Atlantic Mackerel, Squid, Butterfish (MSB) Bottom Trawling Restricted Areas

**Identification**

**CITATION**

**CITATION INFORMATION**

**ORIGINATOR** NOAA Fisheries Greater Atlantic Regional Fisheries Office

**PUBLICATION DATE** 2014-05-01

**TITLE**

Atlantic Mackerel, Squid, Butterfish (MSB) Bottom Trawling Restricted Areas

**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

**DESCRIPTION**

**ABSTRACT**

This dataset depicts the boundaries of the Atlantic Mackerel, Squid, Butterfish (MSB) Bottom Trawling Restricted Areas 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:

- Oceanographer Canyon
- Lydonia Canyon

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**

**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
APPLICATIONS

For further information on marine resource management, visit:
http://www.nationalmarinesharks.org/ 
http://www.coast.noaa.gov/nmfs/ 
http://www.smal.noaa.gov/ 
http://www.nero.noaa.gov/gis/
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

**Contact Address**

**Address Type** mailing and physical address

**Address** 55 Great Republic Drive

**City** Gloucester

**State or Province** MA

**Postal Code** 01930

**Contact Voice Telephone** 978-282-9341

**Contact Facsimile Telephone** 978-281-9135

**Contact Electronic Mail Address** doug.potts@noaa.gov

**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 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**

Department of Commerce (DOC), National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS)

**Publication Date** 2013-11-25

**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 2008
SOURCE CURRENTNESS REFERENCE publication date
SOURCE CITATION ABBREVIATION e-CFR
SOURCE CONTRIBUTION Spatial definitions for Regulated Area boundaries.

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, No Template] The coordinates of the Regulated Area 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, these points were connected 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. 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
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

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 COMMMNAME
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
**CFR Paragraph citation where the Regulated Area is legally defined**

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<th>LABEL</th>
<th>DEFINITION</th>
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<td></td>
<td>CFR Paragraph citation header text</td>
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**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.**

**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.**

**Date Regulated Area officially became law, or most recent modification**

**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.**
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Attribute Label</th>
<th>Definition</th>
<th>Domain Values</th>
<th>Domain Definition</th>
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</thead>
<tbody>
<tr>
<td>RECURST</td>
<td>Annually recurring date Regulated Area becomes active</td>
<td>GARFO</td>
<td>Date</td>
<td>RECUREND</td>
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<tr>
<td>GISAUTHOR</td>
<td>Name of the NOAA staff person who created the GIS feature</td>
<td>GARFO</td>
<td>Name</td>
<td>CREATED</td>
</tr>
<tr>
<td>AREANOTES</td>
<td>Miscellaneous notes regarding the Regulated Area or feature</td>
<td>GARFO</td>
<td>Free text description</td>
<td>AREANOTES</td>
</tr>
</tbody>
</table>

Overview Description

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.

Distribution Information

Distributor
RESOURCE DESCRIPTION  Downloadable Data

DISTRIBUTION LIABILITY
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Metadata Reference ►

METADATA DATE  2014-05-01
METADATA FUTURE REVIEW DATE  2018-05-01
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
CONTACT ADDRESS
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