Massachusetts Bay Management Area

Identification

CITATION
CITATION INFORMATION
ORIGINATOR NOAA Fisheries Greater Atlantic Regional Fisheries Office
PUBLICATION DATE 2014-09-15
TITLE Massachusetts Bay Management Area
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 Massachusetts Bay Management Area 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:
- Massachusetts Bay Management Area

Because GIS projection and topology functions can change or generalize coordinates, these GIS files are considered to be approximate representations and are NOT an OFICIAL 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 2014-09-15
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
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 Atlantic
Theme Keyword EEZ
Theme Keyword Exclusive Economic Zone
Theme Keyword GARFO
Theme Keyword Greater Atlantic Regional Fisheries Office
Theme Keyword Harbor Porpoise Take Reduction Plan
Theme Keyword HPTRP
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 Cape Cod Bay
Place Keyword Greater Atlantic Region
Place Keyword Gulf of Maine
Place Keyword New England
Place Keyword United States
Place Keyword US EEZ
Place Keyword US Exclusive Economic Zone

Access Constraints
None.
Use Constraints
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*** 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 

Ellen Keane
CONTACT ORGANIZATION  NOAA Fisheries Service Greater Atlantic Regional Fisheries Office, Protected Resources Division
CONTACT POSITION  GIS Committee Protected Resources Representative
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CITY  Gloucester
STATE OR PROVINCE  MA
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CONTACT INSTRUCTIONS
http://www.greateratlantic.fisheries.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  2014-05-13
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
Spatial definitions for Regulated Area boundaries.

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.

NOAA's Medium Resolution Digital Vector Shoreline (1998) for the Contiguous United States

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.

US EEZ

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.
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** 2014

**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 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 unprojected NAD83 coordinate system.

PROCESS DATE 2014

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

PROCESS DATE 2014

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 2014-09-15

Spatial Reference ►

HORIZONTAL COORDINATE SYSTEM DEFINITION 
GEOREGRAPHIC

LATITUDE RESOLUTION 0.000001
LONGITUDE RESOLUTION 0.000001
GEOREGRAPHIC 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


**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
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.

<table>
<thead>
<tr>
<th>ATTRIBUTE DEFINITION SOURCE</th>
<th>GARFO</th>
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<tr>
<td>ATTRIBUTE DOMAIN VALUES</td>
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<td>UNREPRESENTABLE DOMAIN</td>
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<tr>
<td>Date</td>
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**ATTRIBUTE**
**ATTRIBUTE LABEL** EFFECTDATE
**ATTRIBUTE DEFINITION**
Date Regulated Area officially became law, or most recent modification

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<tbody>
<tr>
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<td>UNREPRESENTABLE DOMAIN</td>
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<tr>
<td>Date</td>
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</table>

**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.

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<tr>
<th>ATTRIBUTE DEFINITION SOURCE</th>
<th>GARFO</th>
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<td>Free text citation</td>
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**ATTRIBUTE**
**ATTRIBUTE LABEL** RECURST
**ATTRIBUTE DEFINITION**
Annually recurring date Regulated Area becomes active

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**ATTRIBUTE**
**ATTRIBUTE LABEL** RECUREND
**ATTRIBUTE DEFINITION**
Annually recurring date Regulated Area becomes inactive

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<td>Date</td>
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**ATTRIBUTE**
**ATTRIBUTE LABEL** GISAUTHOR
**ATTRIBUTE DEFINITION**
Name of the NOAA staff person who created the GIS feature

<table>
<thead>
<tr>
<th>ATTRIBUTE DEFINITION SOURCE</th>
<th>GARFO</th>
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<tr>
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<tr>
<td>UNREPRESENTABLE DOMAIN</td>
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<tr>
<td>Name</td>
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</table>

**ATTRIBUTE**
**ATTRIBUTE LABEL** CREATED
**ATTRIBUTE DEFINITION**

**Creation date of the GIS feature**

**ATTRIBUTE DEFINITION SOURCE** GARFO

**ATTRIBUTE DOMIAN VALUES**

**UNREPRESENTABLE DOMAIN**

**Date**

**ATTRIBUTE**

**ATTRIBUTE LABEL** AREANOTES

**ATTRIBUTE DEFINITION**

Miscellaneous notes regarding the Regulated Area or feature

**ATTRIBUTE DEFINITION SOURCE** GARFO

**ATTRIBUTE DOMIAN VALUES**

**UNREPRESENTABLE DOMAIN**

Free text description

**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.

**ENTITY AND ATTRIBUTE DETAIL CITATION**

FILES_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

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**CITY** Gloucester

**STATE OR PROVINCE** MA

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**CONTACT INSTRUCTIONS**

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

**RESOURCE DESCRIPTION** Downloadable Data

**DISTRIBUTION LIABILITY**

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incidental, consequential, special or exemplary damages, or lost profit resulting from any use or misuse of this data

**Metadata Reference**

**Metadata Date** 2014-09-15  
**Metadata Future Review Date** 2018-09-15  
**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  
**Contact Address**  
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**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