Red Crab Trap/Pot Fishery

Identification

CITATION
CITATION INFORMATION
ORIGINATOR
NOAA Fisheries Greater Atlantic Regional Fisheries Office
PUBLICATION DATE 2016-06-01
TITLE
Red Crab Trap/Pot Fishery
PUBLICATION INFORMATION
PUBLICATION PLACE Gloucester, MA
PUBLISHER NOAA National Marine Fisheries Service (NMFS) - Greater Atlantic Regional Fisheries Office (GARFO)
ONLINE LINKAGE http://www.greateratlantic.fisheries.noaa.gov/gis
ONLINE LINKAGE http://www.greateratlantic.fisheries.noaa.gov/

DESCRIPTION
ABSTRACT
This dataset depicts the boundaries of the Red Crab Trap/Pot Fishery in ESRI shapefile format for the NOAA Fisheries Service’s Greater Atlantic Regional Fisheries Office (GARFO). This shapefile includes boundaries for the following Regulated Areas:
- Red Crab Trap/Pot Fishery (Year-round)
- Red Crab Trap/Pot Fishery (Sep 1 - May 31)
- Red Crab Trap/Pot Fishery (Nov 15 - Apr 15)
- Red Crab Trap/Pot Fishery (Dec 1 - Mar 31)

Because GIS projection and topology functions can change or generalize coordinates, these GIS files are considered to be approximate representations and are NOT an OFFICIAL record for the exact regulated area boundaries. For information on the official legal definition refer to the Use Constraints metadata section.
PURPOSE
Beginning in 2010 and in response to mounting requests for digital depictions of NMFS Regulated Areas in Northeast and Mid-Atlantic Waters (Regulated Areas), the NMFS Greater Atlantic Regional Fisheries Office (GARFO) Geographic Information Systems (GIS) Committee launched a project to standardize the development, publication and regular updating of GIS files depicting Regulated Area boundaries. This dataset is a product of that initiative.

This dataset was created to depict the boundaries of NMFS Regulated Areas in Northeast and Mid-Atlantic Waters (Regulated Areas) only. For information on the proper use of the dataset refer to the Use Constraints metadata section.
TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION
SINGLE DATE/TIME
CALENDAR DATE 2016-06-01
CURRENTNESS REFERENCE
Publication date
STATUS
PROGRESS Complete
MAINTENANCE AND UPDATE FREQUENCY As needed

SPATIAL DOMAIN
BOUNDING COORDINATES
WEST BOUNDING COORDINATE -80
EAST BOUNDING COORDINATE -64
NORTH BOUNDING COORDINATE 46
**Keywords**

**Theme**

**Theme Keyword Thesaurus**  ISO 19115 Topic Category

**Theme Keyword**  boundaries

**Theme Keyword**  environment

**Theme Keyword**  location

**Theme Keyword**  oceans

**Theme Keyword**  planningCadastre

**Theme**

**Theme Keyword Thesaurus**  EPA GIS Keyword Thesaurus

**Theme Keyword**  Biology

**Theme Keyword**  Compliance

**Theme Keyword**  Conservation

**Theme Keyword**  Ecology

**Theme Keyword**  Ecosystem

**Theme Keyword**  Environment

**Theme Keyword**  Human

**Theme Keyword**  Management

**Theme Keyword**  Marine

**Theme Keyword**  Monitoring

**Theme Keyword**  Natural Resources

**Theme Keyword**  Permits

**Theme Keyword**  Regulatory

**Theme Keyword**  Water

**Theme**

**Theme Keyword Thesaurus**  GARFO Keywords

**Theme Keyword**  ALWTRP

**Theme Keyword**  Atlantic

**Theme Keyword**  Atlantic Large Whale Take Reduction Plan

**Theme Keyword**  EEZ

**Theme Keyword**  Endangered Species Act

**Theme Keyword**  ESA

**Theme Keyword**  Exclusive Economic Zone

**Theme Keyword**  GARFO

**Theme Keyword**  Greater Atlantic Regional Fisheries Office

**Theme Keyword**  Marine Mammal Protection Act

**Theme Keyword**  MMPA

**Theme Keyword**  National Marine Fisheries Service

**Theme Keyword**  National Oceanic and Atmospheric Administration

**Theme Keyword**  NMFS

**Theme Keyword**  NOAA

**Theme Keyword**  US EEZ

**Place**

**Place Keyword Thesaurus**  None

**Place Keyword**  Atlantic Ocean

**Place Keyword**  Georges Bank

**Place Keyword**  Greater Atlantic Region

**Place Keyword**  Gulf of Maine

**Place Keyword**  Mid-Atlantic

**Place Keyword**  New England

**Place Keyword**  Southeast
ACCESS CONSTRAINTS

None.

USE CONSTRAINTS

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NOAA Fisheries Service. NMFS Regulated Areas in Northeast and Mid-Atlantic Waters. {SHAPEFILE TITLE} [Shapefile]. Gloucester, MA: National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS), Greater Atlantic Regional Fisheries Office (GARFO) [producer] {SHAPEFILE PUBLICATION DATE}.

http://www.greateratlantic.fisheries.noaa.gov/gis.

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This dataset was created to depict the boundaries of NMFS Regulated Areas in Northeast and Mid-Atlantic Waters (Regulated Areas) only. The dataset should not be used for a legal definition. The dataset should not be used to infer information regarding the existence or details of other marine features or resources, including, but not limited to, navigable waters, coastlines, bathymetry, submerged features, or man-made structures. Users assume responsibility for determining the appropriate use of this dataset.

*** Not the Legal Definition *** This Geographic Information System (GIS) dataset is not the legal definition of the Regulated Area. The description published in the U.S. Code of Federal Regulations is the only legal definition. This dataset and metadata document provide a broad overview of a subset of applicable fishing regulations, restrictions and requirements; it is not a substitute for the actual regulations. Users are encouraged to read the applicable regulations in conjunction with use of this dataset.

*** Temporal Considerations *** Regulated Area boundary definitions are subject to change or modification. Published datasets may represent historic, current, or future Regulated Areas. When changes to fishing regulations affect this dataset, it will be archived and replaced by an updated version as soon as feasible. Approved Regulated Area boundaries may also be published prior to their effective date. It is the user’s responsibility to ensure the applicable Regulated Area boundaries are being used.

*** Shorelines/Base Layers *** The accuracy of this dataset is dependent upon the accuracy and resolution of the datasets (e.g., shoreline, bathymetry, shared administrative boundaries) used in the creation process. Source datasets used are specified in the metadata. These data
sources were selected for their suitability to a broad audience, and may not be suitable for specific uses requiring higher-resolution information.

Coastlines change. Unless otherwise noted, where the NOAA Medium Resolution Shoreline is used, assume the regulatory boundary reaches the most current coastline delineation available.

POINT OF CONTACT
CONTACT INFORMATION
CONTACT PERSON PRIMARY
CONTACT PERSON Michael Asaro
CONTACT ORGANIZATION NOAA Fisheries Service Greater Atlantic Regional Fisheries Office, Protected Resources Division
CONTACT POSITION GIS Committee Protected Resources Representative
ADDRESS TYPE mailing and physical address
ADDRESS 55 Great Republic Drive
CITY Gloucester
STATE OR PROVINCE MA
POSTAL CODE 01930

CONTACT VOICE TELEPHONE 978-282-8469
CONTACT FAX TELEPHONE 978-281-9394
CONTACT ELECTRONIC MAIL ADDRESS michael.asaro@noaa.gov

Data Quality

LOGICAL CONSISTENCY REPORT
Check Geometry test has been performed in ArcGIS.

COMPLETENESS REPORT
Features represented are valid. No geometry problems were detected.

POSITIONAL ACCURACY
HORIZONTAL POSITIONAL ACCURACY
HORIZONTAL POSITIONAL ACCURACY REPORT
Data were collected using methods that are accurate to within 2-5 meters (EPA National Geospatial Data Policy [NGDP] Accuracy Tier 2). For more information, please see EPA’s NGDP at http://epa.gov/geospatial/policies.html

LINEAGE
SOURCE INFORMATION
SOURCE CITATION
CITATION INFORMATION
ORIGINATOR Department of Commerce (DOC), National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS)
PUBLICATION DATE 2016-04-12

ELECTRONIC CODE OF FEDERAL REGULATIONS
EDITION Special Edition of the Federal Register
GEOSPATIAL DATA PRESENTATION FORM document
PUBLICATION INFORMATION
PUBLICATION PLACE Washington, DC
PUBLISHER Office of the Federal Register, National Archives and Records Administration and the Government Printing Office
OTHER CITATION DETAILS
The Electronic Code of Federal Regulations (e-CFR) is a current, daily updated version of the Code of Federal Regulations (CFR). It is not an official legal edition of the CFR. The e-CFR is an unofficial editorial compilation of CFR material and Federal Register amendments. Because the e-CFR is updated daily, the PUBLICATION DATE identified above refers to "e-CFR Data is current as of" date posted on the e-CFR website at the time the spatial definition was accessed online.

ONLINE LINKAGE http://www.ecfr.gov

TYPE OF SOURCE MEDIA online
SOURCE TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION
SINGLE DATE/TIME
CALENDAR DATE 1998-01-01
SOURCE CURRENTNESS REFERENCE publication date
SOURCE CITATION ABBREVIATION e-CFR
SOURCE CONTRIBUTION Spatial definitions for Regulated Area boundaries.

SOURCE INFORMATION
ORIGINATOR Department of Commerce (DOC), National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Coast Survey (OCS)
PUBLICATION DATE 2011-05-01
TITLE USMaritimeLimitsNBoundaries
EDITION 1
GEOSPATIAL DATA PRESENTATION FORM vector digital data
PUBLICATION INFORMATION
PUBLICATION PLACE Silver Spring, MD
PUBLISHER NOAA's Ocean Service, Office of Coast Survey (OCS)
ONLINE LINKAGE http://www.nauticalcharts.noaa.gov/csdl/mbound.htm

TYPE OF SOURCE MEDIA digital download (ESRI shapefile)
SOURCE TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION
SINGLE DATE/TIME
CALENDAR DATE 2011-05-01
SOURCE CURRENTNESS REFERENCE publication date
SOURCE CITATION ABBREVIATION US EEZ
SOURCE CONTRIBUTION This source marine boundary was used to generate template shapefiles, which were copied and used when Regulatory Area boundaries followed portions of the US Exclusive Economic Zone.

SOURCE INFORMATION
ORIGINATOR Department of Commerce (DOC), National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Special Projects (SP)
PUBLICATION DATE 1998
TITLE NOAA's Medium Resolution Digital Vector Shoreline (1998) for the Contiguous United States
GEOSPATIAL DATA PRESENTATION FORM vector digital data
PUBLICATION INFORMATION
PUBLICATION PLACE Silver Spring, MD
PUBLISHER NOAA's Ocean Service, Special Projects (SP)
ONLINE LINKAGE http://www.ngdc.noaa.gov/mgg/shorelines/noaamrdvs.html
This source shoreline was used to generate template shapefiles, which were copied and used when Regulatory Area boundaries followed portions of the US Atlantic coastline. This data source was selected for its suitability to a broad audience, and may not be suitable for specific uses requiring higher-resolution information. Coastlines change. Unless otherwise noted, where the NOAA Medium Resolution Shoreline is used, assume the regulatory boundary reaches the most current coastline delineation available.

[Template Generation] Many NMFS Regulated Areas in Northeast and Mid-Atlantic Waters (Regulated Areas) share boundaries that are partially coincident with any combination of the following: 1) the U.S. Atlantic coastline; 2) the Submerged Lands Act boundary; 3) the U.S.-Canada Maritime Boundary in the Gulf of Maine; 4) the outward extent of the U.S. Exclusive Economic Zone (a.k.a. the "200-nautical mile line"). To standardize Regulated Area features sharing these boundaries, published shapefiles of the shared administrative boundaries were obtained from the authoritative agencies. A shoreline was selected that was suitable for general mapping purposes, freely and publicly available, of medium-resolution, and covering the extent of the U.S.. When necessary, the boundaries were transformed to NAD83. A series of template polygon shapefiles were then generated, using these authoritative boundaries as the outward extents of the polygon. All templates were generated in NAD83 geographic coordinate system. The templates created are: 1) Coast-to-EEZ: bounded by the coastline, the U.S.-Canada Maritime Boundary, the U.S. EEZ, and 81°W longitude off the southern extent of Florida (an arbitrary cut-off for the Atlantic); 2) Coast-to-SLA: bounded by the coastline, the U.S.-Canada Maritime Boundary, the Submerged Lands Act boundary, and 81°W longitude off the southern extent of Florida; 3) SLA-to-EEZ: bounded by the Submerged Lands Act boundary, the U.S.-Canada Maritime Boundary, the U.S. EEZ, and 81°W longitude off the southern extent of Florida. These templates were subsequently copied and edited, as needed by the Regulated Area spatial definitions.

[Get Definition Text] The current legal spatial definition for the Regulated Area was copied from the e-CFR website.

[Features From Templates] The Coast-to-EEZ template shapefile was copied. If necessary, the coordinates of the Regulated Area definition were converted to Decimal Degrees. To generate the Regulated Area boundary in ArcGIS, the template polygon was split by connecting these points in the order specified in the spatial definition. When the spatial definition specified that points were connected by following a straight line, rhumb lines were constructed. As an exception, points intended to fall along the U.S.-Canada Maritime Boundary were connected by following the geodesic line that legally defines that international boundary. When the spatial
definition specified that points were connected by following the Coastline or EEZ the coinciding outward extent of the template polygon was used. After all points were appropriately connected, any portions of the template outside the defined Regulated Area were discarded. When multiple Regulated Areas are a part of a larger grouping of related Regulated Areas, these steps were repeated to generate a unique feature for each Regulated Area and the features were then combined into a single shapefile. The file was projected to NAD83 Mercator Projection, and the boundaries were densified with consecutive vertices spaced no more than 10 nautical miles apart to preserve rhumb line paths in other coordinate systems. The file was projected back to the un-projected NAD83 coordinate system.

**PROCESS DATE** 2016

**PROCESS STEP**
**PROCESS DESCRIPTION**
[Add Attributes] The standardized attribute schema was applied to the shapefile, and the fields were defined.
**PROCESS DATE** 2016

**PROCESS STEP**
**PROCESS DESCRIPTION**
[Policy Review] The Regulated Area spatial definition text, shapefile geometry and attribute values were reviewed with policy staff to verify that the shapefile accurately depicted and described the intended boundaries.
**PROCESS DATE** 2016

**PROCESS STEP**
**PROCESS DESCRIPTION**
[Check Geometry] The ESRI ArcGIS Check Geometry tool was run on the shapefile to identify any geometry problems. If problems were encountered, they were reviewed and corrected.
**PROCESS DATE** 2016

**PROCESS STEP**
**PROCESS DESCRIPTION**
[Metadata] A GARFO Regulated Area shapefile metadata template was developed using the EPA Metadata Editor v3.2. This template was applied and customized to reflect the specific characteristics of the given shapefile. The metadata was validated for FGDC CSDGM compliance.
**PROCESS DATE** 2016

**PROCESS STEP**
**PROCESS DESCRIPTION**
[Final Review] The shapefile was reviewed by members of the GARFO GIS Committee, policy experts from the GARFO Division responsible for the Regulated Area, and General Counsel, according to the GARFO GIS Data Distribution Policy.
**PROCESS DATE** 2016

**PROCESS STEP**
**PROCESS DESCRIPTION**
[Publication] The shapefile, with accompanying metadata, was uploaded for public download on the NOAA NMFS GARFO GIS website.
**PROCESS DATE** 2016-06-01

**Spatial Reference**

**HORIZONTAL COORDINATE SYSTEM DEFINITION**
**GEOGRAPHIC**
**LATITUDE RESOLUTION** 0.000001
**LONGITUDE RESOLUTION** 0.000001
**GEOGRAPHIC COORDINATE UNITS**  Decimal degrees
Geodetic Model
Horizontal Datum Name  North American Datum of 1983
Ellipsoid Name  Geodetic Reference System 1980
Semi-major Axis  6378137.000000
Denominator of Flattening Ratio  298.257222

Entities and Attributes

Detailed Description
Entity Type
Entity Type Label  Regulated Area
Entity Type Definition
NMFS Regulated Areas in Northeast and Mid-Atlantic Waters
Entity Type Definition Source  GARFO

Attribute
Attribute Label  FID
Attribute Definition
Internal feature number
Attribute Definition Source  ESRI
Attribute Domain Values
Unrepresentable Domain
System-generated internal feature number

Attribute
Attribute Label  Shape
Attribute Definition
Feature geometry
Attribute Definition Source  ESRI
Attribute Domain Values
Unrepresentable Domain
Coordinate geometry

Attribute
Attribute Label  GARFO_ID
Attribute Definition
A unique identifier used to identify and track this feature; a new GARFO_ID is generated for each version of a Regulated Area (i.e. whenever boundaries or attributes are changed, edited or updated)
Attribute Definition Source  GARFO
Attribute Domain Values
Unrepresentable Domain
System-generated number

Attribute
Attribute Label  AREANAME
Attribute Definition
Official name of the Regulated Area, usually the area name as printed in the CFR
Attribute Definition Source  GARFO
Attribute Domain Values
Unrepresentable Domain
Free text name

Attribute
Attribute Label  COMMNAME
Attribute Definition
Most commonly used name. May be identical to AREANAME, an abbreviation of AREANAME, or a different name altogether.

ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL AREAGROUP
ATTRIBUTE DEFINITION
Specifies if the Regulated Area is part of a group of related areas
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL DESCRIBE
ATTRIBUTE DEFINITION
A brief description of the purpose of the Regulated Area
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text description

ATTRIBUTE
ATTRIBUTE LABEL CFRTITLE
ATTRIBUTE DEFINITION
CFR Title citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL CFRPT
ATTRIBUTE DEFINITION
CFR Part citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRPTTXT
ATTRIBUTE DEFINITION
CFR Part citation header text
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text name

ATTRIBUTE
ATTRIBUTE LABEL CFRSUB
ATTRIBUTE DEFINITION
CFR Subpart citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES
ATTRIBUTE
ATTRIBUTE LABEL CFRSUBTXT
ATTRIBUTE DEFINITION CFR Subpart citation header text
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRSXN
ATTRIBUTE DEFINITION CFR Section citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRSXNTXT
ATTRIBUTE DEFINITION CFR Section citation header text
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRPARA
ATTRIBUTE DEFINITION CFR Paragraph citation where the Regulated Area is legally defined
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL CFRPARATXT
ATTRIBUTE DEFINITION CFR Paragraph citation header text
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text citation

ATTRIBUTE
ATTRIBUTE LABEL FRCITE
ATTRIBUTE DEFINITION Federal Register citation of original Regulated Area spatial definition, or last modification to the spatial definition, whichever is most recent. Refers to SPATIAL DEFINITION ONLY. Subsequent FR notices may have modified the requirements affecting waters within or outside this Regulated Area.
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
Free text name

**ATTRIBUTE**
**ATTRIBUTE LABEL**: FRDATE
**ATTRIBUTE DEFINITION**: Federal Register citation date of original Regulated Area spatial definition, or the last modification to the spatial definition, whichever is most recent. Refers to SPATIAL DEFINITION ONLY. Subsequent FR notices may have modified the requirements affecting waters within or outside this Regulated Area.
**ATTRIBUTE DEFINITION SOURCE**: GARFO
**ATTRIBUTE DOMAIN VALUES**: Date

**ATTRIBUTE**
**ATTRIBUTE LABEL**: EFFECTDATE
**ATTRIBUTE DEFINITION**: Date Regulated Area officially became law, or most recent modification
**ATTRIBUTE DEFINITION SOURCE**: GARFO
**ATTRIBUTE DOMAIN VALUES**: Date

**ATTRIBUTE**
**ATTRIBUTE LABEL**: SOURCE
**ATTRIBUTE DEFINITION**: If Regulated Area is defined in the CFR, this is the citation for the Amendment/Framework/etc. that established the area. If the Regulated Area is not defined in the CFR, this is the alternative source citation establishing the Regulated Area.
**ATTRIBUTE DEFINITION SOURCE**: GARFO
**ATTRIBUTE DOMAIN VALUES**: Date

**ATTRIBUTE**
**ATTRIBUTE LABEL**: RECURST
**ATTRIBUTE DEFINITION**: Annually recurring date Regulated Area becomes active
**ATTRIBUTE DEFINITION SOURCE**: GARFO
**ATTRIBUTE DOMAIN VALUES**: Date

**ATTRIBUTE**
**ATTRIBUTE LABEL**: RECUREND
**ATTRIBUTE DEFINITION**: Annually recurring date Regulated Area becomes inactive
**ATTRIBUTE DEFINITION SOURCE**: GARFO
**ATTRIBUTE DOMAIN VALUES**: Date

**ATTRIBUTE**
**ATTRIBUTE LABEL**: GISAUTHOR
**ATTRIBUTE DEFINITION**: Name of the NOAA staff person who created the GIS feature
**ATTRIBUTE DEFINITION SOURCE**: GARFO
**ATTRIBUTE DOMAIN VALUES**:
Entity Attributes provide reference information for the Regulated Areas represented. Attributes provide citations for the legal spatial definition and originating documents, and currentness information for each area.

Entity and Attribute Detail Citation

FILEDS_Map.xlsx fully describes the Attribute Schema used for regulated area GIS data sets. To access this document, see the Contact Information.

Distribution Information

Contact Information
Contact Person Primary
Dean-Lorenz Szumylo
NOAA Fisheries Service Greater Atlantic Regional Fisheries Office, GIS Committee
GIS Specialist

Address
Address Type: mailing and physical address
55 Great Republic Drive
Gloucester, MA 01930

Contact Voice Telephone: 978-282-8479
Contact Facsimile Telephone: 978-281-9333
Contact Electronic Mail Address: dean.szumylo@noaa.gov

Resource Description
Downloadable Data

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**Metadata Reference**

- **Metadata Date**: 2016-06-01
- **Metadata Future Review Date**: 2020-06-01
- **Metadata Contact**
  - **Contact Information**
  - **Contact Person Primary**: Dean-Lorenz Szumylo
  - **Contact Organization**: NOAA Fisheries Service Greater Atlantic Regional Fisheries Office, GIS Committee
  - **Contact Position**: GIS Specialist
  - **Address Type**: mailing and physical address
  - **Address**: 55 Great Republic Drive
  - **City**: Gloucester
  - **State or Province**: MA
  - **Postal Code**: 01930
  - **Contact Voice Telephone**: 978-282-8479
  - **Contact Facsimile Telephone**: 978-281-9333
  - **Contact Electronic Mail Address**: dean.szumylo@noaa.gov
  - **Contact Instructions**: http://www.greateratlantic.fisheries.noaa.gov/

- **Metadata Standard Name**: FGDC Content Standard for Digital Geospatial Metadata
- **Metadata Standard Version**: FGDC-STD-001-1998