

University of Maine's Deepwater Offshore Floating Wind Turbine Testing and Demonstration  
Project  
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Prepared for:  
Northeast Regional Ocean Council (NROC)

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## 1. INTRODUCTION

The University of Maine (UMaine) deployed a temporary test turbine in Castine Harbor, ME approximately 0.25 km from shore in the spring of 2013. This is the first grid connected offshore wind turbine in North America. The dataset's coordinate location was identified from a U.S. Department of Energy proposal report and represents the approximate location of the turbine.

## 2. PURPOSE

To represent the location of renewable energy projects in the northeastern U.S. in support of coastal and ocean use planning.

## 3. SOURCES AND AUTHORITIES

- Draft Supplemental Environmental Assessment for the University of Maine's Deepwater Offshore Floating Wind Turbine Testing and Demonstration Project – U.S. Department of Energy (January 2013)  
<http://energy.gov/sites/prod/files/EA-1792-S1-DSEA-2013.pdf>

## 4. DATABASE DESIGN AND CONTENT

Native storage format: ArcGIS File Geodatabase – simple feature class

Feature Types:  
Point

Data Dictionary:

Line	Name	Definition	Type	Size
1	OBJECTID	Uniquely identifies a feature	OBJECTID	*
2	Shape	Geometric representation of the feature	geometry	*
3	name	Name of site	Text	100
4	description	Brief summary of location	Double	100

Feature Class Name: UMaineTestTurbine

Total Number of Unique Features: 1

Dataset Status: Complete

## 5. SPATIAL REPRESENTATION

Geometry Type: vector point

Reference System: GCS North American 1983

Horizontal Datum: North American Datum 1983

Ellipsoid: Geodetic Reference System 1980

XY Resolution: 1000000000.0000001

Tolerance: 0.0000000089831528411952117

Geographic extent: 44.3853, -68.824

ISO 19115 Topic Category: environment, oceans

Place Names: Place Names:

Atlantic, Castine Harbor, Maine, Penobscot Bay

Recommended Cartographic Properties:

(Using ArcGIS ArcMap nomenclature)

Simple Fill Symbol: null fill, Cartographic Line Symbol, outline width: 1.0, outline color: 255-0-255

Scale range for optimal visualization: 1,000,000 to 4,000,000

## 6. DATA PROCESSING

Processing environment: ArcGIS 10.1 SP1, Windows 7 Professional, Intel Core i5 CPU

	Process Steps Description
1	Import point feature into ArcGIS based on lat/long information in the geographic coordinate system GCS North American Datum 1983 and add appropriate attribute descriptions.

## 7. QUALITY PROCESS

Attribute Accuracy: Descriptive information was acquired from authoritative sources.

Logical Consistency: Point location is based on coordinate pair.

Completeness: This data is complete based on information from a Department of Energy report referenced in this document.

Positional Accuracy: Location is accurate based on the proposed turbine location.

Timeliness: June 2013 to May 2014

Use restrictions: Not for Navigation.

Distribution Liability: Data are provided as is. Northeast Ocean Data and RPS Applied Science Associates are not liable for any interpretations, assumptions, or conclusions based on these data.