Red Crab Management Unit

Identification

CITATION
CITATION INFORMATION
ORIGINATOR NOAA Fisheries Greater Atlantic Regional Fisheries Office
PUBLICATION DATE 2014-05-01
TITLE Red Crab Management Unit
PUBLICATION INFORMATION
PUBLICATION PLACE Gloucester, MA
PUBLISHER NOAA National Marine Fisheries Service (NMFS) - Greater Atlantic Regional Fisheries Office (GARFO)
ONLINE LINKAGE http://www.nero.noaa.gov/gis
ONLINE LINKAGE http://www.nero.noaa.gov/

DESCRIPTION
ABSTRACT
This dataset depicts the boundaries of the Red Crab Management Unit 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 Management Unit

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 INFORMATION
SINGLE DATE/Time
CALENDAR DATE 2014-05-01
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
SOUTH BOUNDING COORDINATE 32

KEYWORDS
Access Constraints

None.

Use Constraints

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NOAA Fisheries Service. NMFS Regulated Areas in Northeast and Mid-Atlantic Waters. Shapefile [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.nero.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** Doug Potts

**Contact Organization** NOAA Fisheries Service Greater Atlantic Regional Fisheries Office, Sustainable Fisheries Division

**Contact Position** GIS Committee Sustainable Fisheries Representative

**Address Type** mailing and physical address

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**City** Gloucester

**State or Province** MA

**Postal Code** 01930

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**Contact Instructions** http://www.nero.noaa.gov/

**Security Information**

**Security Classification System** FIPS Pub 199

**Security Classification** No Confidentiality

**Security Handling Description** Standard Technical Controls

**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** 2014-01-23

**Title**

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 2002-10-21
SOURCE CURRENTNESS REFERENCE
publication date
SOURCE CITATION ABBREVIATION e-CFR
SOURCE CONTRIBUTION Spatial definitions for Regulated Area boundaries.
SOURCE INFORMATION
SOURCE CITATION
CITATION 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
SOURCE CITATION
CITATION 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

SOURCE SCALE DENOMINATOR 70000
TYPE OF SOURCE MEDIA  digital download (ESRI shapefile)
SOURCE TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION
RANGE OF DATES/TIMES
BEGINNING DATE  1988
ENDING DATE  1992
SOURCE CURRENTNESS REFERENCE
publication date
SOURCE CITATION ABBREVIATION
NOAA Medium Resolution Shoreline
SOURCE CONTRIBUTION
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.

PROCESS STEP
PROCESS DESCRIPTION
[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.

PROCESS DATE  2013

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

PROCESS DATE  2013

PROCESS STEP
PROCESS DESCRIPTION
[Features From Templates] The Coast-to-EEZ template shapefile was copied and projected to NAD83 Mercator Projection. The coordinates of the Regulated Area definition were transferred to a spreadsheet, converted to Decimal Degrees, plotted as a point shapefile in NAD83, and then projected to NAD83 Mercator Projection. 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 the Coastline or EEZ, the coinciding outward extent of the template polygon was used. 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. 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 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** 2013

**PROCESS STEP**
**PROCESS DESCRIPTION**
[Add Attributes] The standardized attribute schema was applied to the shapefile, and the fields were defined.
**PROCESS DATE** 2013

**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** 2014

**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** 2014

**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** 2014

**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** 2014

**PROCESS STEP**
**PROCESS DESCRIPTION**
[Publication] The shapefile, with accompanying metadata, was uploaded for public download on the NOAA NMFS GARFO GIS website.
**PROCESS DATE** 2014-05-01

**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**  
**Type Label**: Regulated Area  
**Type Definition**: NMFS Regulated Areas in Northeast and Mid-Atlantic Waters  
**Type Definition Source**: GARFO

**Attributes**

<table>
<thead>
<tr>
<th>Attribute Label</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FID</strong></td>
<td>Internal feature number</td>
</tr>
<tr>
<td><strong>Shape</strong></td>
<td>Feature geometry</td>
</tr>
<tr>
<td><strong>GARFO_ID</strong></td>
<td>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)</td>
</tr>
<tr>
<td><strong>AREANAME</strong></td>
<td>Official name of the Regulated Area, usually the area name as printed in the CFR</td>
</tr>
<tr>
<td><strong>COMMNAME</strong></td>
<td>Most commonly used name. May be identical to AREANAME, an abbreviation of AREANAME, or a different name altogether.</td>
</tr>
</tbody>
</table>
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: UNREPRESENTABLE DOMAIN
Free text citation
ATTRIBUTE
ATTRIBUTE LABEL  CFRSUBTXT
ATTRIBUTE DEFINITION  CFR Subpart citation header text
ATTRIBUTE DEFINITION SOURCE  GARFO
ATTRIBUTE DOMAIN VALUES  UNREPRESENTABLE DOMAIN
Free text name

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 name

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 name

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 UNREPRESENTABLE DOMAIN
Date

ATTRIBUTE
ATTRIBUTE LABEL EFFECTDATE
ATTRIBUTE DEFINITION
Date Regulated Area officially became law, or most recent modification
ATTRIBUTE DEFINITION SOURCE GARFO
ATTRIBUTE DOMAIN VALUES UNREPRESENTABLE DOMAIN
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 UNREPRESENTABLE DOMAIN
Free text citation

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

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

**ATTRIBUTE LABEL**  CREATED
**ATTRIBUTE DEFINITION**
Creation date of the GIS feature
**ATTRIBUTE DEFINITION SOURCE**  GARFO

**ATTRIBUTE**

**ATTRIBUTE LABEL**  AREANOTES
**ATTRIBUTE DEFINITION**
Miscellaneous notes regarding the Regulated Area or feature
**ATTRIBUTE DEFINITION SOURCE**  GARFO

**OVERVIEW DESCRIPTION**

**ENTITY AND ATTRIBUTE OVERVIEW**
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.

**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 ▶**

**DISTRIBUTOR**

**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

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**CITY**  Gloucester

**STATE OR PROVINCE**  MA

**POSTAL CODE**  01930

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**CONTACT FAX TELEPHONE**  978-281-9333

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**CONTACT INSTRUCTIONS**
http://www.nero.noaa.gov/

**RESOURCE DESCRIPTION**  Downloadable Data

**DISTRIBUTION LIABILITY**
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**Metadata Reference**

**METADATA DATE** 2014-05-01  
**METADATA FUTURE REVIEW DATE** 2018-05-01  
**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.nero.noaa.gov/  

**METADATA STANDARD NAME** FGDC Content Standard for Digital Geospatial Metadata  
**METADATA STANDARD VERSION** FGDC-STD-001-1998