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
ONLINE LINKAGE  http://www.nero.noaa.gov/

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
SINGLE DATE/TIME
CALENDAR DATE  2014-05-01
CURRENTNESS REFERENCE
Publication date
STATUS  Complete
MAINTENANCE AND UPDATE FREQUENCY  As needed

SPATIAL DOMAIN
BOUNDING COORDINATES
WEST BOUNDING COORDINATE  -80
EAST BOUNDING COORDINATE  -64
### Keywords

**Theme**
- **Theme Keyword** ISO 19115 Topic Category
- **Theme Keyword** boundaries
- **Theme Keyword** environment
- **Theme Keyword** location
- **Theme Keyword** oceans
- **Theme Keyword** planningCadastre

**Theme**
- **Theme Keyword** 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** GARFO Keywords
- **Theme Keyword** Atlantic
- **Theme Keyword** Atlantic Mackerel, Squid, and Butterfish
- **Theme Keyword** EEZ
- **Theme Keyword** Exclusive Economic Zone
- **Theme Keyword** GARFO
- **Theme Keyword** Greater Atlantic Regional Fisheries Office
- **Theme Keyword** MAFMC
- **Theme Keyword** Magnuson-Stevens Act
- **Theme Keyword** Mid-Atlantic Fishery Management Council
- **Theme Keyword** MSA
- **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** None
- **Place Keyword** Atlantic Ocean
- **Place Keyword** Georges Bank
- **Place Keyword** Greater Atlantic Region
- **Place Keyword** New England
- **Place Keyword** Southern 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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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.nero.noaa.gov/gis.

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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**
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

**ADDRESS**
55 Great Republic Drive

**CITY**
Gloucester

**STATE OR PROVINCE**
MA

**POSTAL CODE**
01930

**CONTACT VOICE TELEPHONE**
978-282-9341

**CONTACT FAX 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**
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**
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

**THE ELE CTRONIC 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
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.

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.

The shapefile, with accompanying metadata, was uploaded for public download on the NOAA NMFS GARFO GIS website.

**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**

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

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

**Shape**
- Attribute Label: Shape
- Attribute Definition: Feature geometry
- Attribute Definition Source: ESRI
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  CFRSXNXTXT
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

**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** 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 DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Date

ATTRIBUTE
ATTRIBUTE LABEL   AREANOTES
ATTRIBUTE DEFINITION
Miscellaneous notes regarding the Regulated Area or feature
ATTRIBUTE DEFINITION SOURCE   GARFO
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Free text description

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
CONTACT INFORMATION
CONTACT PERSON PRIMARY
CONTACT PERSON 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/

RESOURCE DESCRIPTION Downloadable Data

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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
CONTACT PERSON 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