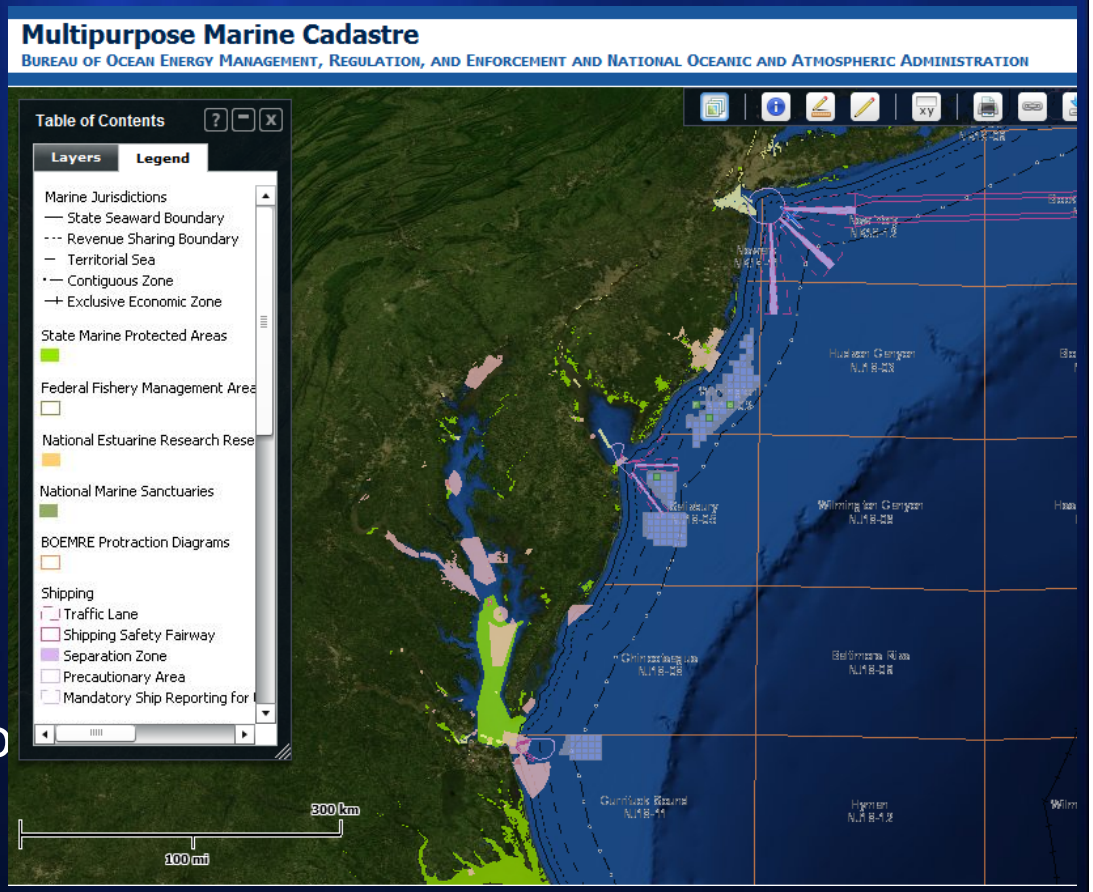
Identification of OCS Renewable Energy Space-Use Conflicts and Analysis of Potential Mitigation Measures

- Identify potential space-use conflicts
- Create a spatial database to assist in determining potential multiple use areas and future areas of conflict
- Identify potential mitigation strategies
- Identify opportunities for communication and cooperation among stakeholders



THANK YOU !

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Preparing for Renewable Energy

Discipline	Title
REN	Atlantic Region Wind Energy Development: Recreation and Tourism Economic Baseline Development
Establish an economic baseline, at the county level, for the tourism and recreation sectors in the Atlantic region. Identify coastal counties on the Atlantic seaboard that are particularly sensitive to impacts to the tourism and recreation sectors of their economies.	

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Preparing for Renewable Energy

Discipline	Title
REN	Information Synthesis on the Potential for Bat Interactions with Offshore Wind Facilities

Background

- Impact of land based wind energy to bats is well understood.

- Bats are offshore but activity appears to be lower than land.

Objective

collate information
- about bats and their potential occurrence on the OCS and compare detections of bats onshore to offshore

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Preparing for Renewable Energy

How will the results from this study support BOEM?

Offshore wind energy development has the potential to impact bats.

Understanding the relative distribution and abundance of bats species on the Atlantic OCS will greatly assist BOEM in assessing the risk of bats to offshore wind energy development.

Methods

conduct a thorough literature review of scientific studies of the impacts of offshore wind energy development on bats;

compile past and ongoing studies documenting bat occurrences over the Atlantic OCS; and

conduct a statistical comparison of bat detections at land based wind facilities and bat detections on the OCS.

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Preparing for Renewable Energy

Study Status

Contract ($110K) awarded to Stantec Consulting Services, Inc. (Oct. 2011)

Reports on Tasks 1 & 2 due in Feb 2012

Final report due Sept 2012.

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Preparing for Renewable Energy

How will the results from this study support BOEM?

- **This information will support future BOEM planning efforts by providing decision makers with relevant, timely and reliable information on the baseline of the coastal recreation and tourism industry in effected coastal counties in the Atlantic Region.**

- **The results can be used as an input to future assessments of the potential economic impacts of off-shore wind energy development on recreation and tourism in counties in the Mid, North, and South Atlantic.**

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Preparing for Renewable Energy

Objectives

1) **Compile information on potential impacts of OCS wind development on the recreation and tourism sector**

2) **Develop economic profiles of the recreation and tourism sector of coastal counties that could potentially be affected by OCS wind development**

3) **Enable the spatial review of the data gathered through the develop a GIS database**

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Preparing for Renewable Energy

Methods

The methods for this study consist of the following:

•Literature synthesis to determine the impact of wind energy development on tourism and recreation

•The use of a weighted scorecard that uses various factors to rank counties based on their overall sensitivity to impacts to the tourism and recreation economy.

•Development of socio-economic profiles for particularly sensitive counties based on the list generated by the results of the scorecard analysis. In addition, sub-county profiles will be developed for unique coastal cities within a county.

•Metadata will be gathered in order to display the results spatially.

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Preparing for Renewable Energy

Status

Completed deliverables:

- **Literature synthesis to identify the effects of offshore wind project on tourism and recreational economies.**
- **Pilot socioeconomic profile**
- **Scorecard criteria and methodology**
- **Score analysis and results**
- **Preliminary and final list of potentially impacted counties after going through the scorecard analysis**

Pending final deliverables:

- **Socioeconomic profiles for top 70 sensitive coastal counties (some hotspots included)**
- **Database and Geo-references data**
- **Final Report**