

Military Range Complex

Environmental Common Operating Picture (COP) GIS metadata
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Prepared for:
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1. INTRODUCTION

A range complex is a designated set of specifically bounded geographic areas and encompasses a water component (above and below the surface), airspace, and may encompass a land component where training and testing of military platforms, tactics, munitions, explosives, and electronic warfare systems occur. Range complexes include established Operating Areas (OPAREAs) and special use airspace (SUA), which may be further divided to provide better control of the area and events being conducted for safety reasons.

The Boston, Narragansett, Atlantic City, and Virginia Capes (VACAPES) range complexes are located along the Mid-Atlantic and Northeastern seaboard of the United States. Combined, these areas are the principal locations for portions of the United States Navy's major training and testing events and infrastructure. Three separate range complexes (the Boston Range Complex, the Narragansett Bay Range Complex, and the Atlantic City Range Complex) are collectively referred to as the Northeast Range Complex. These range complexes span 761 miles along the coast from Maine to New Jersey. The Northeast Range Complex includes special use airspace with associated warning areas and surface and subsurface sea space of the Boston OPAREA, Narragansett Bay OPAREA, and Atlantic City OPAREA.

- Offshore Boston Range Complex: this range complex primarily consists of surface sea space and subsurface space and includes SUA and danger zones. Situated near Kittery, Maine and Portsmouth Naval Shipyard, the offshore Boston Range Complex is located off the coasts of Maine, New Hampshire, and Massachusetts on the eastern seaboard of the United States. The offshore Boston Range Complex provides the infrastructure for United States Atlantic Fleet training and testing exercises. As part of the range complex, the Boston extends from the shoreline to approximately 80 nm seaward at its farthest point, encompassing an area from Cape Cod Bay and extending out into Massachusetts Bay and the Gulf of Maine. The subsurface space includes two submarine transit lanes used for the safe passage of submarines through the OPAREA.

- **Offshore Narragansett Bay Range Complex:** this range complex primarily consists of surface sea space and subsurface space. The offshore component of the range complex is located off the coasts of Massachusetts, Rhode Island, and New York on the eastern seaboard of the United States. It is south of New London, Connecticut, and Newport, Rhode Island, which both contain primary Navy installations. Similar to the offshore Boston Range Complex, the offshore Narragansett Bay Range Complex also consists of SUA, danger zones, and restricted areas. The offshore Narragansett Bay Range Complex provides infrastructure for U.S. Atlantic Fleet training and testing exercises. The offshore Narragansett Bay Range Complex also supports training and testing by other services. As part of the range complex, the Narragansett Bay OPAREA extends from the shoreline seaward to approximately 180 nm from land at its farthest point. The subsurface portion of the OPAREA is the same as the surface water portion.
- **Offshore Atlantic City Range Complex:** located off the coast of New Jersey, the offshore component of the Atlantic City Range Complex consists of surface sea space and subsurface space and associated SUA. This offshore Atlantic City Range Complex is used for United States Atlantic Fleet training and testing exercises. The offshore Atlantic City Range Complex additionally supports training and testing by other services, primarily USAF units from nearby bases. As part of the range complex, the Atlantic City OPAREA extends from the shoreline seaward to approximately 100 nm from land at its farthest point. The subsurface portion of the Atlantic City OPAREA has the same boundaries as the surface water portion.
- **Offshore VACAPES Range Complex:** this range complex encompasses a large offshore OPAREA, nearshore training area, land ranges, and SUA in the mid-Atlantic region of the United States. The offshore component of the VACAPES Range Complex is located off the coasts of Delaware, Maryland, Virginia, and North Carolina on the eastern seaboard of the United States, near Norfolk, Virginia, one of the primary homeports for the United States Atlantic Fleet. The offshore VACAPES Range Complex is a principal location for portions of United States Atlantic Fleet major training exercises and provides training infrastructure and operations originating out of Navy installations located in Delaware, Maryland, Virginia, and North Carolina. The offshore VACAPES Range Complex additionally supports training by other installations and services. The VACAPES OPAREA also includes a subsurface operating area that covers the same area as the surface waters and includes submarine transit lanes.

2. PURPOSE

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

3. SOURCES AND AUTHORITIES

- National Geospatial-Intelligence Agency (NGA)
- Digital Aeronautical Flight Information File (DAFIF)
- Northeast, Virginia Capes, and Chesapeake Bay Offshore Encroachment Action Plan

- United States Fleet Forces Range Complex Support Team
- Atlantic Fleet Training and Testing, Environmental Impact Statement
- 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

DoD Siting Clearinghouse
 3400 Defense Pentagon, Room 5C646
 Washington, DC 20301 - 3400
 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

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 a Military Range Complex.

Data Dictionary:

Line	Name	Definition	Type	Size
1	OBJECTID	Sequential unique whole numbers that are automatically generated.	OBJECTID	*
2	SHAPE	Coordinates defining the features.	Geometry	*
3	PKAirspaceID	No definition available.	String	20
4	PKMapID	No definition available.	Integer	4
5	FKMetaID	No definition available.	String	20
6	FKMediaID	No definition available.	String	20
7	FKCoordID	No definition available.	String	20
8	Remarks	No definition available.	String	240
9	Narrative	No definition available.	String	240
10	Elevation	No definition available.	Single	4
11	FeatDesc	No definition available.	String	80

12	FeatName	No definition available.	String	30
13	DateEstab	No definition available.	Integer	4
14	DateEnfor	No definition available.	Integer	4
15	NoticeNum	No definition available.	String	30
16	Actions	No definition available.	String	80
17	FeaTypDOM	No definition available.	String	16
18	AreaSize	No definition available.	Double	8
19	AreaUOM	No definition available.	String	16
20	Perim	No definition available.	Double	8
21	PerimUOM	No definition available.	String	16
22	GridValue	No definition available.	Single	4
23	FKInstlnID	No definition available.	String	20
24	FKFacilID	No definition available.	String	20
25	UserFlag	No definition available.	String	20
26	Shape_Length	Length of feature in internal units.	Double	8
27	Shape_Area	Area of feature in internal units squared.	Double	8

Name of Feature Class: regulated_airspace_area

Total Number of Unique Features: 37

5. SPATIAL REPRESENTATION

Geometry Type: polygon

Reference System: Geographic Coordinate Reference System

Horizontal Datum: GCS_WGS_1984

Ellipsoid: WGS_1984

XY Resolution: 0.000000001

Tolerance: 0.000000008983153

Geographic extent: -88.03W to -71.38W, 40.45N to 28.83N