

# **Cape Cod Torpedo Exercise (TORPEX) Boxes**

Atlantic Fleet Training and Testing (AFTT) GIS metadata, 2009  
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Prepared for:

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## **1. INTRODUCTION**

Located east of Cape Cod within and adjacent to the Boston Operating Area (OPAREA); Depth ranges from 30 to 150 meters. Typically countermeasure and torpedo (non-explosive) testing and training may occur within several areas located east of Cape Cod within or adjacent to the Boston OPAREA. During torpedo testing and training in these areas aerial, surface, and subsurface assets fire exercise torpedoes against surface or subsurface targets. Torpedo testing evaluates the performance and the effectiveness of hardware and software upgrades of heavyweight (submarine launched) or lightweight (surface ship, airplane or helicopter launched) torpedoes and training allows crews to learn and practice fundamental combat skills. The exercise torpedo is recovered by helicopter or support craft. Countermeasure testing and training involves the employment of systems that would detect, localize, and track incoming weapons. At-sea testing and training with the Surface Ship Torpedo Defense systems includes towed acoustic systems (e.g., NIXIE), torpedo warning systems, and countermeasure anti-torpedo subsystems. Countermeasure testing and training would typically be performed in conjunction with torpedo testing or training.

## **2. PURPOSE**

This data was created to assist the Navy in analysis, planning, and decision making purposes.

## **3. SOURCES AND AUTHORITIES**

- Atlantic Fleet Training and Testing, Environmental Impact Statement
- United States Fleet Forces
- Department of the Navy
- Contact the POCs below if planning activities in this area:

Fleet Area Control and Surveillance Facility, Virginia Capes  
 601 Oceana Blvd  
 Virginia Beach, VA 23460  
 757.433.1211  
[FFAECC@navy.mil](mailto:FFAECC@navy.mil)

DoD Siting Clearinghouse  
 3400 Defense Pentagon, Room 5C646  
 Washington, DC 20301 - 3400  
[osd.dod-siting-clearinghouse@mail.mil](mailto:osd.dod-siting-clearinghouse@mail.mil)

Naval Sea Floor Cable Protection Office  
 Naval Facilities Engineering Command  
 NAVFAC-OFP/C  
 1322 Patterson Ave. SE Suite 1000  
 Washington Navy Yard, DC 20374  
 1-202-433-5325  
[NSCPO@navy.mil](mailto:NSCPO@navy.mil)

#### 4. DATABASE DESIGN AND CONTENT

Native storage format: ArcGIS file geodatabase – simple feature class

Feature Types

Polygons: A geometric representation in polygon format of an area designated as Cape Cod TORPEX Boxes, Sites A through F.

Data Dictionary:

Line	Name	Definition	Type	Size
1	OBJECTID	Uniquely identifies a feature.	OBJECTID	*
2	Shape	Geometric representation of the feature.	Geometry	*
3	Shape_Length	Length of feature in internal units.	Double	*
4	Shape_Area	Area of feature in internal units squared.	Double	*
5	SubTypeIdentifier	Subtype identifier number of the features.	Integer	4
6	PKTrngID	Primary Key. A unique, user defined identifier for each record or instance of an entity.	Char	20
7	PKMapID	Foreign Key. Used to link the record to the appropriate map.	Integer	4
8	FKMetaID	Foreign Key. Used to link the record to the applicable feature level metadata record(s).	Char	20
9	FKMediaID	Foreign Key. Used to link the record to associated multimedia records that reference data such as imagery, video, audio, scanned documents, drawings, and other digital media.	Char	20
10	FKCoordID	Foreign Key. Used to link the record to the	Char	20

		appropriate point coordinate record(s).		
11	NumStruct	The number of buildings or other structures which exist on the range.	Integer	2
12	RngCntrl	The organization or agency controlling the range.	Char	60
13	RngOffcr	The officer responsible for range and range safety.	Char	20
14	RngStatus	The status of the range.	Char	30
15	RngUseDOM	A descriptor for the use of the range.	Char	16
16	MaxrngWep	The maximum range of weapons used on the range.	Double	8
17	WeapTypDOM	A descriptor for the weapon used.	Char	16
18	MaxrngUOM	The unit of measure for the maximum range used above.	Char	16
19	AreaSize	The size of the area, zone, or polygon in square units.	Double	8
20	AreaUOM	The unit of measure for area.	Char	16
21	Perim	The distance around the boundary of the area, zone, or subject item in linear units.	Double	8
22	PerimUOM	The unit of measure for length.	Char	16
23	UserFlag	An operator defined work area. This attribute can be used by the operator for user defined system processes. It does not effect the subject item's data integrity and should not be used to store the subject item's data.	Char	20
24	FeatDesc	A brief description of the training area.	Char	60
25	FKInstlnID	Foreign Key. Used to link the record to the applicable INSTALLATION record.	Char	20
26	FKFacilID	Foreign Key. Used to link the record to the Facility Record.	Char	20
27	GridValue	A numeric identification of a raster element in an image or grid that represents the feature.	Single	4
28	CoordX	The x component of individual coordinate point.	Double	8
29	CoordY	The y component of individual coordinate point.	Double	8
30	CoordZ	The z component of individual coordinate point.	Double	8
31	Narrative	A description or other unique information concerning the subject item, limited to 240 characters.	Char	240
32	RngstatDOM	The status of the range.	Char	16
33	CeilAlt	The ceiling altitude of the range.	Integer	4
34	FeatName	The name given to the range area.	Char	30

Name of Feature Class: TORPEX

Total Number of Unique Features: 6

## 5. SPATIAL REPRESENTATION

Geometry Type: polygon

Reference System: Geographic Coordinate Reference System

Horizontal Datum: GCS\_WGS\_1984

Ellipsoid: WGS\_1984

XY Resolution: 0.000000001953125

Tolerance: 0.000002000000002

Geographic extent: -76.21W to -76.09W, 37.28N to 37.01N