

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: HYDRO (Hydrography Lines and Polygons)

Metadata:

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Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: HYDRO (Hydrography Lines and Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains vector lines and polygons representing coastal hydrography used in the creation of the Environmental Sensitivity Index (ESI) for South Florida. It comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the data layers, ESIL (ESI shoreline lines) and ESIP (ESI shoreline polygons), part of the larger South Florida ESI database, for additional shoreline information.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1999

Ending_Date:

2011

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1999 to 2011 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:
Hydrography

Theme:

Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category

Theme_Keyword:
Environmental Monitoring

Place:

Place_Keyword_Thesaurus:
None

Place_Keyword:
South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data

production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks.

Completeness_Report:

These data represent linear and polygonal hydrography for South Florida. See also the ESIL (ESI shoreline lines) and ESIP (ESI shoreline polygons) data layers, part of the larger South Florida ESI database, for additional shoreline information.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The hydrography data set was developed from pre-existing digital data and reflects the positional accuracy of these original data. The horizontal positional accuracy of the 1:24,000 USGS topographic quads should conform to National Map Accuracy Standards at scales of 1:24,000. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2011

Title:

SOUTH FLORIDA SHORELINE LANDWATER

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Other_Citation_Details:

COMPILED FROM: LAND USE LAND COVER SOUTH FLORIDA WATER MANAGEMENT DISTRICT 2004-2005; BENTHIC HABITATS FLORIDA BAY 2004; TORTUGAS BENTHIC 2008; SHORELINE 1:12,000 SCALE FLORIDA 2004.

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2004

Ending_Date:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

MARINE RESOURCE GEOGRAPHIC INFORMATION SYSTEM, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2011

Title:

FWC_IMAGERY_WEB

Geospatial_Data_Presentation_Form:

raster digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Other_Citation_Details:

THIS DATA SET IS COMPRISED OF A VARIETY OF DATES OF IMAGERY. THE PRIMARY DATA SET USED WAS THE 2004 DOQQS.

Online_Linkage:

http://atoll.floridamarine.org/ArcGIS/rest/services/FWC_Imagery_Web/MapServer

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PICTOMETRY INTERNATIONAL CORP.

Publication_Date:

2011

Title:

OBLIQUE AERIAL PHOTOGRAPHY

Geospatial_Data_Presentation_Form:

remote-sensing image

Publication_Information:

Publication_Place:

ROCHESTER, NY

Publisher:

PICTOMETRY INTERNATIONAL CORP.

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RESEARCH PLANNING, INC. (RPI)

Publication_Date:

2010

Title:

OVERFLIGHT OBLIQUE PHOTOGRAPHS

Geospatial_Data_Presentation_Form:

remote-sensing image

Other_Citation_Details:

UNPUBLISHED

Online_Linkage:

<http://esionline.researchplanning.com>

Type_of_Source_Media:

DIGITAL PHOTOGRAPH

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2010

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RESEARCH PLANNING, INC. (RPI)

Publication_Date:

2011

Title:

STUDY AREA BOUNDARY

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Source_Scale_Denominator:

24000

Type_of_Source_Media:

DIGITAL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Publication_Date:

1999

Title:

LAND COVER/ LAND USE 1999 MAPPING PROJECT

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

WEST PALM BEACH, FL

Publisher:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Online_Linkage:

<http://my.sfwmd.gov/gisapps/sfwmdxwebdc/dataview.asp?>

Source_Scale_Denominator:

40000

Type_of_Source_Media:

DIGITAL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1999

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Publication_Date:

2005

Title:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT LAND USE AND COVER 2004-05

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

WEST PALM BEACH, FL

Publisher:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Online_Linkage:

<http://www.sfwmd.gov>

Source_Scale_Denominator:

12000

Type_of_Source_Media:

DIGITAL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2004

Ending_Date:

2005

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_6

Source_Contribution:

HYDRO INFORMATION

*Process_Step:**Process_Description:*

The shoreline was constructed from three data sets: 1) the South Florida shoreline landwater data from Florida Fish and Wildlife Conservation Commission (FWC); 2) Land use/land cover 1999 mapping project data from the South Florida Water Management District (SFWMD); and 3) Land use/land cover 2004-2005 data also from the SFWMD. The data were integrated and visually compared to: 1) fwc_imagery from Marine Resources Geographic Information Systems and FWC; 2) overflight oblique photographs from Research Planning, Inc (RPI); and 3) oblique aerial photography from Pictometry International Corporation at a scale of 1:6,000 or less to determine gross shoreline change. Edits to bay, inlet, and river shoreline were digitized at a scale of 1:3,000. The study area boundary originated from RPI. The above digital and/or hardcopy sources were compiled to create the HYDRO data layer. Depending on the type of source data, four general approaches are used for compiling the data layer: 1) hardcopy maps are digitized at their source scale; 2) digital data layers are evaluated and used "as is" or integrated with the other data sources; 3) overflight classifications are digitized from the scanned and registered hardcopy field maps; and/or 4) classifications are interpreted from oblique GPS-referenced photography or video taken during the overflights. After the initial shoreline classification, these data are edgematched and checked for logical consistency errors. Review maps are plotted at 1:24,000 scale for verification of polygonal and linear attributes. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the HYDRO data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

5733

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

5734

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

7884

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

904046

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Label point

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

7882

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*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:*

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:*

Entity_Type_Label:

HYDRO.AAT

Entity_Type_Definition:

The HYDRO.AAT table contains attribute information for the vector lines representing linear hydrography features in the HYDRO data layer.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

LINE

Attribute_Definition:

Type of geographic feature.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

B

Enumerated_Domain_Value_Definition:

Breakwater

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Extent of Digital Data

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

H

Enumerated_Domain_Value_Definition:

Hydrography

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

S

Enumerated_Domain_Value_Definition:

Shoreline

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links to the SOURCES data table. This identifier indicates the source of a vector line segment.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

HYDRO.PAT

Entity_Type_Definition:

The HYDRO.PAT table contains attribute information for the vector polygons representing polygonal hydrography features in the HYDRO data layer.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

WATER_CODE

Attribute_Definition:

Specifies a polygon as either water or land.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

L

Enumerated_Domain_Value_Definition:

Land

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

W

Enumerated_Domain_Value_Definition:

Water

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 PUBLICATION
Attribute_Definition:
 Additional citation information.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 ONLINE_LINK
Attribute_Definition:
 Online computer resource URL.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 SCALE
Attribute_Definition:
 Description of the source scale.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 TIME_PERIOD
Attribute_Definition:
 Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, relational attribute or data tables are used to store information in the ESI data structure. (See the Browse_Graphic section for links to entity-relationship diagrams, which describe the relationships between the attribute tables in the ESI data structure.) The HYDRO data layer is linked to the data table, SOURCES, using the SOURCE_ID.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Format_Name:*

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)*Metadata_Reference_Information:**Metadata_Date:*

20140617

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: ESIL (ESI Shoreline Types - Lines)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: ESIL (ESI Shoreline Types - Lines)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

The ESIL data set contains vector lines representing the shoreline and coastal habitats of South Florida classified according to the Environmental Sensitivity Index (ESI) classification system. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the ESIP (ESI shoreline polygons) and HYDRO (Hydrography lines and polygons) data layers, part of the larger South Florida ESI database, for additional shoreline information.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1999

Ending_Date:

2011

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1999 to 2011 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:
Shoreline types

Theme:

Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category

Theme_Keyword:
Environmental Monitoring

Place:

Place_Keyword_Thesaurus:
None

Place_Keyword:
South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data

production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks.

Completeness_Report:

These data represent coastal shorelines and habitats classified according to the Environmental Sensitivity Index (ESI) classification system. See also the ESIP (ESI shoreline polygons) and HYDRO (Hydrography lines and polygons) data layers, part of the larger South Florida ESI database, for additional shoreline information.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The spatial location of the ESI shoreline was developed from pre-existing digital sources and reflects the positional accuracy of these original data. The horizontal positional accuracy of the 1:24,000 USGS topographic quads should conform to National Map Accuracy Standards at scales of 1:24,000. The minimum mapping unit (MMU) of the actual shoreline classification segments is estimated at 50 meters where mapping is conducted using 1:24,000 hardcopy fieldmaps. Field verification has shown that the absolute positional accuracy of breaks between shoreline ESI types with a 95-percent error bound is approximately 58 meters. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2011

Title:

SOUTH FLORIDA SHORELINE LANDWATER

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Other_Citation_Details:

COMPILED FROM: LAND USE LAND COVER SOUTH FLORIDA WATER MANAGEMENT DISTRICT 2004-2005; BENTHIC HABITATS FLORIDA BAY 2004; TORTUGAS BENTHIC 2008; SHORELINE 1:12,000 SCALE FLORIDA 2004.

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2004

Ending_Date:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_0

Source_Contribution:
 ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 MARINE RESOURCE GEOGRAPHIC INFORMATION SYSTEM, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
Publication_Date:
 2011
Title:
 FWC_IMAGERY_WEB
Geospatial_Data_Presentation_Form:
 raster digital data
Publication_Information:
Publication_Place:
 ST. PETERSBURG, FL
Publisher:
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
Other_Citation_Details:
 THIS DATA SET IS COMPRISED OF A VARIETY OF DATES OF IMAGERY. THE PRIMARY DATA SET USED WAS THE 2004 DOQQS.
Online_Linkage:
http://atoll.floridamarine.org/ArcGIS/rest/services/FWC_Imagery_Web/MapServer

Type_of_Source_Media:
 ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2011

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_1

Source_Contribution:
 ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 PICTOMETRY INTERNATIONAL CORP.
Publication_Date:
 2011
Title:
 OBLIQUE AERIAL PHOTOGRAPHY
Geospatial_Data_Presentation_Form:
 remote-sensing image
Publication_Information:
Publication_Place:
 ROCHESTER, NY
Publisher:
 PICTOMETRY INTERNATIONAL CORP.

Type_of_Source_Media:
 ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
 Calendar_Date:
 2010
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_2
Source_Contribution:
 ESIL INFORMATION
Source_Information:
 Source_Citation:
 Citation_Information:
 Originator:
 RESEARCH PLANNING, INC. (RPI)
 Publication_Date:
 2010
 Title:
 OVERFLIGHT OBLIQUE PHOTOGRAPHS
 Geospatial_Data_Presentation_Form:
 remote-sensing image
 Other_Citation_Details:
 UNPUBLISHED
 Online_Linkage:
 <http://esionline.researchplanning.com>
 Type_of_Source_Media:
 DIGITAL PHOTOGRAPH
 Source_Time_Period_of_Content:
 Time_Period_Information:
 Single_Date/Time:
 Calendar_Date:
 2010
 Source_Currentness_Reference:
 DATE OF SURVEY
 Source_Citation_Abbreviation:
 Src_3
 Source_Contribution:
 ESIL INFORMATION
Source_Information:
 Source_Citation:
 Citation_Information:
 Originator:
 RESEARCH PLANNING, INC. (RPI)
 Publication_Date:
 2011
 Title:
 STUDY AREA BOUNDARY
 Geospatial_Data_Presentation_Form:
 vector digital data
 Other_Citation_Details:
 UNPUBLISHED
 Source_Scale_Denominator:
 24000
 Type_of_Source_Media:
 DIGITAL
 Source_Time_Period_of_Content:
 Time_Period_Information:
 Single_Date/Time:
 Calendar_Date:
 2011
 Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

ESIL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Publication_Date:

1999

Title:

LAND COVER/ LAND USE 1999 MAPPING PROJECT

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

WEST PALM BEACH, FL

Publisher:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Online_Linkage:

<http://my.sfwmd.gov/gisapps/sfwmdxwebdc/dataview.asp?>

Source_Scale_Denominator:

40000

Type_of_Source_Media:

DIGITAL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1999

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

ESIL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Publication_Date:

2005

Title:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT LAND USE AND COVER 2004-05

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

WEST PALM BEACH, FL

Publisher:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Online_Linkage:

<http://www.sfwmd.gov>

Source_Scale_Denominator:

12000

Type_of_Source_Media:

DIGITAL

*Source_Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:**Beginning_Date:*

2004

Ending_Date:

2005

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_6

Source_Contribution:

ESIL INFORMATION

*Process_Step:**Process_Description:*

Original ESI maps published in 1996 were re-examined and fully updated using the sources and methods described below. The intertidal shoreline habitats of South Florida were mapped and classified via interpretation of a continuous, overlapping set of georeferenced aerial photographs covering the entire study area. These aerial photographs were obtained via a geographic web server from the Marine Resource Geographic Information System and the Florida Fish and Wildlife Commission (FWC). Also used for classification was a continuous, overlapping sets of georeferenced oblique aerial photographs acquired for Monroe and Miami-Dade counties in 2010 during overflights conducted by Research Planning, Inc. (RPI) at elevations of 400-600 feet and slow air speed. All flights were planned to maximize time on site during the 2.5 hours preceding and the 2.5 hours following peak low tide. An additional imagery source for a continuous, overlapping set of georeferenced oblique aerial photographs in Broward County was Pictometry International Corp. of Rochester, New York. Where appropriate, revisions to the existing shoreline were made and, where necessary, multiple habitats were described for each shoreline segment. See the HYDRO metadata for additional source information for the vector lines attributed with the ESI. The above digital and/or hardcopy sources were compiled to create the ESI data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) hardcopy maps are digitized at their source scale; 2) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources; and 3) overflight changes are digitized from the scanned and registered hardcopy field maps or aerial photography. After the initial shoreline classification, these data are edgematched and checked for logical consistency errors. Review maps are plotted at 1:24,000 scale for verification of polygonal and linear attributes. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the ESI data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:
 (206) 526-6329
Contact_Electronic_Mail_Address:
 orr.esi@noaa.gov

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Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method:

Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

11471

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

725501

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

11560

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

ESIL.AAT

Entity_Type_Definition:

The ESIL.AAT table contains attribute information for the vector lines representing linear shoreline features with ESI classification.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ESI

Attribute_Definition:

The item ESI contains values representing the ESI shoreline type. In many cases shorelines are ranked with multiple codes, such as "6B/3A" (listed landward to seaward from left to right). The first code, "6B", is the most landward shoreline type and the second code, "3A", is the shoreline type closest to the water. Singular shoreline types are listed below. No multiple codes are listed, but all multiple codes included in the data set can be assembled from the codes described. The ESI rankings progress from low to high susceptibility to oil spills. To determine the sensitivity of a particular intertidal shoreline habitat, the following factors are integrated: 1) Shoreline type (substrate, grain size, tidal elevation, origin); 2) Exposure to wave and tidal energy; 3) Biological productivity and sensitivity; 4) Ease of cleanup. Prediction of the behavior and persistence of oil in intertidal habitats is based on an understanding of the dynamics of the coastal environments, not just the substrate type and grain size. The intensity of energy expended upon a shoreline by wave action, tidal currents, and river currents directly affects the persistence of stranded oil. The need for shoreline cleanup activities is determined, in part, by the slowness of natural processes in removal of oil stranded on the shoreline. The potential for biological injury, and ease of cleanup of spilled oil are also important factors in the ESI ranking. Generally speaking, areas exposed to high levels of physical energy, such as wave action and tidal currents, and low biological activity rank low on the scale, whereas sheltered areas with associated high biological activity have the highest ranking.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

1A

Enumerated_Domain_Value_Definition:

Exposed Rocky Shores

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

1B

Enumerated_Domain_Value_Definition:

Exposed, Solid Man-made Structures

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

2A

Enumerated_Domain_Value_Definition:

Exposed Wave-cut Platforms in Bedrock, Mud, or Clay

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

2B

Enumerated_Domain_Value_Definition:

Exposed Scarps and Steep Slopes in Clay

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

3A

Enumerated_Domain_Value_Definition:

Fine- to Medium-grained Sand Beaches

- Enumerated_Domain_Value:*
8C
- Enumerated_Domain_Value_Definition:*
Sheltered Riprap
- Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
9A
 - Enumerated_Domain_Value_Definition:*
Sheltered Tidal Flats
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
9B
 - Enumerated_Domain_Value_Definition:*
Vegetated Low Banks
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
9C
 - Enumerated_Domain_Value_Definition:*
Hypersaline Tidal Flats
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
10A
 - Enumerated_Domain_Value_Definition:*
Salt- and Brackish-water Marshes
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
10B
 - Enumerated_Domain_Value_Definition:*
Freshwater Marshes
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
10C
 - Enumerated_Domain_Value_Definition:*
Swamps
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
10D
 - Enumerated_Domain_Value_Definition:*
Scrub-shrub Wetlands

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 U
Enumerated_Domain_Value_Definition:
 Unranked
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute:
Attribute_Label:
 LINE
Attribute_Definition:
 Type of geographic feature.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E
Enumerated_Domain_Value_Definition:
 Extent of Digital Data
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 F
Enumerated_Domain_Value_Definition:
 Flat
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 H
Enumerated_Domain_Value_Definition:
 Hydrography
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 M
Enumerated_Domain_Value_Definition:
 Marsh
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 S
Enumerated_Domain_Value_Definition:
 Shoreline
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute:
Attribute_Label:
 SOURCE_ID

Attribute_Definition:

Source identifier that links to the SOURCES data table. This identifier indicates the source of a vector line segment.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ENVIR

Attribute_Definition:

Type of regional environment.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E

Enumerated_Domain_Value_Definition:

Estuarine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

U

Enumerated_Domain_Value_Definition:

Unclassified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ESI_SOURCE

Attribute_Definition:

Source identifier that links to the SOURCES data table. This identifier indicates the source of the ESI classification of a line segment. Vector features that were not surveyed or do not qualify for an ESI classification have a value of -1.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

-1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

MOST_SENS

Attribute_Definition:

The item MOST_SENS contains values representing the ESI shoreline type. In many cases shorelines are ranked with multiple codes, such as "6B/3A" (listed landward to seaward from left to right). The item MOST_SENS refers to the most sensitive ESI code in cases of double or triple shoreline values (denoted by a '+' after the value), or a single ESI value in other cases. Generally speaking, areas exposed to high levels of physical energy, such as wave action and tidal currents, and low biological activity rank low on the scale, whereas sheltered areas with associated high biological activity have the highest ranking (and are deemed more sensitive). For the "6B/3A" example above, the "6B" ranking is deemed most sensitive and a '+' is added to let the user know this

was a multiple shoreline resulting in a MOST_SENS value of "6B+".

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

1B

Enumerated_Domain_Value_Definition:

Exposed, solid man-made structures

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

2A

Enumerated_Domain_Value_Definition:

Exposed wave-cut platforms in bedrock, mud, or clay

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

3A

Enumerated_Domain_Value_Definition:

Fine- to medium- grained sand beaches

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

3B

Enumerated_Domain_Value_Definition:

Scarps and steep slopes in sand

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

4

Enumerated_Domain_Value_Definition:

Scarps and steep slopes in sand

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

5

Enumerated_Domain_Value_Definition:

Mixed sand and gravel beaches

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

6B

Enumerated_Domain_Value_Definition:

Exposed riprap

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

7

Enumerated_Domain_Value_Definition:

Exposed Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

8A

Enumerated_Domain_Value_Definition:

Sheltered rocky shores and sheltered scarps in bedrock, mud, or clay

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

8B

Enumerated_Domain_Value_Definition:

Sheltered solid man-made structures

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

8C

Enumerated_Domain_Value_Definition:

Sheltered riprap

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

9A

Enumerated_Domain_Value_Definition:

Sheltered Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

9B

Enumerated_Domain_Value_Definition:

Vegetated low banks

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

9C

Enumerated_Domain_Value_Definition:

Hypersaline tidal flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

10A

Enumerated_Domain_Value_Definition:

Salt- and brackish-water marsh

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

10B

Enumerated_Domain_Value_Definition:

Freshwater marsh

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

10C

Enumerated_Domain_Value_Definition:

Swamps

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

10D

Enumerated_Domain_Value_Definition:

Scrub-shrub wetlands; Mangroves

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Enumerated_Domain_Value:

U

Enumerated_Domain_Value_Definition:

Unranked

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ESI_DESC

Attribute_Definition:

The item ESI_DESC contains a text description of the item ESI.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORRES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

In addition to the geographic data layers, relational attribute or data tables are used to store information in the ESI data structure. (See the Browse-Graphic section for links to entity-relationship diagrams, which describe the relationships between the attribute tables in the ESI data structure.) The ESIL data layer is linked to the data table, SOURCES, using SOURCE_ID and ESI_SOURCE.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

[Back To Index](#)*Distribution_Information:**Distributor:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Format_Name:*

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)*Metadata_Reference_Information:**Metadata_Date:*

20140616

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: ESIP (ESI Shoreline Types - Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: ESIP (ESI Shoreline Types - Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

The ESIP data set contains vector polygons representing the shoreline and coastal habitats of South Florida classified according to the Environmental Sensitivity Index (ESI) classification system. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the ESIL (ESI shoreline lines) and HYDRO (Hydrography lines and polygons) data layers, part of the larger South Florida ESI database, for additional shoreline information.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1999

Ending_Date:

2011

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1999 to 2011 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:
Shoreline types

Theme:

Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category

Theme_Keyword:
Environmental Monitoring

Place:

Place_Keyword_Thesaurus:
None

Place_Keyword:
South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data

production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks.

Completeness_Report:

These data represent coastal shorelines and habitats classified according to the Environmental Sensitivity Index (ESI) classification system. See also the ESIL (ESI shoreline lines) and HYDRO (Hydrography lines and polygons) data layers, part of the larger South Florida ESI database, for additional shoreline information.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The spatial location of the ESI shoreline was developed from pre-existing digital sources and reflects the positional accuracy of these original data. The horizontal positional accuracy of the 1:24,000 USGS topographic quads should conform to National Map Accuracy Standards at scales of 1:24,000. The minimum mapping unit (MMU) of the actual shoreline classification segments is estimated at 50 meters where mapping is conducted using 1:24,000 hardcopy fieldmaps. Field verification has shown that the absolute positional accuracy of breaks between shoreline ESI types with a 95-percent error bound is approximately 58 meters. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2011

Title:

SOUTH FLORIDA SHORELINE LANDWATER

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Other_Citation_Details:

COMPILED FROM: LAND USE LAND COVER SOUTH FLORIDA WATER MANAGEMENT DISTRICT 2004-2005; BENTHIC HABITATS FLORIDA BAY 2004; TORTUGAS BENTHIC 2008; SHORELINE 1:12,000 SCALE FLORIDA 2004.

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2004

Ending_Date:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_0
Source_Contribution:
 ESIP INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 MARINE RESOURCE GEOGRAPHIC INFORMATION SYSTEM, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
Publication_Date:
 2011
Title:
 FWC_IMAGERY_WEB
Geospatial_Data_Presentation_Form:
 raster digital data
Publication_Information:
Publication_Place:
 ST. PETERSBURG, FL
Publisher:
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
Other_Citation_Details:
 THIS DATA SET IS COMPRISED OF A VARIETY OF DATES OF IMAGERY. THE PRIMARY DATA SET USED WAS THE 2004 DOQQS.
Online_Linkage:
http://atoll.floridamarine.org/ArcGIS/rest/services/FWC_Imagery_Web/MapServer
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2011
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_1
Source_Contribution:
 ESIP INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 PICTOMETRY INTERNATIONAL CORP.
Publication_Date:
 2011
Title:
 OBLIQUE AERIAL PHOTOGRAPHY
Geospatial_Data_Presentation_Form:
 remote-sensing image
Publication_Information:
Publication_Place:
 ROCHESTER, NY
Publisher:
 PICTOMETRY INTERNATIONAL CORP.
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
 2010
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_2
Source_Contribution:
 ESIP INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 RESEARCH PLANNING, INC. (RPI)
Publication_Date:
 2010
Title:
 OVERFLIGHT OBLIQUE PHOTOGRAPHS
Geospatial_Data_Presentation_Form:
 remote-sensing image
Other_Citation_Details:
 UNPUBLISHED
Online_Linkage:
<http://esionline.researchplanning.com>
Type_of_Source_Media:
 DIGITAL PHOTOGRAPH
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2010
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 Src_3
Source_Contribution:
 ESIP INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 RESEARCH PLANNING, INC. (RPI)
Publication_Date:
 2011
Title:
 STUDY AREA BOUNDARY
Geospatial_Data_Presentation_Form:
 vector digital data
Other_Citation_Details:
 UNPUBLISHED
Source_Scale_Denominator:
 24000
Type_of_Source_Media:
 DIGITAL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2011
Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

ESIP INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Publication_Date:

1999

Title:

LAND COVER/ LAND USE 1999 MAPPING PROJECT

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

WEST PALM BEACH, FL

Publisher:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Online_Linkage:

<http://my.sfwmd.gov/gisapps/sfwmdxwebdc/dataview.asp?>

Source_Scale_Denominator:

40000

Type_of_Source_Media:

DIGITAL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1999

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

ESIP INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Publication_Date:

2005

Title:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT LAND USE AND COVER 2004-05

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

WEST PALM BEACH, FL

Publisher:

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

Online_Linkage:

<http://www.sfwmd.gov>

Source_Scale_Denominator:

12000

Type_of_Source_Media:

DIGITAL

*Source_Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:**Beginning_Date:*

2004

Ending_Date:

2005

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_6

Source_Contribution:

ESIP INFORMATION

*Process_Step:**Process_Description:*

Original ESI maps published in 1996 were re-examined and fully updated using the sources and methods described below. The intertidal shoreline habitats of South Florida were mapped and classified via interpretation of a continuous, overlapping sets of georeferenced aerial photographs covering the entire study area. These aerial photographs were obtained via a geographic web server from the Marine Resource Geographic Information System and the Florida Fish and Wildlife Commission (FWC). Also used for classification was a continuous, overlapping set of georeferenced oblique aerial photographs acquired for Monroe and Miami-Dade counties in 2010 during overflights conducted by Research Planning, Inc. (RPI) at elevations of 400-600 feet and slow air speed. All flights were planned to maximize time on site during the 2.5 hours preceding and the 2.5 hours following peak low tide. An additional imagery source for a continuous, overlapping set of georeferenced oblique aerial photographs in Broward County was Pictometry International Corp. of Rochester, New York. Where appropriate, revisions to the existing shoreline were made and, where necessary, multiple habitats were described for each shoreline segment. See the HYDRO metadata for additional source information for the vector lines attributed with the ESI. The above digital and/or hardcopy sources were compiled to create the ESI data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) hardcopy maps are digitized at their source scale; 2) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources; and 3) overflight changes are digitized from the scanned and registered hardcopy field maps or aerial photography. After the initial shoreline classification, these data are edgematched and checked for logical consistency errors. Review maps are plotted at 1:24,000 scale for verification of polygonal and linear attributes. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the ESI data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:
 (206) 526-6329
Contact_Electronic_Mail_Address:
 orr.esi@noaa.gov

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Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method:

Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

GT-polygon composed of chains

Point_and_Vector_Object_Count:

5132

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

5131

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

9606

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

895554

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

8450

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

ESIP.PAT

Entity_Type_Definition:

The ESIP.PAT table contains attribute information for the vector polygons representing polygonal features with ESI classification.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ESI

Attribute_Definition:

The item ESI contains values representing the ESI polygon type.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

7

Enumerated_Domain_Value_Definition:

Exposed Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

9A

Enumerated_Domain_Value_Definition:

Sheltered Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

9C

Enumerated_Domain_Value_Definition:

Hypersaline Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

10A

Enumerated_Domain_Value_Definition:

Salt- and Brackish-water Marshes

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

10B

Enumerated_Domain_Value_Definition:

Freshwater Marshes

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

10C

Enumerated_Domain_Value_Definition:

Swamps

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

10D

Enumerated_Domain_Value_Definition:

Scrub-shrub Wetlands

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

U

Enumerated_Domain_Value_Definition:

Unranked

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

WATER_CODE

Attribute_Definition:

Specifies a polygon as either water or land.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

L

Enumerated_Domain_Value_Definition:

Land

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

W

Enumerated_Domain_Value_Definition:

Water

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ENVIR

Attribute_Definition:

Type of regional environment.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Estuarine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
 U
Enumerated_Domain_Value_Definition:
 Unclassified
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 ESI_SOURCE
Attribute_Definition:
 Source identifier that links to the SOURCES data table. This identifier indicates the source of the ESI classification of a polygon. Polygon features that do not have an associated ESI value are given an ESI_SOURCE value of -1.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 -1
Range_Domain_Maximum:
 N

Detailed_Description:

Entity_Type:
Entity_Type_Label:
 SOURCES
Entity_Type_Definition:
 The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 SOURCE_ID
Attribute_Definition:
 Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 ORIGINATOR
Attribute_Definition:
 Author or developer of source material or data set.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 ONLINE_LINK
Attribute_Definition:
 Online computer resource URL.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 SCALE
Attribute_Definition:
 Description of the source scale.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 TIME_PERIOD
Attribute_Definition:
 Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, relational attribute or data tables are used to store information in the ESI data structure. (See the Browse-Graphic section for links to entity-relationship diagrams, which describe the relationships between the attribute tables in the ESI data structure.) The ESIP data layer is linked to the data table, SOURCES, using SOURCE_ID.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:
 ESI Manager

Contact_Organization:
 NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:
 Physical Address

Address:
 7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Format_Name:*

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)*Metadata_Reference_Information:**Metadata_Date:*

20150211

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: INDEX (Index Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: INDEX (Index Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains vector polygons representing the boundaries of all hardcopy cartographic products produced as

part of the Environmental Sensitivity Index (ESI) for South Florida. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1969

Ending_Date:

1990

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1969 to 1990 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme:

Theme_Keyword_Thesaurus:

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to

collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks.

Completeness_Report:

These data represent the boundaries of all hardcopy cartographic products and digital data extents produced as part of the South Florida ESI atlas.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The index polygons in this data layer were generated in ArcInfo from the coordinates of the USGS 1:24,000 topographic map corners. Some small amount of positional error may be present along the arcs forming the boundaries of these polygons, particularly away from the polygon corners. Some boundaries were developed from pre-existing digital and hardcopy sources and reflect the positional accuracy of these original data. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2003

Title:

ENVIRONMENTAL SENSITIVITY INDEX FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Source_Scale_Denominator:

12000

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1993

Ending_Date:

2003

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

ARSENICKER KEYS, FLA. (1988); BAY KEYS, FLA.(1972); BIG PINE KEY, FLA. (1972); BLACKWATER SOUND, FLA. (1973); BOCA CHICA KEY, FLA. (1971); BOCA RATON, FLA. (1983); BUCHANAN KEYS, FLA. (1972); CALUSA KEYS, FLA. (1972); CARD SOUND, FLA. (1988); CLIVE KEY, FLA. (1972); CONTENT KEYS, FLA. (1972); COTTRELL KEY, FLA. (1972); CRAWL KEY, FLA. (1971); DRY TORTUGAS, FLA. (1971); EAST BAHIA HONDA KEY, FLA. (1972); ELLIOT KEY, FLA. (1988); FLAMINGO, FLA. (1990); FORT LAUDERDALE SOUTH, FLA. (1983); GARDEN COVE, FLA. (1969);

GLADES, FLA. (1988); GRASSY KEY, FLA. (1990); HORSESHOE KEYS, FLA. (1972); JOE BAY, FLA. (1972); KEY BISCAYNE, FLA. (1988); KEY WEST, FLA. (1971); LAKE INGRAHAM EAST, FLA. (1972); LOGGERHEAD KEY, FLA. (1972); LONG KEY, FLA. (1971); LOWER MATECUMBE KEY, FLA. (1971); MADEIRA BAY, FLA. (1972); MARATHON, FLA. (1971); MARQUESAS KEYS EAST, FLA. (1971); MARQUESAS KEYS WEST, FLA. (1971); MIAMI, FLA. (1990); NORTH MIAMI, FLA. (1988); PACIFIC REEF, FLA. (1988); PELICAN KEYS, FLA. (1972); PERRINE, FLA. (1988); PLANTATION KEY, FLA. (1971); POMPANO BEACH, FLA. (1983); PORT EVERGLADES, FLA. (1983); ROCK HARBOR, FLA. (1990); SADDLEBUNCH KEYS, FLA. (1972); SANDY KEY, FLA. (1972); SAWYER KEY, FLA. (1972); SEVENMILE BRIDGE, FLA. (1979); SNIPE KEYS, FLA. (1972); SOLDIER KEY, FLA. (1988); SOUTH MIAMI, FLA. (1988); SUGARLOAF KEY, FLA. (1972); SUMMERLAND KEY, FLA. (1972); TAVERNIER, FLA. (1971); UPPER MATECUMBE KEY, FLA. (1971); WEST LAKE, FLA. (1972);

*Process_Step:**Process_Description:*

Primarily, 1:24,000 USGS topographic maps were used to provide boundaries for cartographic products. In some cases, the polygons represent USGS topographic maps that were re-tiled, moved, or extended to provide better cartographic coverage of the study area.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

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*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

54

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

55

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Complete chain
Point_and_Vector_Object_Count:
 149

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Link
Point_and_Vector_Object_Count:
 149

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Node, planar graph
Point_and_Vector_Object_Count:
 97

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Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution:
 0.0000001
Longitude_Resolution:
 0.0000001
Geographic_Coordinate_Units:
 Decimal degrees
Geodetic_Model:
Horizontal_Datum_Name:
 North American Datum of 1983
Ellipsoid_Name:
 Geodetic Reference System 80
Semi-major_Axis:
 6378137.000000
Denominator_of_Flattening_Ratio:
 298.257222

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
 INDEX.PAT
Entity_Type_Definition:
 The INDEX.PAT table contains attribute information for the vector polygons representing the boundaries of the maps and digital data boundaries used in the creation of the ESI atlas.
Entity_Type_Definition_Source:
 NOAA ESI Guidelines
Attribute:
Attribute_Label:
 TILE-NAME
Attribute_Definition:
 The TILE-NAME contains the map number according to the specified layout of the atlas.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:

1

Range_Domain_Maximum:

54

*Attribute:**Attribute_Label:*

TOPO-NAME

Attribute_Definition:

USGS Topographic map name, short description of location, or atlas name.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

SCALE contains the value of the denominator of the scale at which the map is plotted in the final map product.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

24000

Enumerated_Domain_Value_Definition:

Scale = 1:24,000

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

MAPANGLE

Attribute_Definition:

MAPANGLE contains the value to rotate the final map product so that it is situated straight up and down.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

-1.8310

Range_Domain_Maximum:

-0.5270

Attribute_Units_of_Measure:

Degree

*Attribute:**Attribute_Label:*

PAGESIZE

Attribute_Definition:

PAGESIZE contains the value of the width and height of the map in the final map product.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

11,17

Enumerated_Domain_Value_Definition:

Page size= 11" by 17"

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Overview_Description:**Entity_and_Attribute_Overview:*

In addition to the geographic data layers, relational attribute or data tables are used to store information in the ESI data structure. (See the Browse_Graphic section for links to entity-relationship diagrams, which describe the relationships between the attribute tables in the ESI data structure.) The INDEX data layer does not link to other ESI tables.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

[Back To Index](#)

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name:

Multiple formats

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

http://response.restoration.noaa.gov/esi_download

Fees:

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)

*Metadata_Reference_Information:**Metadata_Date:*

20140616

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: MGT (Management Area Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: MGT (Management Area Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains boundaries of managed properties including: Critical Habitats, Management Areas, Marine Sanctuaries, National Parks, Nature Conservancy lands, Parks, and Wildlife Refuges in [for] South Florida. Vector polygons in this data set represent management areas. Location-specific type and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the data layers MGT_FISH (Fishery Management Area Polygons) and SOCECON (Socioeconomic Resource Points and Lines), part of the larger South Florida ESI database, for additional human-use information.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2001

Ending_Date:

2013

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 2001 to 2013 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Management Areas

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

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Data_Quality_Information:

*Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new IDs are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUM's are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resource at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of digital boundaries for management areas. See also the data layers MGT_FISH (Fishery Management Area Polygons) and SOCECON (Socioeconomic Resource Points and Lines), part of the larger South Florida ESI database, for additional human-use information. These data do not necessarily represent all management areas in South Florida.

*Positional_Accuracy:**Horizontal_Positional_Accuracy:**Horizontal_Positional_Accuracy_Report:*

Spatial components for the human-use data layers can come from expert interviews, hardcopy, or digital sources. Most of the spatial components of the human-use data layers are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Some of the spatial components of the human-use data layers are compiled on hardcopy base maps with a scale of 1:24,000. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

*Lineage:**Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2006

Title:

BISCAYNE BAY/CARD SOUND SPINY LOBSTER SANCTUARY BOUNDARIES

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

ST PETERSBURG, FLORIDA

Publisher:

FWC-FWRI

Online_Linkage:

http://ocean.floridamarine.org/mrgis/Description_Layers_Marine.htm

Source_Scale_Denominator:

12000

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2008

Title:

AQUATIC PRESERVES FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND
WILDLIFE RESEARCH INSTITUTE (FWC-FWRI), FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION (DEP)

Type_of_Source_Media:

FTP SITE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2012

Title:

SPECIAL MANAGEMENT ZONES IN THE SOUTHEAST (SMZ)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

CHARLESTON, SC

Publisher:

NOAA COASTAL SERVICES CENTER

Other_Citation_Details:

ACCESSED SUMMER 2012

Type_of_Source_Media:

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

MGT INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)

Publication_Date:

2011

Title:

OUTSTANDING FLORIDA WATERS

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

TALLAHASSEE, FL

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)

Type_of_Source_Media:

FTP SITE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

MGT INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2011

Title:

MANAGED AREAS FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

TALLAHASSEE, FL

Publisher:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Online_Linkage:<http://www.fnai.org/gisdata.cfm>*Type_of_Source_Media:*

FTP SITE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

MGT INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*NATIONAL MARINE FISHERIES SERVICE (NFMS) NATIONAL COASTAL DATA
DEVELOPMENT CENTER (NCDDC)*Publication_Date:*

1999

Title:

JOHNSON'S SEAGRASS CRITICAL HABITAT

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

STENNIS SPACE CENTER, MS

*Publisher:*NATIONAL MARINE FISHERIES SERVICE (NMFS) NATIONAL COASTAL DATA
DEVELOPMENT CENTER (NCDDC)*Type_of_Source_Media:*

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2003

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

MGT INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA) NATIONAL MARINE
FISHERIES SERVICE (NMFS)*Publication_Date:*

2008

Title:

ACROPORA (ELKHORN/STAGHORN) CRITICAL HABITAT

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:
ST. PETERSBURG, FL

Publisher:
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA) NATIONAL
MARINE FISHERIES SERVICE (NMFS)

Type_of_Source_Media:
ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2008

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_6

Source_Contribution:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA) NATIONAL MARINE
FISHERIES SERVICE (NMFS)

Publication_Date:
2009

Title:
SMALLTOOTH SAWFISH CRITICAL HABITAT

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:
ST. PETERSBURG, FL

Publisher:
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA) NATIONAL
MARINE FISHERIES SERVICE (NMFS)

Online_Linkage:
<http://www.nmfs.noaa.gov/gis/data/critical.htm>

Type_of_Source_Media:
ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_7

Source_Contribution:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA) OCEAN AND
COASTAL RESOURCE MANAGEMENT, NATIONAL MARINE PROTECTED AREAS
CENTER

Publication_Date:
2011

Title:
 MARINE PROTECTED AREAS POLYGON
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 MONTEREY, CA
Publisher:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA) OCEAN AND
 COASTAL RESOURCE MANAGEMENT, NATIONAL MARINE PROTECTED AREAS
 CENTER (MPA)
Type_of_Source_Media:
 FTP SITE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2011
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_8
Source_Contribution:
 MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NATIONAL PARK SERVICE (NPS)
Publication_Date:
 2013
Title:
 EVERGLADES NATIONAL PARK CROCODILE SANCTUARY
Geospatial_Data_Presentation_Form:
 vector digital data
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2013
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_9
Source_Contribution:
 MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NIMMO, K. (NATIONAL PARK SERVICE (NPS))
Publication_Date:
 2012
Title:
 DRY TORTUGAS NATIONAL PARK CLOSED AREAS
Geospatial_Data_Presentation_Form:

spreadsheet
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
 Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_10
Source_Contribution:
 MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 SOUTH FLORIDA ECOLOGICAL SERVICE OFFICE, UNITED STATES FISH AND
 WILDLIFE SERVICE (USFWS)
Publication_Date:
 2003
Title:
 CAPE SABLE SEASIDE SPARROW DESIGNATED CRITICAL HABITAT
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 VERO BEACH, FL
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Online_Linkage:
<http://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B00Q>
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
 Calendar_Date:
 2003
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_11
Source_Contribution:
 MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2001
Title:
 PIPING PLOVER CRITICAL HABITAT
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 FEDERAL REGISTER

Publisher:
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Online_Linkage:
<http://criticalhabitat.fws.gov/>

Type_of_Source_Media:
ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2001

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_12

Source_Contribution:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:
2003

Title:
AMERICAN CROCODILE CRITICAL HABITAT

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:
VERO BEACH, FL

Publisher:
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Online_Linkage:
<http://criticalhabitat.fws.gov/>

Type_of_Source_Media:
ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2003

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_13

Source_Contribution:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:
2003

Title:
MANATEE CRITICAL HABITAT

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:

Publication_Place:
 VERO BEACH, FL
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2003
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_14
Source_Contribution:
 MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2005
Title:
 RICE RAT CRITICAL HABITAT
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 VERO BEACH, FL
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Online_Linkage:
<http://criticalhabitat.fws.gov/>
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2005
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_15
Source_Contribution:
 MGT INFORMATION
Process_Step:
Process_Description:
 Numerous digital coverages were used to depict management areas for this data layer including: a 2008 Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute (FWC-FWRI) Aquatic Preserves Florida data set, a 2011 Florida Department of Environmental Protection (DEP) Outstanding Florida Waters data set, a 2011 Florida Natural Areas Inventory (FNAI) Managed Areas Florida data set, a 2011 NOAA Ocean and Coastal Resource Management (OCRM) Marine Areas Polygon data set, a 2012 National Park Service (NPS) Dry Tortugas National Park Closed Areas data set, a 2006 FWRI Biscayne Bay/Card Sound Spiny Lobster Sanctuary boundaries data set, a 2012 FWRI Special Management Zones in the Southeast data set (SMZ); numerous NOAA National Marine Fisheries Service (NMFS) and U.S. Fish and Wildlife Service (USFWS) Critical Habitat boundary layers for: Acropora (Elkhorn/Staghorn), manatee, Johnson's Seagrass, Smalltooth Sawfish, American Crocodile, Piping Plover, Rice Rat, Cape Sable Seaside Sparrow. The above

digital and/or hardcopy sources were compiled by the project biologist to create the MGT data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the MGT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

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*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

4083

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

4084

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

9736

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

732292

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

8103

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

MGT.PAT

Entity_Type_Definition:

The MGT.PAT table contains attribute information for the vector polygons representing critical habitats, management areas, marine sanctuaries, nature conservancy lands, national parks, parks, and wildlife refuges. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TYPE

Attribute_Definition:

The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations. TYPE can be used as a quick identifier for the managed polygon features. Greater detail about the object is provided in the SOC_DAT table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

CH

Enumerated_Domain_Value_Definition:

Designated Critical Habitat

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MA

Enumerated_Domain_Value_Definition:

Management Area

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MR

Enumerated_Domain_Value_Definition:

Multiple Records - Signifies that multiple types overlap in the polygon

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MS

Enumerated_Domain_Value_Definition:

Marine Sanctuary

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

NC

Enumerated_Domain_Value_Definition:

Nature Conservancy

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

NP

Enumerated_Domain_Value_Definition:

National Park

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

P

Enumerated_Domain_Value_Definition:

Regional or State Park

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

WR

Enumerated_Domain_Value_Definition:

Wildlife Refuge

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (221), element number (11), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2211100002

Range_Domain_Maximum:

2211105947

*Attribute:**Attribute_Label:*

HUNUM

Attribute_Definition:

An identifier that links directly to the SOC_DAT table. HUNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221001294

Range_Domain_Maximum:

221002141

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOC_LUT

Entity_Type_Definition:

The data table SOC_LUT is a lookup table that contains items necessary for linking vector objects in the human-use data layers with the SOC_DAT data table. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

HUNUM

Attribute_Definition:

An identifier that links records in the SOC_LUT data table to records in the SOC_DAT data table. HUNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000679

Range_Domain_Maximum:

221002141

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (221), element number (11), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2211000001

Range_Domain_Maximum:

2211105947

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOC_DAT

Entity_Type_Definition:

The data table SOC_DAT contains both human-use attribute data and items necessary for linking the human-use spatial data layers to the SOURCES data table. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

HUNUM

Attribute_Definition:

An identifier that links records in the SOC_DAT data table to records in the SOC_LUT data table. HUNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000679

Range_Domain_Maximum:

221002141

*Attribute:**Attribute_Label:*

TYPE

Attribute_Definition:

The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

ABANDONED VESSEL

Enumerated_Domain_Value_Definition:

Abandoned Vessel

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

ACCESS

Enumerated_Domain_Value_Definition:

Access

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

AIRPORT

Enumerated_Domain_Value_Definition:
 Airport
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 AQUACULTURE
Enumerated_Domain_Value_Definition:
 Aquaculture
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 ARTIFICIAL REEF
Enumerated_Domain_Value_Definition:
 Artificial Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BEACH
Enumerated_Domain_Value_Definition:
 Beach
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BOAT RAMP
Enumerated_Domain_Value_Definition:
 Boat Ramp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 COAST GUARD
Enumerated_Domain_Value_Definition:
 Coast Guard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 CRITICAL HABITAT
Enumerated_Domain_Value_Definition:
 Designated Critical Habitat
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 FERRY
Enumerated_Domain_Value_Definition:
 Ferry
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HISTORICAL SITE
Enumerated_Domain_Value_Definition:
 Historical Site
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 MANAGEMENT AREA
Enumerated_Domain_Value_Definition:
 Management Area
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 MARINA
Enumerated_Domain_Value_Definition:
 Marina
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 MARINE SANCTUARY
Enumerated_Domain_Value_Definition:
 Marine Sanctuary
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 NATIONAL PARK
Enumerated_Domain_Value_Definition:
 National Park
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 NATURE CONSERVANCY
Enumerated_Domain_Value_Definition:
 Nature Conservancy
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 PARK
Enumerated_Domain_Value_Definition:
 Regional or State Park
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 PORT

Enumerated_Domain_Value_Definition:

Port

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

RECREATIONAL FISHING

Enumerated_Domain_Value_Definition:

Recreational Fishing

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

WATER INTAKE

Enumerated_Domain_Value_Definition:

Water Intake

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

WILDLIFE REFUGE

Enumerated_Domain_Value_Definition:

Wildlife Refuge

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NAME

Attribute_Definition:

The feature name.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

CONTACT

Attribute_Definition:

Contact person or entity.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PHONE

Attribute_Definition:

Contact telephone number.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Any character

Enumerated_Domain_Value_Definition:

Free text

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the SOC_DAT data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

A_SOURCE

Attribute_Definition:

Attribute source identifier that links records in the SOC_DAT data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Overview_Description:

Entity_and_Attribute_Overview:

Three relational attribute or data tables, SOC_DAT, MGT_FISH_DAT, SOURCES, are used to store the complex socioeconomic data in the ESI data structure. The geographic data layer containing socioeconomic data resource information (in this case, MGT) is linked to the Socioeconomic Resources table (SOC_DAT) using the unique ID and the lookup table SOC_LUT, or it can be linked directly using HUNUM. HUNUM is a unique reference number concatenated with the atlas number (for South Florida, the number is 221). ID is a unique combination of the atlas number (221), an element specific number (MGT = 11), and a unique record number. SOC_DAT and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

*Distributor:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Format_Name:*

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)*Metadata_Reference_Information:*

Metadata_Date:

20140616

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: MGT_FISH (Fishery Management Area Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: MGT_FISH (Fishery Management Area Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

*Description:**Abstract:*

This data set contains commercial fisheries in South Florida. Vector polygons in this data set represent statistical reporting grids used to aggregate commercial fishing data. Species-specific landings, catch per unit effort (CPUE), value, fishing seasons, and fishery types are stored in a relational data table designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the data layers Fish (Fish Polygons), MGT (Management Area Polygons), and SOCECON (Socioeconomic Resource Points and Lines), part of the larger South Florida ESI database, for additional fisheries and human-use information.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

*Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:**Beginning_Date:*

1996

Ending_Date:

2010

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1996 to 2010 and are documented in the Lineage section.

*Status:**Progress:*

Complete

Maintenance_and_Update_Frequency:

None Scheduled

*Spatial_Domain:**Bounding_Coordinates:**West_Bounding_Coordinate:*

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

*Keywords:**Theme:**Theme_Keyword_Thesaurus:*

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

*Theme:**Theme_Keyword_Thesaurus:*

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:
Coastal Zone Management

Theme_Keyword:
Wildlife

Theme_Keyword:
Fisheries Management

Theme_Keyword:
Commercial Fisheries

Theme:

Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category

Theme_Keyword:
Environmental Monitoring

Place:

Place_Keyword_Thesaurus:
None

Place_Keyword:
South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:
http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:
JPEG

Browse_Graphic:

Browse_Graphic_File_Name:
http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:
JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks.

Completeness_Report:

These data represent information on commercial landings and fishing seasons based on the marine fisheries management database maintained by Florida Fish and Wildlife Conservation Commission (FWC). Please note that this information is based on fishing information and is meant to portray a socioeconomic dataset and not areas biologically important to a species. The following fisheries are included in this dataset (listed by common name of the fishery): Almaco jack, Ballyhoo, Banded coral shrimp, Beaugregory, Bicolor damselfish, Bigeye scad, Bigeye tuna, Black drum, Black grouper, Blackear wrasse, Blackfin tuna, Blue angelfish, Blue chromis, Blue crab, Blue runner, Blue tang, Bluefish, Bluehead, Brown chromis, Caribbean spiny lobster, Cero, Cherubfish, Clown wrasse, Cobia, Cocoa damselfish, Cottonwick grunt, Creole wrasse, Crevalle jack, Dolphinfish, Dusky damselfish, Dwarf seahorse, Florida pompano, French angelfish, French grunt, Gag, Golden deepsea crab, Gray angelfish, Gray snapper, Great barracuda, Greater amberjack, King mackerel, Lane snapper, Lined seahorse, Little tunny, Longfin damselfish, Lookdown, Mojarra, Mutton snapper, Peppermint shrimp, Pink shrimp, Porkfish, Puddingwife, Purple reefish, Queen angelfish, Red grouper, Rock beauty, Rock shrimp, Royal red shrimp, Sandbar shark, Sergeant major, Sheepshead, Slippery dick, Snowy grouper, Spanish mackerel, Stone crab, Sunshinefish, Swordfish, Threespot damselfish, Tilefish, Tomtate, Tricolor hermit, Triggerfishes, Wahoo, Yellowedge grouper, Yellowfin tuna, Yellowhead jawfish, Yellowhead wrasse, Yellowtail damselfish, Yellowtail reefish, Yellowtail snapper. See also the data layers Fish (Fish Polygons), MGT (Management Area Polygons), and SOCECON (Socioeconomic Resource Points and Lines), part of the larger South Florida ESI database, for additional fisheries and human-use information.

*Positional_Accuracy:**Horizontal_Positional_Accuracy:**Horizontal_Positional_Accuracy_Report:*

Spatial components for the human-use data layers can come from expert interviews, hardcopy, or digital sources. Most of the spatial components of the human-use data layers are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Some of the spatial components of the human-use data layers are compiled on hardcopy base maps with a scale of 1:24,000. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

*Lineage:**Source_Information:**Source_Citation:**Citation_Information:**Originator:*

BROWN, S. (FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))

Publication_Date:

2012

Title:

15-YEAR COMMERCIAL FISHERIES LANDINGS STATISTICS FOR SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2012

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

MGT_FISH INFORMATION

*Process_Step:**Process_Description:*

Boundaries for statistical reporting areas for commercial fisheries were provided by Florida Fish and Wildlife Conservation Commission Florida Wildlife Research Institute (FWC-FWRI). Areas where fishing is prohibited are marked as 'NO HARVEST' for the fish that cannot be caught in each location. These include the Florida Keys National Marine Sanctuary Special Protection Areas (SPAs), Ecological Reserves (ERs) and Research Only Areas for fish, Biscayne Bay Lobster Sanctuary for spiny lobster, and Biscayne Bay National Park for marine life species. Boundaries for these areas can also be found in the ESI management layer, MGT. Closures in the Tortugas Shrimp Sanctuary are not reflected in the fishery layer, but closures occur in the Gulf of Mexico waters. Parts of the shrimp sanctuary are seasonally or permanently closed to shrimp trawling. Average annual landings in pounds, effort in trips, and monetary values in dollars from 1996-2010 were provided by FWC-FWRI for each fishery, by fishery area. Average annual catch-per-unit-effort (CPUE) was calculated by dividing average annual landings by average annual trips. Only commercial fisheries data were included; comparable information on recreational and for-hire fisheries was not readily available. Information on seasonal closures was obtained from Florida Fish and Wildlife Conservation Commission's website. Regulations are current as of January 1, 2013, but could change at any time.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

[Back To Index](#)*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

1741

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

1742

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

3119

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

424061

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

2682

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*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:*

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

MGT_FISH.PAT

Entity_Type_Definition:

The MGT_FISH.PAT table contains attribute information for the vector polygons representing statistical reporting grids used to aggregate commercial fishing data. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram,

which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TYPE

Attribute_Definition:

The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations. TYPE can be used as a quick identifier for the managed polygon features.

Greater detail about the object is provided in the MGT_FISH_DAT table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

CH

Enumerated_Domain_Value_Definition:

Designated Critical Habitat

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MA

Enumerated_Domain_Value_Definition:

Management Area

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MR

Enumerated_Domain_Value_Definition:

Multiple Records - Signifies that multiple types overlap in the polygon

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MS

Enumerated_Domain_Value_Definition:

Marine Sanctuary

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

NC

Enumerated_Domain_Value_Definition:

Nature Conservancy

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

NP

Enumerated_Domain_Value_Definition:

National Park

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 P
Enumerated_Domain_Value_Definition:
 Regional or State Park
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 WR
Enumerated_Domain_Value_Definition:
 Wildlife Refuge
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the fishery management areas data layer to records in the MGT_FISH_LUT lookup table. ID is a concatenation of atlas number (221), element number (11), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2211100002

Range_Domain_Maximum:

2211101742

*Attribute:**Attribute_Label:*

FMANUM

Attribute_Definition:

An identifier that links directly to the MGT_FISH_DAT table. FMANUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000002

Range_Domain_Maximum:

221000046

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

MGT_FISH_LUT

Entity_Type_Definition:

The data table MGT_FISH_LUT is a lookup table that contains items necessary for linking vector objects in the fishery management areas data layer with the MGT_FISH_DAT data table. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

FMANUM

Attribute_Definition:

An identifier that links records in the MGT_FISH_LUT data table to records in the MGT_FISH_DAT data table. FMANUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221000002

Range_Domain_Maximum:

221000046

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the fishery management areas data layer to records in the MGT_FISH_LUT data table. ID is a concatenation of atlas number (221), element number (11), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2211100002

Range_Domain_Maximum:

2211101742

Detailed_Description:

Entity_Type:

Entity_Type_Label:

MGT_FISH_DAT

Entity_Type_Definition:

The data table MGT_FISH_DAT contains both attribute data for fishery management areas and items necessary for linking the fishery management spatial data layers to the SOURCES data table. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

FMANUM

Attribute_Definition:

An identifier that links records in the MGT_FISH_DAT data table to records in the MGT_FISH_LUT data table. FMANUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221000002

Range_Domain_Maximum:

221000046

Attribute:

Attribute_Label:

TYPE

Attribute_Definition:

The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
 ABANDONED VESSEL
Enumerated_Domain_Value_Definition:
 Abandoned Vessel
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 ACCESS
Enumerated_Domain_Value_Definition:
 Access
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 AIRPORT
Enumerated_Domain_Value_Definition:
 Airport
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 AQUACULTURE
Enumerated_Domain_Value_Definition:
 Aquaculture
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 ARTIFICIAL REEF
Enumerated_Domain_Value_Definition:
 Artificial Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BEACH
Enumerated_Domain_Value_Definition:
 Beach
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BOAT RAMP
Enumerated_Domain_Value_Definition:
 Boat Ramp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 COAST GUARD
Enumerated_Domain_Value_Definition:
 Coast Guard

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 CRITICAL HABITAT
Enumerated_Domain_Value_Definition:
 Designated Critical Habitat
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 FERRY
Enumerated_Domain_Value_Definition:
 Ferry
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HISTORICAL SITE
Enumerated_Domain_Value_Definition:
 Historical Site
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 MANAGEMENT AREA
Enumerated_Domain_Value_Definition:
 Management Area
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 MARINA
Enumerated_Domain_Value_Definition:
 Marina
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 MARINE SANCTUARY
Enumerated_Domain_Value_Definition:
 Marine Sanctuary
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 NATIONAL PARK
Enumerated_Domain_Value_Definition:
 National Park
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 NATURE CONSERVANCY
Enumerated_Domain_Value_Definition:
 Nature Conservancy
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 PARK
Enumerated_Domain_Value_Definition:
 Regional or State Park
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 PORT
Enumerated_Domain_Value_Definition:
 Port
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 RECREATIONAL FISHING
Enumerated_Domain_Value_Definition:
 Recreational Fishing
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 WATER INTAKE
Enumerated_Domain_Value_Definition:
 Water Intake
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 WILDLIFE REFUGE
Enumerated_Domain_Value_Definition:
 Wildlife Refuge
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 NAME

Attribute_Definition:
 Name of the fishery. Most names are species-level. There are a few cases where several species are reported under one name (i.e., triggerfishes, mojarras).

Attribute_Definition_Source:
 RPI

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values do not represent a range. See the Logical_Consistency_Report for a complete list of fisheries represented in this dataset.

Attribute:

Attribute_Label:

CPUE

Attribute_Definition:

Average annual catch per unit effort, in pounds per trip, from 1996-2010. Calculated from reported yearly landings in pounds and effort in trips.

Attribute_Definition_Source:

RPI

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

0

Range_Domain_Maximum:

38934.5

*Attribute:**Attribute_Label:*

LANDINGS_POUNDS

Attribute_Definition:

15-year average annual landings, in pounds, from 1996-2010

Attribute_Definition_Source:

RPI

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

0

Range_Domain_Maximum:

3095434.00

*Attribute:**Attribute_Label:*

VALUE_DOLLARS

Attribute_Definition:

Average annual value of the fishery, in dollars, from 1996-2010

Attribute_Definition_Source:

RPI

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

0

Range_Domain_Maximum:

3095434.00

*Attribute:**Attribute_Label:*

CLOSED_SEASON

Attribute_Definition:

Dates for which the fishery is closed, if any. 'NO HARVEST' means that harvest is not allowed for that fishery in the area (see Process_Description, above).

Attribute_Definition_Source:

RPI

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values do not represent a range.

*Attribute:**Attribute_Label:*

HARVEST_TYPE

Attribute_Definition:

Type of fishery.

Attribute_Definition_Source:

RPI

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FOOD/BAIT

Enumerated_Domain_Value_Definition:

Caught for consumption or bait

Enumerated_Domain_Value_Definition_Source:

RPI

Enumerated_Domain_Value:

MARINE LIFE

Enumerated_Domain_Value_Definition:

Collected for the pet trade.

Enumerated_Domain_Value_Definition_Source:

RPI

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the MGT_FISH_DAT data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

A_SOURCE

Attribute_Definition:

Attribute source identifier that links records in the MGT_FISH_DAT data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORRES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:*

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

Three relational attribute or data tables, SOC_DAT, MGT_FISH_DAT, and SOURCES, are used to store the complex socioeconomic data in the ESI data structure. The geographic data layer containing socioeconomic data resource information (in this case, MGT_FISH) is linked to the Management Fish Resources table (MGT_FISH_DAT) using the unique ID and the lookup table MGT_FISH_LUT, or it can be linked directly using FMANUM. FMANUM is a unique reference number concatenated with the atlas number (for South Florida, the number is 221). ID is a unique combination of the atlas number (221), an element specific number (MGT_FISH = 11), and a unique record number. MGT_FISH_DAT and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

[Back To Index](#)*Distribution_Information:**Distributor:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Format_Name:*

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export

files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)

Metadata_Reference_Information:

Metadata_Date:

20140617

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

[Back To Index](#)

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: SOCECON (Socioeconomic Resource Points and Lines)

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: SOCECON (Socioeconomic Resource Points and Lines)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

*Description:**Abstract:*

This data set contains human-use resource data for abandoned vessels, access points, airports, aquaculture sites, beaches, boat ramps, coast guard stations, ferries, historical sites, marinas, parks, ports, recreational fishing, and water intakes in [for] South Florida. Vector points and lines in this data set represent human-use site locations. Location-specific type and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the data layers MGT (Management Area Polygons) and MGT_FISH (Fishery Management Area Polygons), part of the larger South Florida ESI database, for additional human-use information.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

*Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:**Beginning_Date:*

2000

Ending_Date:

2012

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 2000 to 2012 and are documented in the Lineage section.

*Status:**Progress:*

Complete

Maintenance_and_Update_Frequency:

None Scheduled

*Spatial_Domain:**Bounding_Coordinates:**West_Bounding_Coordinate:*

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

*Keywords:**Theme:**Theme_Keyword_Thesaurus:*

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

*Theme:**Theme_Keyword_Thesaurus:*

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Socioeconomic resources

Theme_Keyword:

Human-use resources

Theme:

Theme_Keyword_Thesaurus:

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

Place:

Place_Keyword_Thesaurus:

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new IDs are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUMs are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resource at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of digital data on socioeconomic resources. See also the data layers MGT (Management Area Polygons) and MGT_FISH (Fishery Management Area Polygons), part of the larger South Florida ESI database, for additional human-use information. These data do not necessarily represent all human-use sites in South Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components of the human-use data layers can come from expert interviews, hardcopy, or digital sources. Most of the spatial components of the human-use data layers are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Some of the spatial components of the human-use data layers are compiled on hardcopy base maps with a scale of 1:24,000. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2001

Title:

ESI SOCIO-ECONOMIC POINT FEATURES-WATER INTAKES

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FLORIDA MARINE RESEARCH INSTITUTE (FMRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2009

Title:

BOAT RAMP INVENTORY FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST PETERSBURG, FLORIDA

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND
WILDLIFE CONSERVATION COMMISSION (FWC)

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2009

Title:

FISHING PIERS, JETTIES AND BEACHES FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

100 EIGHTH AVENUE SOUTHEAST, ST. PETERSBURG, FL 33701

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND

WILDLIFE CONSERVATION COMMISSION (FWC)

Type_of_Source_Media:
 FTP SITE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
 Calendar_Date:
 2009

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_2

Source_Contribution:
 SOCECON INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
 CONSERVATION COMMISSION (FWC)

Publication_Date:
 2007

Title:
 UNDERWATER ARCHAEOLOGICAL PRESERVES FLORIDA

Geospatial_Data_Presentation_Form:
 vector digital data

Publication_Information:
Publication_Place:
 100 EIGHTH AVENUE SOUTHEAST, ST. PETERSBURG, FL 33701

Publisher:
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND
 WILDLIFE CONSERVATION COMMISSION (FWC)

Online_Linkage:
<http://dhr.dos.state.fl.us/archaeology/underwater/preserves/>

Type_of_Source_Media:
 FTP SITE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
 Calendar_Date:
 2007

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_3

Source_Contribution:
 SOCECON INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
 CONSERVATION COMMISSION (FWC)

Publication_Date:
 2001

Title:
 ESI SOCIO-ECONOMIC POINT FEATURES-RECREATIONAL BEACH

Geospatial_Data_Presentation_Form:
 vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FLORIDA MARINE RESEARCH INSTITUTE (FMRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2011

Title:

ARTIFICIAL REEFS FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) DIVISION
OF MARINE FISHERIES

Type_of_Source_Media:

FTP SITE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2001

Title:

ESI SOCIO-ECONOMIC POINT FEATURES-AQUACULTURE LOCATIONS

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FLORIDA MARINE RESEARCH INSTITUTE (FMRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_6

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2007

Title:

BEACH ACCESS LOCATIONS

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

FTP SITE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2007

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_7

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC), INFORMATION SCIENCE AND MANAGEMENT,
CENTER FOR SPATIAL ANALYSIS

Publication_Date:

2005

Title:

USCG STATIONS 2005

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

FTP SITE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2005

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_8

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), RESEARCH PLANNING, INC. (RPI)

Publication_Date:

2012

Title:

ESI SOCIO-ECONOMIC POINT FEATURES - WATER INTAKES

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Source_Scale_Denominator:

24000

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_9

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), RESEARCH PLANNING, INC. (RPI)

Publication_Date:
 2012
Title:
 ESI SOCIO-ECONOMIC POINT FEATURES - MARINAS
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 ST. PETERSBURG, FL
Publisher:
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND
 WILDLIFE CONSERVATION COMMISSION (FWC)
Source_Scale_Denominator:
 24000
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2001
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_10
Source_Contribution:
 SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FLORIDA STATE HISTORIC PRESERVATION OFFICE
Publication_Date:
 2011
Title:
 FLORIDA HISTORIC PROPERTIES
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 ST. PETERSBURG, FL
Publisher:
 FLORIDA STATE HISTORIC PRESERVATION OFFICE
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2011
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_11
Source_Contribution:
 SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:

NATIONAL ATLAS OF THE UNITED STATES AND THE UNITED STATES GEOLOGICAL SURVEY

Publication_Date:
2005

Title:
U.S. NATIONAL ATLAS AIRPORTS

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:

REDLANDS, CA

Publisher:
ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE (ESRI)

Type_of_Source_Media:
ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2005

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_12

Source_Contribution:
SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA OFFICE OF COAST SURVEY (OCS)

Publication_Date:
2010

Title:
SHIPWRECKS AND OBSTRUCTIONS COASTAL WATERS SOUTHEAST UNITED STATES

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:

100 EIGHTH AVENUE SOUTHEAST, ST. PETERSBURG, FL 33701

Publisher:
FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Type_of_Source_Media:
FTP SITE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2010

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:
SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION OPERATIONS AND
RESEARCH, VANDERBILT UNIVERSITY*Publication_Date:*

2000

Title:

COMMERCIAL PORTS

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

NEW ORLEANS, LA

Publisher:

U.S. ARMY CORPS OF ENGINEERS (USACE) NAVIGATION DATA CENTER

Type_of_Source_Media:

EMAIL

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2000

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

SOCECON INFORMATION

*Process_Step:**Process_Description:*

The main sources of data used to depict human-use resources for this data layer were digital data sets provided by: Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute (FWC-FWRI), NOAA Office of Coast Survey, and Florida State Historic Preservation Office (SHPO). The above digital and/or hardcopy sources were compiled by the project biologist to create the SOCECON data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the SOCECON data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

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*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

638

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

899

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Entity point

Point_and_Vector_Object_Count:

2155

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

1267

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*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:*

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOCECON.AAT

Entity_Type_Definition:

The SOCECON.AAT table contains attribute information for the vector lines representing roads.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TYPE

Attribute_Definition:

The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations. TYPE can be used as a quick identifier for the socioeconomic or human-use point features and is the attribute that is used to symbolize the layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

R

Enumerated_Domain_Value_Definition:

Road, Transportation, or Bridge

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOCECON.PAT

Entity_Type_Definition:

The SOCECON.PAT table contains attribute information for the vector points representing airports, access areas, aquaculture sites, artificial reefs, abandoned vessels, beaches, boat ramps, Coast Guard stations, ferry staging areas, historical sites, marinas, ports, recreational fishing areas, and water intakes. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TYPE

Attribute_Definition:

The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

A

Enumerated_Domain_Value_Definition:

Airport

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

A2

Enumerated_Domain_Value_Definition:

Access

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 AQ
Enumerated_Domain_Value_Definition:
 Aquaculture
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 AR
Enumerated_Domain_Value_Definition:
 Artificial Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 AV
Enumerated_Domain_Value_Definition:
 Abandoned Vessel
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 B
Enumerated_Domain_Value_Definition:
 Beach
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BR
Enumerated_Domain_Value_Definition:
 Boat Ramp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 CG
Enumerated_Domain_Value_Definition:
 Coast Guard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 F
Enumerated_Domain_Value_Definition:
 Ferry
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 HS
Enumerated_Domain_Value_Definition:
 Historical Site
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 M
Enumerated_Domain_Value_Definition:
 Marina
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 PT
Enumerated_Domain_Value_Definition:
 Port
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 RF
Enumerated_Domain_Value_Definition:
 Recreational Fishing
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 WI
Enumerated_Domain_Value_Definition:
 Water Intake
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 ID
Attribute_Definition:
 An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (221), element number (10), and record number.
Attribute_Definition_Source:
 NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 2211000001
Range_Domain_Maximum:
 2211002155

Attribute:
Attribute_Label:
 HUNUM
Attribute_Definition:
 An identifier that links directly to the SOC_DAT table.
Attribute_Definition_Source:
 NOAA
Attribute_Domain_Values:

*Range_Domain:**Range_Domain_Minimum:*

221000679

Range_Domain_Maximum:

221001893

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOC_LUT

Entity_Type_Definition:

The data table SOC_LUT is a lookup table that contains items necessary for linking vector objects in the human-use data layers with the SOC_DAT data table. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

HUNUM

Attribute_Definition:

An identifier that links records in the SOC_LUT data table to records in the SOC_DAT data table. HUNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000679

Range_Domain_Maximum:

221002141

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (221), element number (10=SOCECON), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2211000001

Range_Domain_Maximum:

2211105947

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOC_DAT

Entity_Type_Definition:

The data table SOC_DAT contains both human-use attribute data and items necessary for linking the human-use spatial data layers to the SOURCES data table. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

HUNUM

Attribute_Definition:

An identifier that links records in the SOC_DAT data table to records in the SOC_LUT data table. HUNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221000679

Range_Domain_Maximum:

221002141

Attribute:

Attribute_Label:

TYPE

Attribute_Definition:

The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

ABANDONED VESSEL

Enumerated_Domain_Value_Definition:

Abandoned Vessel

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

ACCESS

Enumerated_Domain_Value_Definition:

Access

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

AIRPORT

Enumerated_Domain_Value_Definition:

Airport

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

AQUACULTURE

Enumerated_Domain_Value_Definition:

Aquaculture

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

ARTIFICIAL REEF

Enumerated_Domain_Value_Definition:

Artificial Reef

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BEACH

Enumerated_Domain_Value_Definition:
 Beach
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BOAT RAMP
Enumerated_Domain_Value_Definition:
 Boat Ramp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 COAST GUARD
Enumerated_Domain_Value_Definition:
 Coast Guard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 CRITICAL HABITAT
Enumerated_Domain_Value_Definition:
 Designated Critical Habitat
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 FERRY
Enumerated_Domain_Value_Definition:
 Ferry
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HISTORICAL SITE
Enumerated_Domain_Value_Definition:
 Historical Site
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 MANAGEMENT AREA
Enumerated_Domain_Value_Definition:
 Management Area
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 MARINA
Enumerated_Domain_Value_Definition:
 Marina
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
MARINE SANCTUARY
 - Enumerated_Domain_Value_Definition:*
Marine Sanctuary
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
NATIONAL PARK
 - Enumerated_Domain_Value_Definition:*
National Park
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
NATURE CONSERVANCY
 - Enumerated_Domain_Value_Definition:*
Nature Conservancy
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
PARK
 - Enumerated_Domain_Value_Definition:*
Regional or State Park
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
PORT
 - Enumerated_Domain_Value_Definition:*
Port
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
RECREATIONAL FISHING
 - Enumerated_Domain_Value_Definition:*
Recreational Fishing
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
WATER INTAKE
 - Enumerated_Domain_Value_Definition:*
Water Intake
 - Enumerated_Domain_Value_Definition_Source:*
NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
WILDLIFE REFUGE

Enumerated_Domain_Value_Definition:
 Wildlife Refuge
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 NAME
Attribute_Definition:
 The feature name.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 CONTACT
Attribute_Definition:
 Contact person or entity.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 PHONE
Attribute_Definition:
 Contact telephone number.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 Any character
Enumerated_Domain_Value_Definition:
 Free text
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 G_SOURCE
Attribute_Definition:
 Geographic source identifier that links records in the SOC_DAT data table to records in the SOURCES data table.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 A_SOURCE
Attribute_Definition:
 Attribute source identifier that links records in the SOC_DAT data table to records in the SOURCES data table.
Attribute_Definition_Source:
 NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORRES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

Three relational attribute or data tables, SOC_DAT, MGT_FISH_DAT, and SOURCES, are used to store the complex socioeconomic data in the ESI data structure. The geographic data layer containing socioeconomic data resource information (in this case, SOCECON) is linked to the Socioeconomic Resources table (SOC_DAT) using the unique ID and the lookup table SOC_LUT, or it can be linked directly using HUNUM. HUNUM is a unique reference number concatenated with the atlas number (for South Florida, the number is 221). ID is a unique combination of the atlas number (221), an element specific number (SOCECON = 10), and a unique record number. SOC_DAT and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

[Back To Index](#)*Distribution_Information:**Distributor:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Format_Name:*

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)*Metadata_Reference_Information:**Metadata_Date:*

20140616

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: BIRDS (Bird Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: BIRDS (Bird Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains sensitive biological resource data for diving birds, gulls, terns, passerine birds, pelagic birds,

raptors, shorebirds, wading birds, and waterfowl in [for] South Florida. Vector polygons in this data set represent bird nesting, migratory staging, wintering, and foraging/resting sites. Species specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the NESTS (Nest Points) data layer, part of the larger South Florida ESI database, for additional bird information.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1971

Ending_Date:

2013

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1971 to 2013 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Bird

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)

*Data_Quality_Information:**Attribute_Accuracy:*

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary node, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new ID's and RARNUM's or HUNUM's are also generated. The new ID's are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUM's are also modified to include the atlas number, so multiple atlases can be combined and RARNUM's remain unique. RARNUM's are redefined on an element basis, so "resources at risk" groupings will contain only a single element. HUNUM's are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of expert knowledge, survey data, digital maps, published reports, peer-reviewed articles, and digital data on bird nesting, migratory staging, wintering, and foraging/resting sites. See also the NESTS (Nest Points) data layer, part of the larger South Florida ESI database, for additional bird information. These data do not necessarily represent all bird occurrences in South Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 1, Common loon, *Gavia immer*; 5, Horned grebe, *Podiceps auritus*; 8, Double-crested cormorant, *Phalacrocorax auritus*; 33, Red-breasted merganser, *Mergus serrator*; 34, American coot, *Fulica americana*; 38, Herring gull, *Larus argentatus*; 40, Ring-billed gull, *Larus delawarensis*; 54, Great blue heron, *Ardea herodias*; 55, Whimbrel, *Numenius phaeopus*; 56, Spotted sandpiper, *Actitis macularia*; 58, Greater yellowlegs, *Tringa melanoleuca*; 60, Red knot, *Calidris canutus*; 62, Least sandpiper, *Calidris minutilla*; 63, Dunlin, *Calidris alpina*; 64, Short-billed dowitcher, *Limnodromus griseus*; 65, Long-billed dowitcher, *Limnodromus scolopaceus*; 66, Western sandpiper, *Calidris mauri*; 67, Sanderling, *Calidris alba*; 69, Semipalmated plover, *Charadrius semipalmatus*; 70, Killdeer, *Charadrius vociferus*; 71, Black-bellied plover, *Pluvialis squatarola*; 73, Ruddy turnstone, *Arenaria interpres*; 76, Bald eagle, *Haliaeetus leucocephalus*; 77, Osprey, *Pandion haliaetus*; 86, Least tern, *Sternula antillarum*; 87, Little blue heron, *Egretta caerulea*; 88, Great egret, *Ardea alba*; 89, Snowy egret, *Egretta thula*; 90, Black-crowned night-heron, *Nycticorax nycticorax*; 93, Cattle egret, *Bubulcus ibis*; 94, Tricolored heron, *Egretta tricolor*; 95, Roseate tern, *Sterna dougallii*; 97, Green heron, *Butorides virescens*; 98, Laughing gull, *Larus atricilla*; 107, Peregrine falcon, *Falco peregrinus*; 115, White ibis, *Eudocimus albus*; 116, Roseate spoonbill, *Ajaia ajaja*; 117, Great white heron, *Ardea herodias*; 118, Brown pelican, *Pelecanus occidentalis*; 119, Magnificent frigatebird, *Fregata magnificens*; 120, Yellow-crowned night-heron, *Nyctanassa violacea*; 121, Anhinga, *Anhinga anhinga*; 126, Brown noddy, *Anous stolidus*; 127, Sooty tern, *Onychoprion fuscatus*; 128, Masked booby, *Sula dactylatra*; 132, Wood stork, *Mycteria americana*; 133, Black skimmer, *Rynchops niger*; 135, Sandwich tern, *Thalasseus sandvicensis*; 136, Caspian tern, *Hydroprogne caspia*; 137, Royal tern, *Thalasseus maximus*; 138, Forster's tern, *Sterna forsteri*; 139, Snowy plover, *Charadrius alexandrinus*; 142, Black-necked stilt, *Himantopus mexicanus*; 153, Piping plover, *Charadrius melodus*; 154, Wilson's plover, *Charadrius wilsonia*; 155, Willet, *Catoptrophorus semipalmatus*; 156, Semipalmated sandpiper, *Calidris pusilla*; 163, Reddish egret, *Egretta rufescens*; 167, Northern gannet, *Morus bassanus*; 173, American white pelican, *Pelecanus erythrorhynchos*; 179, Pied-billed grebe, *Podilymbus podiceps*; 181, Northern harrier, *Circus cyaneus*; 182, American kestrel, *Falco sparverius*; 190, Blue-winged teal, *Anas discors*; 209, Long-billed curlew, *Numenius americanus*; 210, Marbled godwit, *Limosa fedoa*; 213, Stilt sandpiper, *Calidris himantopus*; 216, Belted kingfisher, *Ceryle alcyon*; 218, Red-shouldered hawk, *Buteo lineatus*; 219, Sharp-shinned hawk, *Accipiter striatus*; 220, Merlin, *Falco columbarius*; 221, Cooper's hawk, *Accipiter cooperii*; 231, Broad-winged hawk, *Buteo platypterus*; 249, Black noddy, *Anous minutus*; 261, Brown booby, *Sula leucogaster*; 277, Seaside sparrow, *Ammodramus maritimus*; 280, Swallow-tailed kite, *Elanoides forficatus*; 283, Bridled tern, *Onychoprion anaethetus*; 294, Cape Sable seaside sparrow, *Ammodramus maritimus mirabilis*; 297, White-crowned pigeon, *Patagioenas leucocephala*; 334, Yellow warbler, *Dendroica petechia*; 354, Short-tailed hawk, *Buteo brachyurus*; 357, Swainson's hawk, *Buteo swainsoni*; 367, American flamingo, *Phoenicopterus ruber*; 393, Lesser black-backed gull, *Larus fuscus*; 420, Mangrove cuckoo, *Coccyzus minor*; 455, Yellow-billed cuckoo, *Coccyzus americanus*; 458, Northern waterthrush, *Seiurus noveboracensis*; 459, Florida burrowing owl, *Athene cunicularia floridana*; 590, Black-and-white warbler, *Mniotilta varia*; 722, Common yellowthroat, *Geothlypis trichas*; 843, White-eyed vireo, *Vireo griseus*; 861, Yellow-throated warbler, *Setophaga dominica*; 862, Prairie warbler, *Setophaga discolor*; 863, Palm

warbler, *Setophaga palmarum*; 1001, Gulls, n/a; 1002, Shorebirds, n/a; 1004, Wading birds, n/a; 1005, Raptors, n/a; 1006, Diving birds, n/a; 1008, Terns, n/a; 1038, Warblers, Parulidae; 1039, Thrushes, n/a.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

2011 INTERNATIONAL WINTER PLOVER CENSUS, UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA ECOLOGICAL SERVICES OFFICE

Publication_Date:

2011

Title:

SOUTH FLORIDA INTERNATIONAL WINTER PLOVER CENSUS 2011

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

VERO BEACH, FL

Publisher:

UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA ECOLOGICAL SERVICES OFFICE

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ALVARADO, M. (EVERGLADES NATIONAL PARK, NATIONAL PARK SERVICE (NPS))

Publication_Date:

2012

Title:

CAPE SABLE SEASIDE SPARROW OCCUPANCY AREA

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
 Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_1

Source_Contribution:
 BIRDS INFORMATION

Source_Information:

Source_Citation:
Citation_Information:
Originator:
 ALVARADO, M. (EVERGLADES NATIONAL PARK, NATIONAL PARK SERVICE (NPS))
Publication_Date:
 2013
Title:
 EVERGLADES WOOD STORK FORAGING DATA
Geospatial_Data_Presentation_Form:
 spreadsheet

Type_of_Source_Media:
 EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 1985
Ending_Date:
 2012

Source_Currentness_Reference:
 DATE OF SURVEY

Source_Citation_Abbreviation:
 Src_2

Source_Contribution:
 BIRDS INFORMATION

Source_Information:

Source_Citation:
Citation_Information:
Originator:
 FLORIDA NATURAL AREAS INVENTORY (FNAI)
Publication_Date:
 2011
Title:
 FLORIDA NATURAL AREAS INVENTORY, FLORIDA ELEMENT OCCURRENCE
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 TALLAHASSEE, FL
Publisher:
 FLORIDA NATURAL AREAS INVENTORY (FNAI)

Type_of_Source_Media:
 EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
 Calendar_Date:

2011

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_3

Source_Contribution:
BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FREZZA, P. (AUDUBON OF FLORIDA)

Publication_Date:

2012

Title:

KEY LARGO-PLANTATION KEY CHRISTMAS BIRD COUNT 2008-2012

Geospatial_Data_Presentation_Form:

spreadsheet

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2008

Ending_Date:

2012

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_4

Source_Contribution:
BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FREZZA, P. (AUDUBON OF FLORIDA)

Publication_Date:

2013

Title:

BIRD DISTRIBUTION AND SEASONALITY IN FLORIDA BAY

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FROHRING, P. C. AND J. A. KUSHLAN

Publication_Date:

1986

Title:

NESTING STATUS AND COLONY SITE VARIABILITY OF LAUGHING GULLS IN SOUTHERN FLORIDA

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

Gainesville, FL

Publisher:

FLORIDA ORNITHOLOGICAL SOCIETY

Other_Citation_Details:

FLORIDA FIELD NATURALIST, 14: 1-17

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1986

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_6

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

LLOYD, J.D. AND K.E. MILLER

Publication_Date:

2011

Title:

ABUNDANCE, POPULATION STATUS, AND BREEDING-SEASON HABITAT REQUIREMENTS OF MANGROVE LANDBIRDS IN SOUTHERN FLORIDA

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

GAINESVILLE, FL

Publisher:

FLORIDA'S NONGAME WILDLIFE GRANTS PROGRAM

Other_Citation_Details:

PROJECT NUMBER: NG07-106 (9250-264-1000)

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_7

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

LORENZ, J. (AUDUBON OF FLORIDA)

Publication_Date:

2013

Title:

DISTRIBUTION AND SEASONALITY OF FLORIDA BAY BIRDS

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_8

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

LOWER FLORIDA KEYS NATIONAL WILDLIFE REFUGES

Publication_Date:

2009

Title:

LOWER FLORIDA KEYS NATIONAL WILDLIFE REFUGES COMPREHENSIVE
CONSERVATION PLAN

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

ATLANTA, GA

Publisher:

UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTHEAST REGION

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_9

Source_Contribution:

BIRDS INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

MAEHR, D. S. AND KALE, H. W. II

Publication_Date:

2009

Title:

FLORIDA'S BIRDS: A FIELD GUIDE AND REFERENCE

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

*Publication_Information:**Publication_Place:*

SARASOTA, FL

Publisher:

PINEAPPLE PRESS

Other_Citation_Details:

359 PP.

Type_of_Source_Media:

BOOK

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_10

Source_Contribution:

BIRDS INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

MIDWINTER WATERFOWL INVENTORY

Publication_Date:

2003

Title:

MID-WINTER WATERFOWL INVENTORY DATA

Geospatial_Data_Presentation_Form:

spreadsheet

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

*Source_Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:**Beginning_Date:*

1971

Ending_Date:

2003

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_11

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS), OFFICE OF RESPONSE AND RESTORATION (OR&R), EMERGENCY RESPONSE DIVISION (ERD)

Publication_Date:

1996

Title:

SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: SOUTH FLORIDA ATLAS

Geospatial_Data_Presentation_Form:

atlas

Publication_Information:

Publication_Place:

SEATTLE, WA

Publisher:

NOAA

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Type_of_Source_Media:

ATLAS HARDCOPY

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1996

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_12

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL PARK SERVICE (NPS)

Publication_Date:

2004

Title:

DRY TORTUGAS NATIONAL PARK BIRD CHECKLIST

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

KEY WEST, FL

Publisher:

DRY TORTUGAS NATIONAL PARK, NATIONAL PARK SERVICE (NPS)

Online_Linkage:

<http://www.nps.gov/drto/planyourvisit/loader.cfm?csModule=security/getfile&PageID=178974>

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2004

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL PARK SERVICE (NPS) MIAMI

Publication_Date:

2012

Title:

BISCAYNE BAY NATIONAL PARK RESOURCES

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL PARK SERVICE (NPS) SOUTH FLORIDA/CARIBBEAN NETWORK

Publication_Date:

2012

Title:

DRY TORTUGAS NATIONAL PARK BIRD COLONIES

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

PALMETTO BAY, FL

Publisher:

NATIONAL PARK SERVICE (NPS) SOUTH FLORIDA/CARIBBEAN NETWORK

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_15

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL PARK SERVICE (NPS), BISCAYNE NATIONAL PARK

Publication_Date:

2012

Title:

BIRDING TIPS, ETHICS, AND WHERE TO BIRD IN BISCAYNE

Geospatial_Data_Presentation_Form:

WEBSITE

Publication_Information:

Publication_Place:

HOMESTEAD, FL

Publisher:

NATIONAL PARK SERVICE (NPS)

Online_Linkage:

<http://www.nps.gov/bisc/naturescience/birding.htm>

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_16

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

OBERHOFER, L. (NATIONAL PARK SERVICE (NPS), EVERGLADES NATIONAL PARK)

Publication_Date:

2012

Title:

BIRD DISTRIBUTION IN EVERGLADES NATIONAL PARK AND FLORIDA BAY

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_17

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
 OBERHOFER, L. (NATIONAL PARK SERVICE (NPS), EVERGLADES NATIONAL PARK)
Publication_Date:
 2013
Title:
 GOOGLE EARTH FILE:BROWN PELICANS AND MAGNIFICENT FRIGATEBIRDS IN THE
 FLORIDA KEYS AND FLORIDA BAY
Geospatial_Data_Presentation_Form:
 map
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2013
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 Src_18
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 PATTERSON, J. (NATIONAL PARK SERVICE/CARIBBEAN NETWORK)
Publication_Date:
 2013
Title:
 EBIRD DATA FOR THE DRY TORTUGAS, EVERGLADES, AND BISCAYNE BAY
 NATIONAL PARKS
Geospatial_Data_Presentation_Form:
 spreadsheet
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2013
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_19
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 PATTERSON, J. (NATIONAL PARK SERVICE/CARIBBEAN NETWORK)
Publication_Date:
 2013
Title:
 NATIONAL PARK SERVICE RESOURCES

Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 paper
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2013
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_20
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 PRANTY, B. (FLORIDA MUSEUM OF NATURAL HISTORY), AUDUBON OF FLORIDA;
 NOSS, R. F. AND S. SINGH, EDS.
Publication_Date:
 2010
Title:
 THE IMPORTANT BIRD AREAS OF FLORIDA
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 GAINESVILLE, FL
Publisher:
 FLORIDA ORNITHOLOGICAL SOCIETY
Other_Citation_Details:
 SPECIAL PUBLICATION NO. 8
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2010
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_21
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2001
Title:
 PIPING PLOVER CRITICAL HABITAT
Geospatial_Data_Presentation_Form:
 vector digital data

Publication_Information:

Publication_Place:

FEDERAL REGISTER

Publisher:

UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Online_Linkage:

<http://criticalhabitat.fws.gov/>

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_22

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2002

Title:

FLORIDA KEYS NATIONAL WILDLIFE REFUGES BIRD LIST

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

BIG PINE KEY, FL

Publisher:

FLORIDA KEYS NATIONAL WILDLIFE REFUGES, UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2002

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_23

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

WILMERS, T. (UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), FLORIDA KEYS NATIONAL WILDLIFE REFUGES)

Publication_Date:

2012

Title:

DISTRIBUTION AND SEASONALITY OF BIRDS AND REPTILES IN SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_24

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ZAMBRANO, R. (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))

Publication_Date:

2012

Title:

DISTRIBUTION AND SEASONALITY OF BIRDS AND REPTILES IN SOUTH FL

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_25

Source_Contribution:

BIRDS INFORMATION

Process_Step:

Process_Description:

Three main sources of data were used to depict bird distribution and seasonality for this data layer: 1) personal interviews with resource experts from Florida Fish and Wildlife Conservation Commission (FWC), Audubon of Florida, National Park Service (NPS) - Everglades National Park, Biscayne Bay National Park, Dry Tortugas National Park, and U.S. Fish and Wildlife Service (USFWS) - Florida Keys National Wildlife Refuges; 2) digital data sets (based on field surveys) provided by: NPS - Everglades National Park and Dry Tortugas National Park and USFWS; and 3) literature provided by Audubon of Florida and NPS. Survey data on locations of breeding, wintering, and resident birds was provided via shapefiles for the following species and species groups in the BIRDS layer (other nest points were included in the NESTS layer): Dry Tortugas National Park breeding colonies, wood stork, Cape Sable seaside sparrow, brown pelican, and magnificent frigatebird. For species and data sets for which concentration information was available, if the data provided contained a single year of count data, that count was displayed in the concentration field. For data sets with multiple years of data the maximum value or most recent year recorded at a site over the months or years surveyed is displayed in the concentration field. USFWS, NPS, Audubon of FL, and FFWCC staff provided additional insight on birds that nest on the Florida Keys and keys within Florida Bay. Bird data collected through Christmas Bird Counts and reported to www.eBird.org were used to depict species utilizing the Dry Tortugas, Florida Bay, and Biscayne Bay. The

above digital and/or hardcopy sources were compiled by the project biologist to create the BIRDS data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the BIRDS data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

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*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

1641

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

1642

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

2606

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

528519

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

2452

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIRDS.PAT

Entity_Type_Definition:

The BIRDS.PAT table contains attribute information for the vector polygons in this data set representing bird nesting, migratory staging, wintering, and foraging/resting sites. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (1), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2210100002

Range_Domain_Maximum:

2210101655

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221000245

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (1), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210100002

Range_Domain_Maximum:

2210708909

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

CONC

Attribute_Definition:

The field CONC refers to "concentration," abundance, or density values, and may contain counts of individuals for each species present at a particular nesting or wintering site, or a term that describes relative abundance of birds at a particular site. The field may contain counts or a range of counts of individuals (XX or XX-XX BIRDS, NESTS, ADULTS, or PAIRS). For species and data sets for which concentration information was available, if the provided data contained a single year of count data, the CONC field displays that count. For data sets with multiple years of data, the CONC field contains either the maximum value or the most recent data recorded at the site over the months or years surveyed. In cases where no quantitative count data were available, the field may either be blank or contain descriptive terms, such as "LOW" or "VERY HIGH" or a concentration approximation, such as "100s." If no concentration information was available from any source, the field was populated with "-". Counts were derived from a variety of surveys, and may range in date (see Lineage).

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORRES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORRES data table to records in the SEASONAL and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

algae

Enumerated_Domain_Value_Definition:

Algae

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

coral

Enumerated_Domain_Value_Definition:

Coral

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

crab

Enumerated_Domain_Value_Definition:

Crab

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diving

Enumerated_Domain_Value_Definition:

Diving bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

dolphin

Enumerated_Domain_Value_Definition:

Dolphin

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

e_nursery

Enumerated_Domain_Value_Definition:

Estuarine nursery fish

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 e_resident
Enumerated_Domain_Value_Definition:
 Estuarine resident fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 echinoderm
Enumerated_Domain_Value_Definition:
 Echinoderm
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 fish
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gastropod
Enumerated_Domain_Value_Definition:
 Gastropod
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gull_tern
Enumerated_Domain_Value_Definition:
 Gull or tern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 hardbottom
Enumerated_Domain_Value_Definition:
 Hardbottom
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 insect
Enumerated_Domain_Value_Definition:
 Insect
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
invert

Enumerated_Domain_Value_Definition:
Invertebrate

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
lizard

Enumerated_Domain_Value_Definition:
Lizard

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
lobster

Enumerated_Domain_Value_Definition:
Lobster

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic

Enumerated_Domain_Value_Definition:
Marine benthic fish

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic

Enumerated_Domain_Value_Definition:
Marine pelagic fish

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee

Enumerated_Domain_Value_Definition:
Manatee

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine

Enumerated_Domain_Value_Definition:
Passerine bird

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
pelagic

Enumerated_Domain_Value_Definition:
Pelagic bird

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 plant
Enumerated_Domain_Value_Definition:
 Plant
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 raptor
Enumerated_Domain_Value_Definition:
 Raptor
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 reef
Enumerated_Domain_Value_Definition:
 Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sav
Enumerated_Domain_Value_Definition:
 Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shorebird
Enumerated_Domain_Value_Definition:
 Shorebird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shrimp
Enumerated_Domain_Value_Definition:
 Shrimp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sm_mammal
Enumerated_Domain_Value_Definition:
 Small mammal
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 snake
Enumerated_Domain_Value_Definition:
 Snake
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 turtle
Enumerated_Domain_Value_Definition:
 Turtle
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 ungulate
Enumerated_Domain_Value_Definition:
 Ungulate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 upland
Enumerated_Domain_Value_Definition:
 Upland vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 wading
Enumerated_Domain_Value_Definition:
 Wading bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 waterfowl
Enumerated_Domain_Value_Definition:
 Waterfowl
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 NHP
Attribute_Definition:
 Natural Heritage Program global ranking.
Attribute_Definition_Source:
 Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
 NHP Global Conservation Status Rank
Codeset_Source:
 Natural Heritage Program

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SEASONAL

Entity_Type_Definition:

The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 SEASON_ID
Attribute_Definition:
 Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 JAN
Attribute_Definition:
 January
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in January
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 FEB
Attribute_Definition:
 February
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in February
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 MAR
Attribute_Definition:
 March
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in March

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

APR

Attribute_Definition:

April

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in April

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAY

Attribute_Definition:

May

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in May

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUN

Attribute_Definition:

June

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in June

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUL

Attribute_Definition:

July

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in July

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

AUG

Attribute_Definition:

August

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in August

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SEP

Attribute_Definition:

September

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in September

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

OCT

Attribute_Definition:

October

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in October

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIORES and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BREED

Entity_Type_Definition:

The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIORES and SEASONAL data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used

for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = interesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

STATE

Attribute_Definition:

Two-letter state abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

COUNTRY

Attribute_Definition:

Three-letter country abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

S

Attribute_Definition:

State threatened or endangered status.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

S_DATE

Attribute_Definition:

Publication date of source material used to assign state status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F_DATE

Attribute_Definition:

Publication date of source material used to assign federal status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE*Attribute_Definition:*

Publication date of source material used to assign international status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORES and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, BIRDS) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables (described in the Detailed_Description sections), except the BREED1-BREED5 and BREED

items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

[Back To Index](#)

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name:

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)*Metadata_Reference_Information:**Metadata_Date:*

20140616

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: NESTS (Nest Points)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: NESTS (Nest Points)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains sensitive biological resource data for diving birds, gulls, terns, passerine birds, pelagic birds,

raptors, shorebirds, wading birds, and waterfowl in [for] South Florida. Vector points in this data set represent bird nesting and wintering sites. Species specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the BIRDS (Bird Polygons) data layer, part of the larger South Florida ESI database, for additional bird information.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1999

Ending_Date:

2013

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1999 to 2013 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Nest

Theme_Keyword:

Bird

Theme:

Theme_Keyword_Thesaurus:

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

Place:

Place_Keyword_Thesaurus:

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new ID's are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUMs are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resource at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of expert knowledge, survey data, digital maps, published reports, peer-reviewed articles, and digital data on bird nesting sites. See also the BIRDS (Bird Polygons) data layer, part of the larger South Florida ESI database, for additional bird information. These data do not necessarily represent all nest occurrences in South Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 8, Double-crested cormorant, *Phalacrocorax auritus*; 54, Great blue heron, *Ardea herodias*; 76, Bald eagle, *Haliaeetus leucocephalus*; 77, Osprey, *Pandion haliaetus*; 79, Cormorant, *Phalacrocorax sp.*; 86, Least tern, *Sternula antillarum*; 87, Little blue heron, *Egretta caerulea*; 88, Great egret, *Ardea alba*; 89, Snowy egret, *Egretta thula*; 93, Cattle egret, *Bubulcus ibis*; 94, Tricolored heron, *Egretta tricolor*; 95, Roseate tern, *Sterna dougallii*; 115, White ibis, *Eudocimus albus*; 116, Roseate spoonbill, *Ajaia ajaja*; 117, Great white heron, *Ardea herodias*; 118, Brown pelican, *Pelecanus occidentalis*; 121, Anhinga, *Anhinga anhinga*; 132, Wood stork, *Mycteria americana*; 154, Wilson's plover, *Charadrius wilsonia*; 163, Reddish egret, *Egretta rufescens*; 283, Bridled tern, *Onychoprion anaethetus*; 1004, Wading birds, n/a.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

2011 INTERNATIONAL WINTER PLOVER CENSUS, UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA ECOLOGICAL SERVICES OFFICE

Publication_Date:

2011

Title:

SOUTH FLORIDA INTERNATIONAL WINTER PLOVER CENSUS 2011

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:
Publication_Place:
VERO BEACH, FL
Publisher:
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA
ECOLOGICAL SERVICES OFFICE

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2011

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_0

Source_Contribution:
NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
BRUSH, J. (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))
Publication_Date:
2013
Title:
ACTIVE BROWN PELICAN COLONIES 2013
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2013

Source_Currentness_Reference:
DATE OF SURVEY

Source_Citation_Abbreviation:
Src_1

Source_Contribution:
NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)
Publication_Date:
1999
Title:
WADING BIRD ROOKERIES 1999
Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:
620 SOUTH MERIDIAN ST. TALLAHASSEE, FL 32344

Publisher:
 FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Type_of_Source_Media:
 ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 1999
Ending_Date:
 1999

Source_Currentness_Reference:
 DATE OF SURVEY

Source_Citation_Abbreviation:
 Src_2

Source_Contribution:
 NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
 CONSERVATION COMMISSION (FWC)

Publication_Date:
 2011

Title:
 BALD EAGLE NESTS FLORIDA 2011

Geospatial_Data_Presentation_Form:
 vector digital data

Other_Citation_Details:
 UNPUBLISHED

Type_of_Source_Media:
 EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2007
Ending_Date:
 2011

Source_Currentness_Reference:
 DATE OF SURVEY

Source_Citation_Abbreviation:
 Src_3

Source_Contribution:
 NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:
 2010

Title:
 BEACH NESTING BIRDS

Geospatial_Data_Presentation_Form:
 vector digital data

Other_Citation_Details:
 UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2005

Ending_Date:

2010

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2012

Title:

BALD EAGLE NESTING TERRITORY DATA

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2011

Ending_Date:

2012

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) - DIVISION OF
HABITAT AND SPECIES CONSERVATION

Publication_Date:

2011

Title:

FLORIDA SHOREBIRD DATABASE

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

LAKELAND, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND
WILDLIFE CONSERVATION COMMISSION (FWC)

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2011

Source_Currentness_Reference:
DATE OF SURVEY

Source_Citation_Abbreviation:
Src_6

Source_Contribution:
NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FREZZA, P. (AUDUBON OF FLORIDA)
Publication_Date:
2013
Title:
BIRD DISTRIBUTION AND SEASONALITY IN FLORIDA BAY
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
PERSONAL COMMUNICATION

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2013

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
Src_7

Source_Contribution:
NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
GREEN, C. (TEXAS STATE UNIVERSITY)
Publication_Date:
2007
Title:
REDDISH EGRET COLONIES
Geospatial_Data_Presentation_Form:
tabular digital data
Publication_Information:
Publication_Place:
SAN MARCOS, TX
Publisher:
TEXAS STATE UNIVERSITY

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:

Calendar_Date:
2007

Source_Currentness_Reference:
DATE OF SURVEY

Source_Citation_Abbreviation:
Src_8

Source_Contribution:
NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
LORENZ, J. (AUDUBON OF FLORIDA)
Publication_Date:
2012
Title:
ROSEATE SPOONBILL COLONIES
Geospatial_Data_Presentation_Form:
tabular digital data
Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2012

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
Src_9

Source_Contribution:
NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
MAEHR, D. S. AND KALE, H. W. II
Publication_Date:
2009
Title:
FLORIDA'S BIRDS: A FIELD GUIDE AND REFERENCE
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Publication_Information:
Publication_Place:
SARASOTA, FL
Publisher:
PINEAPPLE PRESS
Other_Citation_Details:
359 PP.

Type_of_Source_Media:
BOOK

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_10

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL PARK SERVICE (NPS) SOUTH FLORIDA/CARIBBEAN NETWORK

Publication_Date:

2012

Title:

BISCAYNE NATIONAL PARK BIRD COLONIES

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

PALMETTO BAY, FL

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Originator:

OBERHOFER, L. (NATIONAL PARK SERVICE (NPS), EVERGLADES NATIONAL PARK)

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Beginning_Date:

2003

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Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_12

Source_Contribution:
NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
2012
Title:
WOOD STORK COLONIES
Geospatial_Data_Presentation_Form:
vector digital data
Other_Citation_Details:
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Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
2001
Ending_Date:
2012
Source_Currentness_Reference:
DATE OF SURVEY

Source_Citation_Abbreviation:
Src_13

Source_Contribution:
NESTS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ZAMBRANO, R. (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))
Publication_Date:
2012
Title:
DISTRIBUTION AND SEASONALITY OF BIRDS AND REPTILES IN SOUTH FL
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
PERSONAL COMMUNICATION

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2012
Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
Src_14

Source_Contribution:
NESTS INFORMATION

Process_Step:
Process_Description:
Three main sources of data were used to depict bird distribution and seasonality for this data layer: 1) personal interviews with resource experts from Florida Fish and Wildlife Conservation Commission (FWC), Audubon of

Florida, National Park Service (NPS) - Everglades National Park, Biscayne Bay National Park, Dry Tortugas National Park, and U.S. Fish and Wildlife Service (USFWS) - Florida Keys National Wildlife Refuges; 2) digital data sets (based on field surveys) provided by: Audubon of Florida, FWC, Texas State University, NPS - Everglades National Park, Biscayne Bay National Park, Dry Tortugas National Park and USFWS; and 3) literature provided by Audubon of Florida and NPS. Survey data on locations of breeding and wintering birds was provided via shapefiles for the following species and species groups: bald eagle, wading birds, beach nesting birds, reddish egret, roseate spoonbill, Everglades National Park and Biscayne Bay National Park breeding colonies, shorebirds, and wood stork. For species and data sets for which concentration information was available, if the data provided contained a single year of count data, that count was displayed in the concentration field. For data sets with multiple years of data the maximum value or most recent year recorded at a site over the months or years surveyed is displayed in the concentration field. The above digital and/or hardcopy sources were compiled by the project biologist to create the NESTS data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the NESTS data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

Contact_Address:

Address_Type:

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

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Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method:

Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Entity point

Point_and_Vector_Object_Count:

160

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

NESTS.PAT

Entity_Type_Definition:

The NESTS.PAT table contains attribute information for the vector points in this data set representing bird nesting and wintering sites. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (5), and record number.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2210500001

Range_Domain_Maximum:

2210500160

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221000015

Range_Domain_Maximum:

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (5), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210100002

Range_Domain_Maximum:

2210108909

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221000001

Range_Domain_Maximum:

221002634

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

CONC

Attribute_Definition:

The field CONC refers to "concentration," abundance, or density values, and may contain counts of individuals or nests or a term that describes relative abundance of birds at a particular site. The field may contain counts (XX BIRDS or NESTS or PAIRS or ADULTS) or a range of counts (X-XX BIRDS) or a count per range of counts (X-NESTS/-XX-ADULTS). For species and data sets for which concentration information was available, if the data provided contained a single year of count data, that count was displayed in the concentration field. For data sets with multiple years of data, the maximum value or most recent year recorded at a site over the months or years surveyed is displayed in the concentration field. In cases where no quantitative count data was available, the field may contain descriptive terms such as "HIGH" or "LOW". If no concentration information was available from any source, the field was populated with "-". Counts were derived from a variety of surveys, and may range in date (see Lineage).

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORES data table to records in the SPECIES and STATUS data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:
Entity_Type:

Entity_Type_Label:
SPECIES

Entity_Type_Definition:
The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID

Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:
NAME

Attribute_Definition:
Species common name for the entire ESI data set.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
GEN_SPEC

Attribute_Definition:
Species scientific name for the entire ESI data set.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
ELEMENT

Attribute_Definition:
Major categories of biological data.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

algae

Enumerated_Domain_Value_Definition:

Algae

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
alligator
Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
coral
Enumerated_Domain_Value_Definition:
Coral
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
crab
Enumerated_Domain_Value_Definition:
Crab
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
diving
Enumerated_Domain_Value_Definition:
Diving bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
dolphin
Enumerated_Domain_Value_Definition:
Dolphin
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
e_nursery
Enumerated_Domain_Value_Definition:
Estuarine nursery fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
e_resident
Enumerated_Domain_Value_Definition:
Estuarine resident fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
echinoderm

Enumerated_Domain_Value_Definition:
Echinoderm
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
fish
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gastropod
Enumerated_Domain_Value_Definition:
Gastropod
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
hardbottom
Enumerated_Domain_Value_Definition:
Hardbottom
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
insect
Enumerated_Domain_Value_Definition:
Insect
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
lizard
Enumerated_Domain_Value_Definition:
Lizard
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
lobster
Enumerated_Domain_Value_Definition:
Lobster
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
pelagic
Enumerated_Domain_Value_Definition:
Pelagic bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
plant
Enumerated_Domain_Value_Definition:
Plant
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
raptor

Enumerated_Domain_Value_Definition:
Raptor
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
reef
Enumerated_Domain_Value_Definition:
Reef
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sav
Enumerated_Domain_Value_Definition:
Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shorebird
Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
ungulate
Enumerated_Domain_Value_Definition:
Ungulate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
upland
Enumerated_Domain_Value_Definition:
Upland vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:
Waterfowl
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
NHP
Attribute_Definition:
Natural Heritage Program global ranking.
Attribute_Definition_Source:
Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
NHP Global Conservation Status Rank
Codeset_Source:
Natural Heritage Program

Attribute:
Attribute_Label:
DATE_PUB
Attribute_Definition:
Date of NHP listing.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
0
Enumerated_Domain_Value_Definition:
Date unspecified
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:
SEASONAL
Entity_Type_Definition:
The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
JAN
Attribute_Definition:
January
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in January
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
FEB
Attribute_Definition:
February
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in February
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in November
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
DEC
Attribute_Definition:
December
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in December
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIoRES and BREED data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:

Entity_Type:
Entity_Type_Label:
BREED
Entity_Type_Definition:
The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.
Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIoRES and SEASONAL data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MONTH
Attribute_Definition:
Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = interesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal,

or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T

Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
I
Attribute_Definition:
International threatened or endangered status.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
S_DATE
Attribute_Definition:
Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
F_DATE
Attribute_Definition:
Publication date of source material used to assign federal status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I_DATE
Attribute_Definition:
Publication date of source material used to assign international status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORES and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
TITLE
Attribute_Definition:
Title of source material or data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
DATA_FORMAT
Attribute_Definition:
The format of the source material.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
PUB_PLACE
Attribute_Definition:
Publication place.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
PUBLISHER
Attribute_Definition:
Publisher.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
PUBLICATION
Attribute_Definition:
Additional citation information.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, NESTS) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name:

Multiple formats

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

http://response.restoration.noaa.gov/esi_download

Fees:

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

Metadata_Reference_Information:

Metadata_Date:

20140617

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: FISH (Fish Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: FISH (Fish Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains sensitive biological resource data for marine and estuarine fish species in South Florida. Vector

polygons in this data set represent fish distribution, concentration areas, nursery areas and spawning areas. Species specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1972

Ending_Date:

2013

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1972 to 2013 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Fish

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data

production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new IDs are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUMs are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resource at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of expert knowledge, digital data and hardcopy maps. These data do not necessarily represent all fish occurrences in South Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 65, Bluefish, Pomatomus saltatrix; 107, Spotted seatrout, Cynoscion nebulosus; 109, Red drum, Sciaenops ocellatus; 112, Gulf flounder, Paralichthys albigutta; 113, Bay anchovy, Anchoa mitchilli; 116, Striped mullet, Mugil cephalus; 117, Pinfish, Lagodon rhomboides; 119, Silver perch, Bairdiella chrysoura; 122, Black drum, Pogonias cromis; 126, King mackerel, Scomberomorus cavalla; 127, Spanish mackerel, Scomberomorus maculatus; 128, Blue runner, Caranx crysos; 131, Great barracuda, Sphyrna barracuda; 134, Cobia, Rachycentron canadum; 136, Dolphin, Coryphaena hippurus; 137, Sheepshead, Archosargus probatocephalus; 140, Ladyfish, Elops saurus; 141, Common snook, Centropomus undecimalis; 142, Crevalle jack, Caranx hippos; 143, Tarpon, Megalops atlanticus; 268, Silver seatrout, Cynoscion nothus; 272, Rainbow runner, Elagatis bipinnulata; 278, Little tunny, Euthynnus alletteratus; 287, Hardhead catfish, Arius felis; 288, Atlantic tripletail, Lobotes surinamensis; 299, Rainwater killifish, Lucania parva; 303, Permit, Trachinotus falcatus; 306, Gray snapper, Lutjanus griseus; 307, Lane snapper, Lutjanus synagris; 310, Atlantic spadefish, Chaetodipterus faber; 315, Blacktip shark, Carcharhinus limbatus; 317, Bull shark, Carcharhinus leucas; 326, Bonnethead shark, Sphyrna tiburo; 327, Dwarf seahorse, Hippocampus zosterae; 335, Silversides, n/a; 343, Yellow jack, Caranx bartholomaei; 344, Bar jack, Caranx ruber; 345, Spotfin butterflyfish, Chaetodon ocellatus; 347, Round scad, Decapterus punctatus; 350, Tomtate, Haemulon aurolineatum; 351, Slippery dick, Halichoeres bivittatus; 352, Blue angelfish, Holacanthus bermudensis; 356, Greater amberjack, Seriola dumerili; 358, Cocoa damselfish, Stegastes variabilis; 362, Southern stingray, Dasyatis americana; 366, Hogchoker, Trinectes maculatus; 369, Code goby, Gobiosoma robustum; 377, Gulf toadfish, Opsanus beta; 384, Spotted eagle ray, Aetobatus narinari; 389, Nassau grouper, Epinephelus striatus; 412, Mojarras, Eucinostomus spp.; 430, Lookdown, Selene vomer; 433, Gulf pipefish, Syngnathus scovelli; 438, Scalloped hammerhead, Sphyrna lewini; 495, Gray triggerfish, Balistes capriscus; 497, Sergeant major, Abudedefduf saxatilis; 512, Coney, Cephalopholis fulva; 514, Mutton snapper, Lutjanus analis; 515, Yellowtail snapper, Ocyurus chrysurus; 518, Goliath grouper, Epinephelus itajara; 520, White grunt, Haemulon plumierii; 521, Blue marlin, Makaira nigricans; 522, Yellowfin tuna, Thunnus albacares; 523, Swordfish, Xiphias gladius; 525, Bonefish, Albula vulpes; 580, Tarpon snook, Centropomus pectinatus; 598, Anchovies, Anchoa sp.; 611, Lined sole, Achirus lineatus; 612, Speckled worm eel, Myrophis punctatus; 638, Wahoo, Acanthocybium solandri; 719, Hogfish, Lachnolaimus maximus; 720, Ocean surgeon, Acanthurus bahianus; 721, Doctorfish, Acanthurus chirurgus; 722, Blue tang, Acanthurus coeruleus; 724, Cottonwick grunt, Haemulon melanurum; 725, Clown wrasse, Halichoeres maculipinna; 726, Queen angelfish, Holacanthus ciliaris; 727, Rock beauty, Holacanthus tricolor; 729, Mahogany snapper, Lutjanus mahogoni; 732, Bluehead, Thalassoma bifasciatum; 734, Porkfish, Anisotremus virginicus; 736, Swordspine snook, Centropomus ensiferus; 737, Blue chromis, Chromis cyanea; 739, Sharpnose puffer, Canthigaster rostrata; 742, French grunt, Haemulon flavolineatum; 743, Squirrelfish, Holocentrus adscensionis; 748, Yellowtail damselfish, Microspathodon chrysurus; 752, Gray angelfish, Pomacanthus arcuatus; 753, French angelfish, Pomacanthus paru; 754, Blue parrotfish, Scarus coeruleus; 755, Rainbow parrotfish, Scarus guacamaia; 756, Redband parrotfish, Sparisoma aurofrenatum; 757, Stoplight parrotfish, Sparisoma viride; 759, African pompano, Alectis ciliaris; 775, Rock hind, Epinephelus adscensionis; 776, Red grouper, Epinephelus morio; 783, Bluestriped grunt, Haemulon sciurus; 791, Sailfish, Istiophorus platypterus; 797, Blackfin snapper, Lutjanus buccanella; 798, Cubera snapper, Lutjanus cyanopterus; 800, Dog snapper, Lutjanus jocu; 807, Black grouper, Mycteroperca bonaci; 823, Queen parrotfish, Scarus vetula; 826, Cero, Scomberomorus regalis; 835, Blackfin tuna, Thunnus atlanticus; 840, Houndfish, Tylosurus crocodilus crocodilus; 851, Sea bream, Archosargus rhomboidalis; 855, Horse-eye jack, Caranx latus; 864, Bermuda sea

chub, *Kyphosus sectatrix*; 872, Scrawled cowfish, *Acanthostracion quadricornis*; 903, Ocean triggerfish, *Canthidermis sufflamen*; 968, Nurse shark, *Ginglymostoma cirratum*; 972, Schoolmaster, *Lutjanus apodus*; 1001, Blennies, n/a; 1017, Grunts, *Haemulidae*; 1018, Porgies, n/a; 1026, Cardinalfishes, n/a; 1027, Filefishes, n/a; 1031, Moray eels, n/a; 1042, Needlefishes, *Belonidae*; 1045, Scorpionfishes, n/a; 1046, Flying fishes, n/a; 1053, Lizardfishes, n/a; 1088, Lined seahorse, *Hippocampus erectus*; 1130, Dusky shark, *Carcharhinus obscurus*; 1146, Bluefin tuna, *Thunnus thynnus*; 1154, Snowy grouper, *Hyporthodus niveatus*; 1155, Warsaw grouper, *Hyporthodus nigritus*; 1156, Yellowedge grouper, *Hyporthodus flavolimbatus*; 1159, Smalltooth sawfish, *Pristis pectinata*; 1161, Cherubfish, *Centropyge argi*; 1162, Yellowtail reeffish, *Chromis enchrysur*; 1163, Sunshinefish, *Chromis insolata*; 1164, Brown chromis, *Chromis multilineata*; 1165, Purple reeffish, *Chromis scotti*; 1166, Creole wrasse, *Clepticus parrae*; 1168, Yellowhead wrasse, *Halichoeres garnoti*; 1169, Blackear wrasse, *Halichoeres poeyi*; 1170, Puddingwife, *Halichoeres radiatus*; 1171, Ballyhoo, *Hemiramphus* spp.; 1172, Tilefish, *Lopholatilus chamaeleonticeps*; 1173, Yellowhead jawfish, *Opistognathus aurifrons*; 1175, Dusky damselfish, *Stegastes adustus*; 1176, Longfin damselfish, *Stegastes diencaeus*; 1177, Beaugregory, *Stegastes leucostictus*; 1178, Bicolor damselfish, *Stegastes partitus*; 1179, Threespot damselfish, *Stegastes planifrons*; 1180, Banded butterflyfish, *Chaetodon striatus*; 1181, Bucktooth parrotfish, *Sparisoma radians*; 1182, Four-eye butterflyfish, *Chaetodon capistratus*; 1183, Graysby, *Cephalopholis cruentata*; 1184, Midnight parrotfish, *Scarus coelestinus*; 1185, Princess parrotfish, *Scarus taeniopterus*; 1186, Redtail parrotfish, *Sparisoma chrysopterus*; 1187, Reef butterflyfish, *Chaetodon sedentarius*; 1188, Reef croaker, *Odontoscion dentex*; 1189, Sailors choice, *Haemulon parra*; 1190, Sand tilefish, *Malacanthus plumieri*; 1191, Smooth trunkfish, *Rhinesomus triquetter*; 1192, Spanish hogfish, *Bodianus rufus*; 1193, Striped parrotfish, *Scarus iseri*; 1194, Yellowtail parrotfish, *Sparisoma rubripinne*; 1195, Balao, *Hemiramphus balao*; 1196, Bank butterflyfish, *Prognathodes aya*; 1197, Banner goby, *Microgobius microlepis*; 1198, Barred hamlet, *Hypoplectrus puella*; 1199, Batfish, *Ogcocephalus* spp.; 1200, Bearded goby, *Barbulifer ceuthoecus*; 1201, Bluelip parrotfish, *Cryptotomus roseus*; 1202, Bridled goby, *Coryphopterus glaucofraenum*; 1203, Snake eels, *Ophichthidae*; 1204, Chain pipefish, *Syngnathus louisianae*; 1205, Clown goby, *Microgobius gulosus*; 1206, Dusky pipefish, *Syngnathus floridae*; 1207, Fantail mullet, *Mugil trichodon*; 1208, Fat snook, *Centropomus parallelus*; 1209, Fringed pipefish, *Anarchopterus criniger*; 1210, Frogfishes, *Antennariidae*; 1211, Goldspotted killifish, *Floridichthys carpio*; 1212, Hamlets, *Hypoplectrus* spp.; 1213, Key anchovy, *Anchoa cayorum*; 1214, Key blenny, *Starksia starcki*; 1215, Key silverside, *Menidia conchorum*; 1216, Key worm eel, *Ahlia egmontis*; 1217, Lemon shark, *Negaprion brevirostris*; 1218, Longsnout butterflyfish, *Prognathodes aculeatus*; 1219, Mangrove rivulus, *Kryptolebias marmoratus*; 1220, Neon goby, *Elacatinus oceanops*; 1221, Ornamental serranids, n/a; 1222, Speckled hind, *Epinephelus drummondhayi*; 1223, White marlin, *Kajikia albida*; 1224, Wreckfish, *Polyprion americanus*; 1225, Yellowcheek wrasse, *Halichoeres cyanocephalus*; 1226, Masked goby, *Coryphopterus personatus*; 1227, Peacock flounder, *Bothus lunatus*; 1228, Reef shark, *Carcharhinus perezii*; 1229, Ribbonfishes, *Equetus* spp.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ACOSTA A., C. BARTELS, J. COLVOCORESSES, AND M.F.D. GREENWOOD

Publication_Date:

2007

Title:

FISH ASSEMBLAGES IN SEAGRASS HABITATS OF THE FLORIDA KEYS, FLORIDA:
SPATIAL AND TEMPORAL CHARACTERISTICS

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

MIAMI, FLORIDA

Publisher:

ROSENSTIEL SCHOOL OF MARINE & ATMOSPHERIC SCIENCE, UNIVERSITY OF
MIAMI

Other_Citation_Details:

BULLETIN OF MARINE SCIENCE, 81(1):1-19

Type_of_Source_Media:

PAPER

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1999

Ending_Date:

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ACOSTA, A. (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND
WILDLIFE RESEARCH INSTITUTE (FWC-FWRI))

Publication_Date:

2013

Title:

DISTRIBUTION AND ABUNDANCE OF FISH IN THE FLORIDA KEYS

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2013

Ending_Date:

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

AULT J., J. LUO, S.G. SMITH, D.B. MCLELLAN

Publication_Date:

2012

Title:

LARVAL TRANSPORT MODELING TO ASSESS THE REPRODUCTIVE POTENTIAL OF
REEF FISH SPAWNING IN THE TORTUGAS REGION

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

HOMESTEAD, FLORIDA AND TALLAHASSEE, FLORIDA

Publisher:

NATIONAL PARK SERVICE AND FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Other_Citation_Details:

CHAPTER 11 OF 'IMPLEMENTING THE DRY TORTUGAS NATIONAL PARK RESEARCH
NATURAL AREA SCIENCE PLAN: THE 5-YEAR REPORT'

Online_Linkage:

<http://www.nps.gov/ever/naturescience/upload/DRTORNA5YrFINALComplete04092012LoRes.pdf>

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

AULT J.S., S.G. SMITH, J.A. BOHNSACK, J. LUO, D.E. HARPER, D.B. MCLELLAN

Publication_Date:

2006

Title:

BUILDING SUSTAINABLE FISHERIES IN FLORIDA'S CORAL REEF ECOSYSTEM:
POSITIVE SIGNS IN THE DRY TORTUGAS

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

MIAMI, FL

Publisher:

ROSENSTIEL SCHOOL OF MARINE & ATMOSPHERIC SCIENCE, UNIVERSITY OF
MIAMI

Other_Citation_Details:

BULLETIN OF MARINE SCIENCE, 78(3):633-654

Type_of_Source_Media:

PAPER

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
 BARBERA, P.
Publication_Date:
 2012
Title:
 REEF FISH SPAWNING AGGREGATIONS
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2000
Ending_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_4
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 BERKELEY, S.A.
Publication_Date:
 1984
Title:
 FISHERIES ASSESSMENT OF BISCAYNE BAY
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 MIAMI, FL
Publisher:
 FINAL REPORT TO THE DADE COUNTY DEPARTMENT OF ENVIRONMENTAL
 RESEARCH AND MANAGEMENT
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 1984
Ending_Date:
 1984
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_5
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:

Originator:
 BROWN, STEVE (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))
Publication_Date:
 2012
Title:
 SEASONALITY OF PELAGIC FISHES BY DEPTH ZONES BASED ON MARINE FISHERIES
 DATA LANDINGS
Geospatial_Data_Presentation_Form:
 spreadsheet
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_6
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 EKLUND, A.M., D.B. MCLELLAN AND D.E. HARPER
Publication_Date:
 2000
Title:
 BLACK GROUPER AGGREGATIONS IN RELATION TO PROTECTED AREAS WITHIN THE
 FLORIDA KEYS NATIONAL MARINE SANCTUARY
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 MIAMI, FL
Publisher:
 ROSENSTIEL SCHOOL OF MARINE & ATMOSPHERIC SCIENCE, UNIVERSITY OF
 MIAMI
Other_Citation_Details:
 BULLETIN OF MARINE SCIENCE, 66(3):721-728
Type_of_Source_Media:
 PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 1997
Ending_Date:
 1998
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_7
Source_Contribution:
 FISH INFORMATION
Source_Information:

*Source_Citation:**Citation_Information:**Originator:*

FEELEY, M. (NATIONAL PARK SERVICE (NPS) - SOUTH FLORIDA/CARIBBEAN NETWORK)

Publication_Date:

2013

Title:

MARINE ECOLOGY OF SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_8

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FEELEY, M. ET AL.

Publication_Date:

2012

Title:

REGIONAL CONNECTIVITY OF FISHES WITHIN TORTUGAS REGION OF FLORIDA

Geospatial_Data_Presentation_Form:

document

*Publication_Information:**Publication_Place:*

HOMESTEAD, FLORIDA AND TALLAHASSEE, FLORIDA

Publisher:

NATIONAL PARK SERVICE (NPS), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Other_Citation_Details:

CHAPTER 3 OF 'IMPLEMENTING THE DRY TORTUGAS NATIONAL PARK RESEARCH NATURAL AREA SCIENCE PLAN: THE 5-YEAR REPORT'

Online_Linkage:

<http://www.nps.gov/ever/naturescience/upload/DRTORNA5YrFINALComplete04092012LoRes.pdf>

Type_of_Source_Media:

PAPER

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_9

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2012

Title:

SALTWATER FISH CATALOG

Geospatial_Data_Presentation_Form:

document

Online_Linkage:

<http://myfwc.com/wildlifehabitats/profiles/fish/saltwater/>

Type_of_Source_Media:

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_10

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2009

Title:

SEA STATS: BONEFISH

Geospatial_Data_Presentation_Form:

document

*Publication_Information:**Publication_Place:*

ST. PETERSBURG, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION, FISH AND
WILDLIFE RESEARCH INSTITUTE

Online_Linkage:

<http://www.myfwc.com/fishing/saltwater/recreational/bonefish/>

Type_of_Source_Media:

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:**Beginning_Date:*

2009

Ending_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_11

Source_Contribution:
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Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) FINFISH GROUP
Publication_Date:
 2012
Title:
 REEF FISH SPAWNING AGGREGATIONS
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2012
Ending_Date:
 2012
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 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
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Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FLORIDA MUSEUM OF NATURAL HISTORY
Publication_Date:
 2012
Title:
 ICTHYOLOGY DEPARTMENT SPECIES PROFILES
Geospatial_Data_Presentation_Form:
 document
Other_Citation_Details:
 ACCESSED DECEMBER 2012
Online_Linkage:
<http://www.flmnh.ufl.edu/fish/Education/biopofile.htm>
Type_of_Source_Media:
 online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_13
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:

*Citation_Information:**Originator:*

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2001

Title:

KEY BLENNY

Geospatial_Data_Presentation_Form:

document

*Publication_Information:**Publication_Place:*

TALLAHASSEE, FL

Publisher:

FLORIDA NATURAL AREAS INVENTORY

Online_Linkage:http://fwcg.myfwc.com/docs/key_blenney.pdf*Type_of_Source_Media:*

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FROESE, R. AND D. PAULY. EDITORS.

Publication_Date:

2011

Title:

FISHBASE

Geospatial_Data_Presentation_Form:

ONLINE DATABASE

Other_Citation_Details:

ACCESSED SPRING 2012

Online_Linkage:<http://www.fishbase.org>*Type_of_Source_Media:*

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

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Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_15

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:*

Originator:
 GILBERT, C.R. (EDITOR)
Publication_Date:
 1992
Title:
 RARE AND ENDANGERED BIOTA OF FLORIDA, VOLUME II: FISHES
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 GAINESVILLE, FL
Publisher:
 UNIVERSITY PRESS OF FLORIDA
Type_of_Source_Media:
 BOOK
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 1992
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_16
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 GUINDON, K. (FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))
Publication_Date:
 2013
Title:
 LIFE HISTORY OF PERMIT AND TARPON
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2013
Ending_Date:
 2013
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_17
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 HEITHAUS, M. ET AL.

Publication_Date:

2007

Title:

SPATIAL AND TEMPORAL VARIATION IN SHARK COMMUNITIES OF THE LOWER FLORIDA KEYS AND EVIDENCE FOR POPULATION DECLINES

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

CANADA

Publisher:

NRC RESEARCH PRESS

Other_Citation_Details:

CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCE, 64:1302-1313

Type_of_Source_Media:

PAPER

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2001

Ending_Date:

2003

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_18

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HERREMA, D.J., PEERY, B.D., WILLIAMS-WALLS, N., AND WILCOX, J.R.

Publication_Date:

1985

Title:

SPAWNING SEASONS OF COMMON INSHORE FISHES OF THE FLORIDA EAST COAST

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

DAUPHIN ISLAND, AL

Publisher:

MARINE ENVIRONMENTAL SCIENCES CONSORTIUM OF ALABAMA

Other_Citation_Details:

Northeast Gulf Science 7(2):153-155

Type_of_Source_Media:

PAPER

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1985

Ending_Date:

1985

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_19

Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 HUMANN, PAUL
Publication_Date:
 1996
Title:
 REEF FISH IDENTIFICATION: FLORIDA, CARIBBEAN, BAHAMAS
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 JACKSONVILLE, FL
Publisher:
 NEW WORLD PUBLICATIONS, INC.
Type_of_Source_Media:
 paper
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 1996
Ending_Date:
 1996
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_20
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 JOSE I. CASTRO
Publication_Date:
 2011
Title:
 THE SHARKS OF NORTH AMERICA
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Publication_Information:
Publication_Place:
 NEW YORK, NY
Publisher:
 OXFORD UNIVERSITY PRESS
Type_of_Source_Media:
 BOOK
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2011
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_21

Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 KELLISON, T. (NATIONAL MARINE FISHERIES SERVICE (NMFS), SOUTHEAST
 FISHERIES SCIENCE CENTER)
Publication_Date:
 2012
Title:
 REEF FISH SPAWNING AGGREGATIONS IN SOUTH FLORIDA
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_22
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 LINDEMAN, K.C., R. PUGLIESE, G.T. WAUGH AND J.S. AULT
Publication_Date:
 2000
Title:
 DEVELOPMENTAL PATTERNS WITHIN A MULTISPECIES REEF FISHERY:
 MANAGEMENT APPLICATIONS FOR ESSENTIAL FISH HABITATS AND PROTECTED
 AREAS
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 MIAMI, FL
Publisher:
 ROSENSTIEL SCHOOL OF MARINE & ATMOSPHERIC SCIENCE, UNIVERSITY OF
 MIAMI
Other_Citation_Details:
 BULLETIN OF MARINE SCIENCE, 66(3):929-956
Type_of_Source_Media:
 PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2000
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_23
Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

MATHESON, E. (FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))

Publication_Date:

2012

Title:

DISTRIBUTION AND SEASONALITY OF FISH IN SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE BASED ON PUBLISHED LITERATURE

Type_of_Source_Media:

PERSONAL COMMUNICATION

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_24

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

MUNRO, J.L., V.C. GAUT, R. THOMPSON, AND P.H. REESON

Publication_Date:

1972

Title:

THE SPAWNING SEASONS OF CARIBBEAN REEF FISHES

Geospatial_Data_Presentation_Form:

document

*Publication_Information:**Publication_Place:*

United Kingdom

Publisher:

WILEY ONLINE LIBRARY

Other_Citation_Details:

JOURNAL OF FISH BIOLOGY, 5:69-84

Type_of_Source_Media:

paper

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

1972

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_25

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:*

Originator:
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA) NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:
2006

Title:
STATUS REPORT ON THE CONTINENTAL UNITED STATES DISTINCT POPULATIONS SEGMENT OF THE GOLIATH GROUPER (EPINEPHELUS ITAJARA)

Geospatial_Data_Presentation_Form:
document

Publication_Information:

Publication_Place:
ST. PETERSBURG, FL

Publisher:
NATIONAL MARINE FISHERIES SERVICE, SOUTHEAST REGIONAL OFFICE

Online_Linkage:
http://sero.nmfs.noaa.gov/pr/pdf/Final_Status_Report_on_the_Goliath_Grouper.pdf

Type_of_Source_Media:
ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2006

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_26

Source_Contribution:
FISH INFORMATION

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Source_Citation:

Citation_Information:

Originator:
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA) NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:
2009

Title:
SPECKLED HIND SPECIES OF CONCERN FACT SHEET: DETAILED

Geospatial_Data_Presentation_Form:
document

Publication_Information:

Publication_Place:
ST. PETERSBURG, FL

Publisher:
NATIONAL MARINE FISHERIES SERVICE, SOUTHEAST REGIONAL OFFICE

Online_Linkage:
http://sero.nmfs.noaa.gov/pr/pdf/speckledhind_detailed.pdf

Type_of_Source_Media:
ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_27

Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)
Publication_Date:
 2009
Title:
 BLACKTIP SHARK EFH
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NATIONAL MARINE FISHERIES SERVICE
Other_Citation_Details:
 DOWNLOADED SUMMER 2011
Online_Linkage:
<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>
Type_of_Source_Media:
 online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_28
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)
Publication_Date:
 2009
Title:
 BLUE MARLIN EFH
Geospatial_Data_Presentation_Form:
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Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NATIONAL MARINE FISHERIES SERVICE
Other_Citation_Details:
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<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:

Time_Period_Information:
 Single_Date/Time:
 Calendar_Date:
 2009
 Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_29
Source_Contribution:
 FISH INFORMATION
Source_Information:
 Source_Citation:
 Citation_Information:
 Originator:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)
 Publication_Date:
 2009
 Title:
 BLUEFIN TUNA EFH
 Geospatial_Data_Presentation_Form:
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 Publication_Information:
 Publication_Place:
 SILVER SPRING, MD
 Publisher:
 NATIONAL MARINE FISHERIES SERVICE
 Other_Citation_Details:
 DOWNLOADED SUMMER 2011
 Online_Linkage:
 <http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>
 Type_of_Source_Media:
 ONLINE
 Source_Time_Period_of_Content:
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 Single_Date/Time:
 Calendar_Date:
 2009
 Source_Currentness_Reference:
 DATE OF PUBLICATION
 Source_Citation_Abbreviation:
 Src_30
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Source_Information:
 Source_Citation:
 Citation_Information:
 Originator:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)
 Publication_Date:
 2009
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 BONNETHEAD SHARK EFH
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 SILVER SPRING, MD
 Publisher:

NATIONAL MARINE FISHERIES SERVICE

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ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_31

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:

2009

Title:

BULL SHARK EFH

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

SILVER SPRING, MD

Publisher:

NATIONAL MARINE FISHERIES SERVICE

Other_Citation_Details:

DOWNLOADED SUMMER 2011

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ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_32

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:

2009

Title:
 DUSKY SHARK EFH
Geospatial_Data_Presentation_Form:
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Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NATIONAL MARINE FISHERIES SERVICE
Other_Citation_Details:
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Online_Linkage:
<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>

Type_of_Source_Media:
 ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_33

Source_Contribution:
 FISH INFORMATION

Source_Information:

Source_Citation:
Citation_Information:
Originator:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)
Publication_Date:
 2009

Title:
 LEMON SHARK EFH
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NATIONAL MARINE FISHERIES SERVICE
Other_Citation_Details:
 DOWNLOADED SUMMER 2011
Online_Linkage:
<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>

Type_of_Source_Media:
 ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_34

Source_Contribution:
 FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:

2009

Title:

NURSE SHARK EFH

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NATIONAL MARINE FISHERIES SERVICE

Other_Citation_Details:

DOWNLOADED SUMMER 2011

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_35

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:

2009

Title:

SAILFISH EFH

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NATIONAL MARINE FISHERIES SERVICE

Other_Citation_Details:

DOWNLOADED SUMMER 2011

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_36

Source_Contribution:
FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:
2009

Title:
SWORDFISH EFH

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:
SILVER SPRING, MD

Publisher:
NATIONAL MARINE FISHERIES SERVICE

Other_Citation_Details:
DOWNLOADED SUMMER 2011

Online_Linkage:
<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>

Type_of_Source_Media:
ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_37

Source_Contribution:
FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:
2009

Title:
WHITE MARLIN EFH

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:
SILVER SPRING, MD

Publisher:
NATIONAL MARINE FISHERIES SERVICE

Other_Citation_Details:

DOWNLOADED SUMMER 2011

Online_Linkage:<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>*Type_of_Source_Media:*

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_38

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:

2009

Title:

YELLOWFIN TUNA EFH

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

SILVER SPRING, MD

Publisher:

NMFS

Other_Citation_Details:

DOWNLOADED SUMMER 2011

Online_Linkage:<http://www.nmfs.noaa.gov/sfa/hms/EFH/shapefiles.htm>*Type_of_Source_Media:*

online

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_39

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS), FISHERIES OFFICE OF SUSTAINABLE FISHERIES (OSF), HIGHLY MIGRATORY SPECIES MANAGEMENT DIVISION

Publication_Date:

2009

Title:

FINAL AMENDMENT 1 TO THE CONSOLIDATED ATLANTIC HIGHLY MIGRATORY SPECIES FISHERY MANAGEMENT PLAN ESSENTIAL FISH HABITAT

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NATIONAL MARINE FISHERIES SERVICE

Other_Citation_Details:

CHAPTER 5: LIFE HISTORY ACCOUNTS AND EFH DESCRIPTIONS AND MAPS

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_40

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), SOUTHEAST FISHERIES SCIENCE CENTER (SEFSC)

Publication_Date:

2011

Title:

DENSITIES OF COMMON REEF FISH BY GEOGRAPHIC REGION, HABITAT AND PROTECTION STATUS FROM THE REEF VISUAL CENSUS DATABASE

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2008

Ending_Date:

2011

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_41

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), SOUTHEAST FISHERIES SCIENCE CENTER (SEFSC), REEF FISH GROUP

Publication_Date:
 2013
Title:
 DISTRIBUTION AND ABUNDANCE OF REEF FISH IN SOUTH FLORIDA
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2013
Ending_Date:
 2013
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_42
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NELSON, D.M. (EDITOR) ET AL (NOAA'S ESTUARINE LIVING MARINE RESOURCES PROGRAM)
Publication_Date:
 1991
Title:
 DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN SOUTHEAST ESTUARIES
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NOAA/NOS STRATEGIC ENVIRONMENTAL ASSESSMENTS DIVISION
Type_of_Source_Media:
 paper
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 1991
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_43
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NELSON, D.M. (EDITOR) ET AL (NOAA'S ESTUARINE LIVING MARINE RESOURCES PROGRAM)

Publication_Date:
 1992
Title:
 DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN GULF OF MEXICO ESTUARIES, VOL. I: DATA SUMMARIES.
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NOAA/NOS STRATEGIC ENVIRONMENTAL ASSESSMENTS DIVISION
Online_Linkage:
<http://ccma.nos.noaa.gov/ecosystems/estuaries/elmr.aspx>
Type_of_Source_Media:
 paper
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 1998
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_44
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NORTON, S. (NATIONAL MARINE FISHERIES SERVICE (NMFS), SOUTHEAST REGIONAL OFFICE)
Publication_Date:
 2012
Title:
 SMALLTOOTH SAWFISH OCCURRENCES FROM THE NATIONAL SAWFISH ENCOUNTER DATABASE
Geospatial_Data_Presentation_Form:
 map
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_45
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 PATILLO, M.E. ET AL (NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) ESTUARINE LIVING MARINE RESOURCES PROGRAM)
Publication_Date:

1997

Title:

DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN GULF OF MEXICO ESTUARIES, VOLUME II: SPECIES LIFE HISTORY SUMMARIES

Geospatial_Data_Presentation_Form:

document

*Publication_Information:**Publication_Place:*

SILVER SPRING, MD

Publisher:

NOAA/NOS STRATEGIC ENVIRONMENTAL ASSESSMENTS DIVISION

Type_of_Source_Media:

paper

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

1997

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_46

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

PATTENGILL-SEMMENS, C. (REEF ENVIRONMENTAL EDUCATION FOUNDATION (REEF))

Publication_Date:

2012

Title:

REEF FISH SURVEY DATA FOR SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

tabular digital data

Other_Citation_Details:

ACQUIRED 3 OCT 2012

Online_Linkage:<http://www.reef.org>*Type_of_Source_Media:*

EMAIL

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2008

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_47

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

POWELL, ALLYN B., GORDON THAYER, MICHAEL LACROIX, AND ROBIN CHESHIRE

Publication_Date:

2007

Title:
 JUVENILE AND SMALL RESIDENT FISHES OF FLORIDA BAY, A CRITICAL HABITAT IN
 THE EVERGLADES NATIONAL PARK, FLORIDA

Geospatial_Data_Presentation_Form:
 document

Publication_Information:

Publication_Place:
 SEATTLE, WA

Publisher:
 SCIENTIFIC PUBLICATIONS OFFICE, NATIONAL MARINE FISHERIES SERVICE

Other_Citation_Details:
 NOAA PROFESSIONAL PAPER NMFS 6

Online_Linkage:
<http://spo.nwr.noaa.gov/pp6.pdf>

Type_of_Source_Media:
 ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
 2007

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_48

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SADOVY, YVONNE AND ANNE-MARIE EKLUND

Publication_Date:

1999

Title:

SYNOPSIS OF BIOLOGICAL DATA ON THE NASSAU GROUPER, EPINEPHELUS
 STRIATUS, AND THE JEWFISH, E. ITAJARA

Geospatial_Data_Presentation_Form:
 document

Publication_Information:

Publication_Place:
 SEATTLE, WA

Publisher:
 NOAA NATIONAL MARINE FISHERIES SERVICE

Other_Citation_Details:
 NOAA TECHNICAL REPORT NMFS 146; FAO FISHERIES SYNOPSIS 157

Type_of_Source_Media:
 ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
 1999

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_49

Source_Contribution:

FISH INFORMATION

Source_Information:

*Source_Citation:**Citation_Information:**Originator:*

SERAFY, J. AND D. JOHNSON

Publication_Date:

2008

*Title:*DEVELOPMENT OF HABITAT SUITABILITY MODELS FOR BISCAYNE BAY AREA
FISHES: ASSESSING SALINITY AFFINITY FROM ABUNDANCE DATA*Geospatial_Data_Presentation_Form:*

document

*Publication_Information:**Publication_Place:*

WEST PALM BEACH, FL

*Publisher:*SOUTH FLORIDA WATER MANAGEMENT DISTRICT, COASTAL ECOSYSTEMS
DIVISION*Other_Citation_Details:*

FINAL REPORT TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Type_of_Source_Media:

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_50

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

SERAFY, JOSEPH E., CRAIG H. FAUNCE AND JEROME J. LORENZ

Publication_Date:

2003

Title:

MANGROVE SHORELINE FISHES OF BISCAYNE BAY FLORIDA

Geospatial_Data_Presentation_Form:

document

*Publication_Information:**Publication_Place:*

MIAMI, FLORIDA

*Publisher:*ROSENSTIEL SCHOOL OF MARINE & ATMOSPHERIC SCIENCE, UNIVERSITY OF
MIAMI*Other_Citation_Details:*

BULLETIN OF MARINE SCIENCE, 72(1):161-180

Type_of_Source_Media:

PAPER

*Source_Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:**Beginning_Date:*

1999

Ending_Date:

2001

Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_51
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL (SAFMC)
Publication_Date:
 2003
Title:
 FISHERY MANAGEMENT PLAN FOR THE DOLPHIN AND WAHOO FISHERY OF THE
 ATLANTIC
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 CHARLESTON, SC
Publisher:
 SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL
Online_Linkage:
<http://www.safmc.net/Portals/6/Library/FMP/DolphinWahoo/DolphinWahooFMP.pdf>
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2003
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_52
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 TELLIER, M. ET AL. (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION -
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWC-FWRI))
Publication_Date:
 2008
Title:
 MONITORING THE FLORA AND FAUNA OF THE NEARSHORE HARDBOTTOM
 HABITATS OF THE FLORIDA KEYS
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 MARATHON, FL
Publisher:
 FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Type_of_Source_Media:
 PAPER
Source_Time_Period_of_Content:
Time_Period_Information:

Range_of_Dates/Times:
Beginning_Date:
 2003
Ending_Date:
 2007
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_53
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 TONYA R. WILEY AND COLIN A. SIMPENDORFER
Publication_Date:
 2007
Title:
 THE ECOLOGY OF ELASMOBRANCHS OCCURRING IN THE EVERGLADES NATIONAL
 PARK, FLORIDA: IMPLICATIONS FOR CONSERVATION AND MANAGEMENT
Geospatial_Data_Presentation_Form:
 document
Other_Citation_Details:
 BULLETIN OF MARINE SCIENCE, 80(1): 171-189
Type_of_Source_Media:
 PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2000
Ending_Date:
 2005
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_54
Source_Contribution:
 FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 WILEY-LESCHER, TONYA (HAVEN WORTH CONSULTING)
Publication_Date:
 2012
Title:
 ELASMOBRANCHS OF SOUTH FLORIDA
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_55

Source_Contribution:

FISH INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

WILLIAMS, ERIK H. AND JOHN CARMICHAEL

Publication_Date:

2009

Title:

FINAL REPORT: SOUTH ATLANTIC FISHERY INDEPENDENT MONITORING PROGRAM WORKSHOP

Geospatial_Data_Presentation_Form:

document

*Publication_Information:**Publication_Place:*

BEAUFORT, NC

Publisher:

SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL AND SOUTHEAST FISHERIES SCIENCE CENTER

Other_Citation_Details:

HOSTED BY THE NATIONAL MARINE FISHERIES SERVICE AND SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL

Type_of_Source_Media:

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_56

Source_Contribution:

FISH INFORMATION

*Process_Step:**Process_Description:*

The main sources of data used to depict fish distribution and seasonality for this data layer include: 1) personal interviews with resource experts from Fish and Wildlife Research Institute (FWRI); 2) reef fish densities provided by NOAA Southeast Fisheries Science Center (SEFSC) based on reef visual census (RVC) sampling; 3) reef fish observation information based on Reef Environmental Education Foundation (REEF) database; 4) Estuarine Living Marine Resources (ELMR) database; 5) spawning aggregation areas identified in published literature and expert information; 6) commercial fisheries data provided by FWRI; 7) NOAA Fisheries Office of Protected Resources (OPR) essential fish habitat (EFH) shapefiles and 8) distribution information available from fishbase and other publicly available sources. Densities derived from RVC data were assigned to habitat-based polygons matching the ESI benthic layer. REEF sampling points were assigned to polygons representing shallow hardbottom, inner reef or outer reef. Observed densities and occurrences were converted into categorical densities for each species in each REEF polygon. Spawning aggregation sites are represented by polygons that contain the actual site. Polygons are larger than actual aggregation sites in order to account for annual variability. ELMR information was attributed to polygons representing Biscayne Bay and Florida Bay. Commercial fishing data were mapped to statistical reporting grids. Monthly catch rates were used to assign seasonalities for some pelagic fish. EFH information was used to guide mapping for select highly migratory species and sharks. Expert knowledge and other public sources were assigned to depth and/or habitat based categories. Depth bins used for mapping are: 0-3.7m, 3.7-10m, 10-30m, 30-100m, 100-200m and greater than 200m. The above digital and/or hardcopy sources were compiled by the project biologist to create the FISH data layer. Depending on the type of

source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the FISH data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

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*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

33770

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

33769

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

78541

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:
3512905

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node, planar graph
Point_and_Vector_Object_Count:
60755

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:
Latitude_Resolution:
0.0000001
Longitude_Resolution:
0.0000001
Geographic_Coordinate_Units:
Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:
North American Datum of 1983
Ellipsoid_Name:
Geodetic Reference System 80
Semi-major_Axis:
6378137.000000
Denominator_of_Flattening_Ratio:
298.257222

[Back To Index](#)

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:
FISH.PAT

Entity_Type_Definition:

The FISH.PAT table contains attribute information for the vector polygons in this data set representing fish distribution, concentration areas, nursery areas and spawning areas. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (2), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
2210200002

Range_Domain_Maximum:
2210244906

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000246

Range_Domain_Maximum:

221001708

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (2), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210100002

Range_Domain_Maximum:

2210708909

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221000001

Range_Domain_Maximum:

221002634

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

CONC

Attribute_Definition:

The field CONC refers to "concentration", abundance, or density values of fish present at a particular location. Density values from reef visual census (RVC) sampling data are given in "XX fish/ha". Densities derived from the nearshore hardbottom sampling dataset are given in "XX per 100 sq m". Categorical concentrations used in the atlas were derived from expert opinion, Estuarine Living Marine Resources (ELMR) data, or Reef Environmental Education Foundation (REEF) data. Of these, ELMR concentrations can be "RARE", "COMMON", "ABUNDANT", or "HIGHLY ABUNDANT". REEF data concentrations are given as "UNCOMMON", "COMMON", "ABUNDANT", and "HIGHLY ABUNDANT". Spawning aggregation areas are noted as "SPAWNING-AREA", "SPAWNING-AREA (XXX)", "SPAWNING-AREA (XXXs)", or a range of spawning counts "SPAWNING (XXXs-XXXXs)", along with estimated number of fish. Where quantitative or qualitative data are lacking, species are noted as "PRESENT". If no concentration information was available from any source, the field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

algae

Enumerated_Domain_Value_Definition:

Algae

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

coral

Enumerated_Domain_Value_Definition:

Coral

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

crab

Enumerated_Domain_Value_Definition:

Crab

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diving

Enumerated_Domain_Value_Definition:

Diving bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

dolphin

Enumerated_Domain_Value_Definition:

Dolphin

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

e_nursery

Enumerated_Domain_Value_Definition:

Estuarine nursery fish

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 e_resident
Enumerated_Domain_Value_Definition:
 Estuarine resident fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 echinoderm
Enumerated_Domain_Value_Definition:
 Echinoderm
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 fish
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gastropod
Enumerated_Domain_Value_Definition:
 Gastropod
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gull_tern
Enumerated_Domain_Value_Definition:
 Gull or tern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 hardbottom
Enumerated_Domain_Value_Definition:
 Hardbottom
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 insect
Enumerated_Domain_Value_Definition:
 Insect
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lobster
Enumerated_Domain_Value_Definition:
 Lobster
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_benthic
Enumerated_Domain_Value_Definition:
 Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_pelagic
Enumerated_Domain_Value_Definition:
 Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 manatee
Enumerated_Domain_Value_Definition:
 Manatee
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 plant
Enumerated_Domain_Value_Definition:
 Plant
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 raptor
Enumerated_Domain_Value_Definition:
 Raptor
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 reef
Enumerated_Domain_Value_Definition:
 Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sav
Enumerated_Domain_Value_Definition:
 Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shorebird
Enumerated_Domain_Value_Definition:
 Shorebird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shrimp
Enumerated_Domain_Value_Definition:
 Shrimp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sm_mammal
Enumerated_Domain_Value_Definition:
 Small mammal
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
ungulate
Enumerated_Domain_Value_Definition:
Ungulate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
upland
Enumerated_Domain_Value_Definition:
Upland vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:
Waterfowl
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
NHP
Attribute_Definition:
Natural Heritage Program global ranking.
Attribute_Definition_Source:
Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
NHP Global Conservation Status Rank
Codeset_Source:
Natural Heritage Program

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SEASONAL

Entity_Type_Definition:

The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 SEASON_ID

Attribute_Definition:
 Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 JAN

Attribute_Definition:
 January

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in January
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 FEB

Attribute_Definition:
 February

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in February
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 MAR

Attribute_Definition:
 March

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in March

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

APR

Attribute_Definition:

April

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in April

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAY

Attribute_Definition:

May

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in May

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUN

Attribute_Definition:

June

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in June

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUL

Attribute_Definition:

July

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in July

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

AUG

Attribute_Definition:

August

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in August

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SEP

Attribute_Definition:

September

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in September

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

OCT

Attribute_Definition:

October

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in October

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIORES and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BREED

Entity_Type_Definition:

The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIORES and SEASONAL data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used

for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = interesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

STATE

Attribute_Definition:

Two-letter state abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

COUNTRY

Attribute_Definition:

Three-letter country abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

S

Attribute_Definition:

State threatened or endangered status.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

S_DATE

Attribute_Definition:

Publication date of source material used to assign state status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F_DATE

Attribute_Definition:

Publication date of source material used to assign federal status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE*Attribute_Definition:*

Publication date of source material used to assign international status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORES and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, FISH) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables (described in the Detailed_Description sections), except the BREED1-BREED5 and BREED

items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name:

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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*Metadata_Reference_Information:**Metadata_Date:*

20140617

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: INVERT (Invertebrate Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: INVERT (Invertebrate Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains sensitive biological resource data for marine and estuarine invertebrate species in South Florida.

Vector polygons in this data set represent invertebrate distribution and concentration areas. Species-specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1983

Ending_Date:

2013

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1983 to 2013 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Invertebrate

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data

production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new IDs are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUMs are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resource at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, maps, and digital data on invertebrate distribution and concentration areas. These data do not necessarily represent all invertebrate occurrences in South Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 4, Pink shrimp, *Farfantepenaeus duorarum*; 49, Blue crab, *Callinectes sapidus*; 72, Caribbean spiny lobster, *Panulirus argus*; 97, Grass shrimp, *Palaemonetes* spp.; 101, Queen conch, *Strombus gigas*; 288, Florida stone crab, *Menippe mercenaria*; 621, Peppermint shrimp, *Lysmata wurdemanni*; 623, Bartram's scrub-hairstreak, *Strymon acis bartrami*; 624, Miami blue, *Cyclargus thomasi bethunebakeri*; 625, Stock Island treesnail, *Orthalicus reses reses*; 627, Variegated sea urchin, *Lytechinus variegatus*; 1024, Hermit crabs, n/a.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

BERTELSEN, R. AND T. MATTHEWS (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND WILDLIFE RESEARCH INSTITUTE (FWC-FWRI))

Publication_Date:

2013

Title:

INVERTEBRATE DISTRIBUTION AND ABUNDANCE IN SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

INVERT INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

BIELSA, L.M., WILLIAM H. MURDICH, AND RONALD F. LABISKY

Publication_Date:

1983

*Title:*SPECIES PROFILES: LIFE HISTORY AND ENVIRONMENTAL REQUIREMENTS OF
COASTAL FISHES AND INVERTEBRATES (SOUTH FLORIDA)*Geospatial_Data_Presentation_Form:*

document

*Publication_Information:**Publication_Place:*

WASHINGTON, D.C.

Publisher:

FISH AND WILDLIFE SERVICE, U.S. DEPARTMENT OF THE INTERIOR

Other_Citation_Details:

US FISH AND WILDLIFE SERVICE REPORT: FWS/OBS-82/11.17

Online_Linkage:http://www.nwrc.usgs.gov/wdb/pub/species_profiles/82_11-017.pdf*Type_of_Source_Media:*

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

1983

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

INVERT INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*DELGADO, GABRIEL (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION -
FISH AND WILDLIFE RESEARCH INSTITUTE (FWC-FWRI))*Publication_Date:*

2012

Title:

QUEEN CONCH DISTRIBUTION AND ABUNDANCE IN SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:*

Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_2
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
 CONSERVATION COMMISSION (FWC)
Publication_Date:
 2011
Title:
 QUEEN CONCH AGGREGATION AREAS
Geospatial_Data_Presentation_Form:
 vector digital data
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2000
Ending_Date:
 2011
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 Src_3
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FLORIDA NATURAL AREAS INVENTORY (FNAI)
Publication_Date:
 2011
Title:
 FLORIDA NATURAL AREAS INVENTORY, FLORIDA ELEMENT OCCURRENCE
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 TALLAHASSEE, FL
Publisher:
 FLORIDA NATURAL AREAS INVENTORY (FNAI)
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2011

Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_4
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 GANDY, R. AND CRAWFORD, C. (FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI),
 FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))
Publication_Date:
 2013
Title:
 DISTRIBUTION, ABUNDANCE AND SEASONALITY OF STONE CRAB, BLUE CRAB AND
 PINK SHRIMP IN SOUTH FLORIDA WATERS
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2013
Ending_Date:
 2013
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_5
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 MATTHEWS, TOM (FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH
 AND WILDLIFE CONSERVATION COMMISSION (FWC))
Publication_Date:
 2012
Title:
 SPINY LOBSTER DENSITY AND DISTRIBUTION IN SOUTH FLORIDA FOR SOUTH
 FLORIDA ESI
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION

Source_Citation_Abbreviation:
 Src_6
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), OFFICE OF
 PROTECTED RESOURCES (OPR)
Publication_Date:
 2012
Title:
 QUEEN CONCH FACT SHEET
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NATIONAL MARINE FISHERIES SERVICE
Online_Linkage:
<http://www.nmfs.noaa.gov/pr/species/invertebrates/queenconch.htm>
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_7
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NELSON, D.M. (EDITOR) ET AL (NATIONAL OCEANIC AND ATMOSPHERIC
 ADMINISTRATION (NOAA) ESTUARINE LIVING MARINE RESOURCES PROGRAM)
Publication_Date:
 1991
Title:
 DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN SOUTHEAST
 ESTUARIES
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NOAA/NOS STRATEGIC ENVIRONMENTAL ASSESSMENTS DIVISION
Type_of_Source_Media:
 paper
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:

1991

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_8

Source_Contribution:
INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NELSON, D.M. (EDITOR) ET AL (NOAA'S ESTUARINE LIVING MARINE RESOURCES PROGRAM)

Publication_Date:

1992

Title:

DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN GULF OF MEXICO ESTUARIES, VOL. I: DATA SUMMARIES.

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NOAA/NOS STRATEGIC ENVIRONMENTAL ASSESSMENTS DIVISION

Online_Linkage:

<http://ccma.nos.noaa.gov/ecosystems/estuaries/elmr.aspx>

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1998

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_9

Source_Contribution:
INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PATILLO, M.E. ET AL (NOAA'S ESTUARINE LIVING MARINE RESOURCES PROGRAM)

Publication_Date:

1997

Title:

DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN GULF OF MEXICO ESTUARIES, VOLUME II: SPECIES LIFE HISTORY SUMMARIES

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NOAA/NOS STRATEGIC ENVIRONMENTAL ASSESSMENTS DIVISION

Type_of_Source_Media:

PAPER

Source_Time_Period_of_Content:

Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 1997

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_10

Source_Contribution:
 INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 TELLIER, M. ET AL. (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION -
 FLORIDA WILDLIFE RESEARCH INSTITUTE (FWC-FWRI))

Publication_Date:
 2008

Title:
 MONITORING THE FLORA AND FAUNA OF THE NEARSHORE HARDBOTTOM
 HABITATS OF THE FLORIDA KEYS

Geospatial_Data_Presentation_Form:
 document

Publication_Information:
Publication_Place:
 MARATHON, FL

Publisher:
 FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Type_of_Source_Media:
 PAPER

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2003

Ending_Date:
 2007

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 Src_11

Source_Contribution:
 INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:
 2009

Title:
 TREE SNAIL FOCUS AREA

Geospatial_Data_Presentation_Form:
 vector digital data

Publication_Information:
Publication_Place:
 VERO BEACH, FL

Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA FIELD
 OFFICE

Source_Scale_Denominator:
 12000
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_12
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2012
Title:
 50 CFR PART 17 ENDANGERED AND THREATENED WILDLIFE AND PLANTS; LISTING
 OF THE MIAMI BLUE BUTTERFLY AS ENDANGERED THROUGHOUT ITS RANGE;
 FINAL RULE
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Publication_Information:
Publication_Place:
 WWW.FEDERALREGISTER.GOV
Publisher:
 USFWS
Other_Citation_Details:
 FEDERAL REGISTER/VOL. 77, NO. 67/FRIDAY, APRIL 6, 2012/RULES AND REGULATIONS
Type_of_Source_Media:
 ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_13
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 WATTS, S. A., J. B. MCCLINTOCK & J. M. LAWRENCE
Publication_Date:
 2001
Title:
 THE ECOLOGY OF LYTECHINUS VARIEGATUS
Geospatial_Data_Presentation_Form:
 document
Publication_Information:

Publication_Place:
AMSTERDAM

Publisher:
ELSEVIER SCIENCE PRESS

Other_Citation_Details:
BOOK CHAPTER IN: J.M. LAWRENCE (ED.), EDIBLE SEA URCHINS: BIOLOGY AND ECOLOGY

Type_of_Source_Media:
BOOK

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2001

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_14

Source_Contribution:
INVERT INFORMATION

Process_Step:

Process_Description:

Four main sources of data were used to depict invertebrate distribution and seasonality for this data layer: 1) personal interviews with resource experts from the Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute (FWC-FWRI); 2) digital data sets provided by FWC-FWRI; 3) fishery-dependent catch data; and 4) published and unpublished reports. Queen conch aggregation sites were derived from areas delineated by FWC-FWRI survey data. Site information has been generalized to include areas that may be used due to annual variation. Contact FWC-FWRI for more specific information on the abundance and distribution of any invertebrate species. The above digital and/or hardcopy sources were compiled by the project biologist to create the INVERT data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the INVERT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
201304

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

Contact_Address:

Address_Type:

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:
 (206) 526-6329
Contact_Electronic_Mail_Address:
 orr.esi@noaa.gov

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Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method:

Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

GT-polygon composed of chains

Point_and_Vector_Object_Count:

18584

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

18585

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

36985

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

1834871

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

32158

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

INVERT.PAT

Entity_Type_Definition:

The INVERT.PAT table contains attribute information for the vector polygons in this data set representing invertebrate distribution and concentration areas. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (7), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210700002

Range_Domain_Maximum:

2210723850

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221002115

Range_Domain_Maximum:

221002403

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (7), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210100002

Range_Domain_Maximum:

2210708909

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
CONC

Attribute_Definition:

The field CONC refers to "concentration," abundance, or density values of invertebrates present at a particular site. Densities are given for queen conch concentrations at specific sites for adults and juveniles in the form of (XX_ADULT / XX_JUV), and represent the following ranges: low - less than 200/hectare; medium - 200-800/hectare; high - greater than 800/hectare. Densities reported for spiny lobsters are based on Bertelsen et al. 2004, and categorized as high or low. Data from the nearshore hardbottom dataset are reported as densities in number of organisms per 100 square meters. If no concentration information was available from any source, the field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:
G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:
S_SOURCE

Attribute_Definition:

Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
 M_MAMMAL
Enumerated_Domain_Value_Definition:
 Marine Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 REPTILE
Enumerated_Domain_Value_Definition:
 Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T_MAMMAL
Enumerated_Domain_Value_Definition:
 Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 SUBELEMENT
Attribute_Definition:
 Element subgroup delineating a logical grouping of species.
Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 algae
Enumerated_Domain_Value_Definition:
 Algae
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 alligator
Enumerated_Domain_Value_Definition:
 Alligator
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 coral
Enumerated_Domain_Value_Definition:
 Coral
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 crab
Enumerated_Domain_Value_Definition:
 Crab

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 diving
Enumerated_Domain_Value_Definition:
 Diving bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 dolphin
Enumerated_Domain_Value_Definition:
 Dolphin
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 e_nursery
Enumerated_Domain_Value_Definition:
 Estuarine nursery fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 e_resident
Enumerated_Domain_Value_Definition:
 Estuarine resident fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 echinoderm
Enumerated_Domain_Value_Definition:
 Echinoderm
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 fish
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gastropod
Enumerated_Domain_Value_Definition:
 Gastropod
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 gull_tern
Enumerated_Domain_Value_Definition:
 Gull or tern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 hardbottom
Enumerated_Domain_Value_Definition:
 Hardbottom
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 insect
Enumerated_Domain_Value_Definition:
 Insect
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lobster
Enumerated_Domain_Value_Definition:
 Lobster
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_benthic
Enumerated_Domain_Value_Definition:
 Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_pelagic
Enumerated_Domain_Value_Definition:
 Marine pelagic fish

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 manatee
Enumerated_Domain_Value_Definition:
 Manatee
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 plant
Enumerated_Domain_Value_Definition:
 Plant
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 raptor
Enumerated_Domain_Value_Definition:
 Raptor
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 reef
Enumerated_Domain_Value_Definition:
 Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sav
Enumerated_Domain_Value_Definition:
 Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
shorebird
Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
ungulate
Enumerated_Domain_Value_Definition:
Ungulate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
upland
Enumerated_Domain_Value_Definition:
Upland vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
waterfowl

Enumerated_Domain_Value_Definition:
Waterfowl

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

NHP

Attribute_Definition:

Natural Heritage Program global ranking.

Attribute_Definition_Source:

Network of Natural Heritage Program

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name:

NHP Global Conservation Status Rank

Codeset_Source:

Natural Heritage Program

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g.

ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 REPTILE
Enumerated_Domain_Value_Definition:
 Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T_MAMMAL
Enumerated_Domain_Value_Definition:
 Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 SPECIES_ID
Attribute_Definition:
 Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:
Attribute_Label:
 SEASON_ID
Attribute_Definition:
 Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:
Attribute_Label:
 JAN
Attribute_Definition:
 January
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in January
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
FEB
Attribute_Definition:
February
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in February
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
 OCT
Attribute_Definition:
 October
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in October
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 NOV
Attribute_Definition:
 November
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in November
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 DEC
Attribute_Definition:
 December
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in December
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 EL_SPE_SEA
Attribute_Definition:
 Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIORES and BREED data tables.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E#####
Enumerated_Domain_Value_Definition:
 Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B000101').

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:
BREED

Entity_Type_Definition:

The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIORRES and SEASONAL data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:
 STATE
Attribute_Definition:
 Two-letter state abbreviation.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
 COUNTRY
Attribute_Definition:
 Three-letter country abbreviation.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
 S
Attribute_Definition:
 State threatened or endangered status.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E
Enumerated_Domain_Value_Definition:
 Endangered on state list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T
Enumerated_Domain_Value_Definition:
 Threatened on state list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 C
Enumerated_Domain_Value_Definition:
 Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 F
Attribute_Definition:
 Federal threatened or endangered status.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

S_DATE

Attribute_Definition:

Publication date of source material used to assign state status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

F_DATE

Attribute_Definition:

Publication date of source material used to assign federal status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

I_DATE

Attribute_Definition:

Publication date of source material used to assign international status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORES and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic

section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 PUB_PLACE
Attribute_Definition:
 Publication place.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 PUBLISHER
Attribute_Definition:
 Publisher.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 PUBLICATION
Attribute_Definition:
 Additional citation information.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 ONLINE_LINK
Attribute_Definition:
 Online computer resource URL.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 SCALE
Attribute_Definition:
 Description of the source scale.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 TIME_PERIOD
Attribute_Definition:
 Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, INVERT) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables (described in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

[Back To Index](#)*Distribution_Information:**Distributor:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name:

Multiple formats

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

http://response.restoration.noaa.gov/esi_download

Fees:

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:

Metadata_Date:

20140617

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: REPTILES (Reptile Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: REPTILES (Reptile Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains sensitive biological resource data for sea turtles, crocodiles, mangrove terrapins, and other rare

species in [for] South Florida. Vector polygons in this data set represent reptile distribution and nesting areas. Species-specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1996

Ending_Date:

2013

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1996 to 2013 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Reptile

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data

production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new IDs are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUMs are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resource at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, maps, and digital data on reptile distribution and nesting areas. These data do not necessarily represent all reptile occurrences in South Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 1, American crocodile, *Crocodylus acutus*; 2, Green sea turtle, *Chelonia mydas*; 4, Kemp's ridley sea turtle, *Lepidochelys kempii*; 5, Leatherback sea turtle, *Dermochelys coriacea*; 6, Loggerhead sea turtle, *Caretta caretta*; 9, Hawksbill sea turtle, *Eretmochelys imbricata*; 20, Mangrove terrapin, *Malaclemys terrapin rhizophorarum*; 21, Gopher tortoise, *Gopherus polyphemus*; 205, Florida Keys mole skink, *Plestiodon egregius egregius*; 206, Key ringneck snake, *Diadophis punctatus acricus*; 207, Eastern ribbon snake, *Thamnophis sauritus*; 208, Eastern corn snake, *Pantherophis guttatus*; 209, Rim rock crowned snake, *Tantilla oolitica*.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

CHERKISS M.S., S.S. ROMANICH, F.J. MAZZOTTI

Publication_Date:

2011

Title:

THE AMERICAN CROCODILE IN BISCAYNE BAY, FLORIDA

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

PORT REPUBLIC, MD

Publisher:

COASTAL AND ESTUARINE RESEARCH FOUNDATION

Other_Citation_Details:

ESTUARIES AND COASTS, 34:529-535

Type_of_Source_Media:

paper

*Source_Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:**Beginning_Date:*

1996

Ending_Date:

2005

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

REPTILES INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2012

Title:

GOPHER TORTOISE SPECIES PROFILE

Geospatial_Data_Presentation_Form:

WEBSITE

*Publication_Information:**Publication_Place:*

TALLAHASSEE, FLORIDA

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Online_Linkage:<http://myfwc.com/wildlifehabitats/profiles/reptiles-and-amphibians/reptiles/gopher-tortoise/>*Type_of_Source_Media:*

ONLINE

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

REPTILES INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2012

Title:

KEY RINGNECK SNAKE

Geospatial_Data_Presentation_Form:

document

*Publication_Information:**Publication_Place:*

TALLAHASSEE, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Online_Linkage:

<http://myfwc.com/media/2212156/Key-Ringneck-Snake.pdf>

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) FISH AND
WILDLIFE RESEARCH INSTITUTE (FWRI)

Publication_Date:

2013

Title:

FWC SEA TURTLE NESTING DENSITY, 2007-2011

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2007

Ending_Date:

2011

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2011

Title:

FLORIDA NATURAL AREAS INVENTORY, FLORIDA ELEMENT OCCURRENCE

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HARDY, R. (FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))

Publication_Date:

2013

Title:

SEA TURTLE DISTRIBUTION AND SEASONALITY IN SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HARDY, R. (FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) - MARINE TURTLE RESEARCH PROGRAM)

Publication_Date:

2012

Title:

SEA TURTLE SEASONALITY

Geospatial_Data_Presentation_Form:

document

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:
Calendar_Date:
 2012
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_6
Source_Contribution:
 REPTILES INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 HEINRICH, G. L., T. J. WALSH, J. A. BUTLER (FLORIDA TURTLE CONSERVATION TRUST,
 TAMPA BAY ESTUARY, UNIVERSITY OF NORTH FLORIDA, HEINRICH ECOLOGICAL
 SERVICES)
Publication_Date:
 2010
Title:
 DIAMONDBACK TERRAPINS OF TAMPA BAY: AN EDUCATOR'S GUIDE
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 ST. PETERSBURG, FLORIDA
Publisher:
 FLORIDA TURTLE CONSERVATION TRUST (FCTC)
Online_Linkage:
http://www.tbep.org/pdfs/Diamondback_Terrapin_Educators_Guide.pdf
Type_of_Source_Media:
 online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2010
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_7
Source_Contribution:
 REPTILES INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 HINES, K.N.
Publication_Date:
 2011
Title:
 STATUS AND DISTRIBUTION OF THE RIM ROCK CROWNED SNAKE, TANTILLA
 OOLITICA
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Publication_Information:
Publication_Place:
 CLOVIS, CA
Publisher:
 SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES
Other_Citation_Details:

HERPETOLOGICAL REVIEW, 2011, 42(3), 352-356.

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_8

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

M. J. BRESETTE, B. E. WITHERINGTON, R. M. HERREN, D. A. BAGLEY, J. C. GORHAM, S. L. TRAXLER, C. K. CRADY, R. HARDY

Publication_Date:

2010

Title:

SIZE-CLASS PARTITIONING AND HERDING IN A FORAGING GROUP OF GREEN TURTLES CHELONIA MYDAS

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

LUNEBURG, GERMANY

Publisher:

INTER-RESEARCH

Other_Citation_Details:

ENDANGERED SPECIES RESEARCH, VOL. 9: 105-116

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_9

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL PARK SERVICE (NPS) AND FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:

2012

Title:

IMPLEMENTING THE DRY TORTUGAS NATIONAL PARK: RESEARCH NATURAL AREA SCIENCE PLAN, THE 5-YEAR REPORT

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

HOMESTEAD, FL

Publisher:

SOUTH FLORIDA NATURAL RESOURCES CENTER (SFNRC), EVERGLADES AND
DRY TORTUGAS NATIONAL PARKS, FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Other_Citation_Details:

INFORMATION TAKEN FROM CHAPTER 5: USE OF DRY TORTUGAS NATIONAL PARK
BY THREATENED AND ENDANGERED MARINE TURTLES

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_10

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL PARK SERVICE (NPS), EVERGLADES NATIONAL PARK

Publication_Date:

2013

Title:

EVERGLADES NATIONAL PARK RESOURCES

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_11

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PARRY, M. (NATIONAL PARK SERVICE (NPS))

Publication_Date:

2012

Title:

DISTRIBUTION AND ABUNDANCE OF CROCODILES AND MANGROVE TERRAPINS IN
SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_12

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PATTERSON, J. (NATIONAL PARK SERVICE/CARIBBEAN NETWORK)

Publication_Date:

2013

Title:

NATIONAL PARK SERVICE RESOURCES

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PAPER

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RICE, K.G. ET AL (EDITORS)

Publication_Date:

2008

Title:

2008 ANNUAL ASSESSMENT UPDATE: AMERICAN ALLIGATOR DISTRIBUTION, SIZE, AND HOLE OCCUPANCY AND AMERICAN CROCODILE JUVENILE GROWTH AND SURVIVAL

Geospatial_Data_Presentation_Form:

document

Other_Citation_Details:

UNPUBLISHED: YEARLY REPORT

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2008

Ending_Date:

2008

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

WILMERS, T. (UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), FLORIDA KEYS NATIONAL WILDLIFE REFUGES)

Publication_Date:

2012

Title:

DISTRIBUTION AND SEASONALITY OF BIRDS AND REPTILES IN SOUTH FLORIDA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_15

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

WRUBLIK, J.M. (UNITED STATES FISH AND WILDLIFE SERVICE (USFWS))

Publication_Date:

2013

Title:

AMERICAN CROCODILE NESTING DATA FOR SOUTH FLORIDA, CROCODILE NESTING AT MATHESON HAMMOCKS

Geospatial_Data_Presentation_Form:

document

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

disc

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2007

Ending_Date:
 2007

Source_Currentness_Reference:
 DATE OF SURVEY

Source_Citation_Abbreviation:
 Src_16

Source_Contribution:
 REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
 ZAMBRANO, R. (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC))

Publication_Date:
 2012

Title:
 DISTRIBUTION AND SEASONALITY OF BIRDS AND REPTILES IN SOUTH FL

Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE

Other_Citation_Details:
 UNPUBLISHED

Type_of_Source_Media:
 PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
 2012

Source_Currentness_Reference:
 DATE OF COMMUNICATION

Source_Citation_Abbreviation:
 Src_17

Source_Contribution:
 REPTILES INFORMATION

Process_Step:

Process_Description:

Three main sources of data were used to depict reptile distribution and seasonality for this data layer: 1) personal interviews with resource experts from Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute (FWC-FWRI), U.S. Geological Survey (USGS), U.S. Fish and Wildlife Service (USFWS), and National Park Service (NPS) - Everglades National Park, Biscayne Bay National Park, and Dry Tortugas National Park; 2) digital data (based on surveys) provided by FWC-FWRI for sea turtle nesting, Florida Natural Areas Inventory (FNAI) data for rare species; and 3) peer-reviewed journal articles provided by USGS, FWRI, and NPS. The sea turtle nesting data summarized here describe the most recent five years of monitoring (2007-2011) by the Statewide Nesting Beach Survey Program. For each of the three more common nesting species (loggerhead, green turtle and leatherback), the earliest and latest recorded nesting month during the last five years is included in the seasonality table. Species nesting densities were classified as "low", "medium" or "high" relative to the remainder of surveyed sea turtle nesting beaches in Florida. Kemp's ridley sea turtle have been observed at 2 beaches in the study area, and are listed as such. The above digital and/or hardcopy sources were compiled by the project biologist to create the REPTILES data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the REPTILES data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
 201304

Process_Contact:

*Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

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*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

21324

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

21323

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

49256

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

2014320

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

44731

[Back To Index](#)

Spatial_Reference_Information:

*Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:*

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

[Back To Index](#)*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

REPTILES.PAT

Entity_Type_Definition:

The REPTILES.PAT table contains attribute information for the vector polygons in this data set representing reptile distribution and nesting areas. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (6), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210600002

Range_Domain_Maximum:

2210631655

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221002404

Range_Domain_Maximum:
221002406

Detailed_Description:

Entity_Type:

Entity_Type_Label:
BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:
Range_Domain_Minimum:
221000001
Range_Domain_Maximum:
221002634

Attribute:

Attribute_Label:
ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (6), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:
Range_Domain_Minimum:
2210100002
Range_Domain_Maximum:
2210708909

Detailed_Description:

Entity_Type:

Entity_Type_Label:
BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

CONC

Attribute_Definition:

The field CONC refers to "concentration," abundance, or density values of reptiles present at a particular site. In cases where no quantitative count data was available or appropriate, the field may contain descriptive terms (used for sea turtles) such as "HIGH", "MEDIUM", "LOW", "PRESENT", or "RARE". Crocodile nest concentrations are categorical and roughly correspond to the nest numbers based on 2008 nesting data. LOW:less than 5, MED:5-15, HIGH:15-25, VERY HIGH: greater than 25. Concentrations have been adjusted based on expert opinion. The field has also been determined by life stage such as "HIGH_ADULT/PRES_JUV" meaning high adult presence, juvenile present.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 S_SOURCE
Attribute_Definition:
 Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 ELEMENT
Attribute_Definition:
 Major categories of biological data.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BIRD
Enumerated_Domain_Value_Definition:
 Birds
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 FISH
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HABITAT
Enumerated_Domain_Value_Definition:
 Habitats and plants
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 INVERT
Enumerated_Domain_Value_Definition:
 Invertebrates
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g.

ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last

two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID =

1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

algae

Enumerated_Domain_Value_Definition:

Algae

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
alligator
Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
coral
Enumerated_Domain_Value_Definition:
Coral
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
crab
Enumerated_Domain_Value_Definition:
Crab
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
diving
Enumerated_Domain_Value_Definition:
Diving bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
dolphin
Enumerated_Domain_Value_Definition:
Dolphin
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
e_nursery
Enumerated_Domain_Value_Definition:
Estuarine nursery fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
e_resident
Enumerated_Domain_Value_Definition:
Estuarine resident fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
echinoderm
Enumerated_Domain_Value_Definition:
Echinoderm

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 fish
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gastropod
Enumerated_Domain_Value_Definition:
 Gastropod
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gull_tern
Enumerated_Domain_Value_Definition:
 Gull or tern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 hardbottom
Enumerated_Domain_Value_Definition:
 Hardbottom
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 insect
Enumerated_Domain_Value_Definition:
 Insect
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 lobster
Enumerated_Domain_Value_Definition:
 Lobster
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_benthic
Enumerated_Domain_Value_Definition:
 Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_pelagic
Enumerated_Domain_Value_Definition:
 Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 manatee
Enumerated_Domain_Value_Definition:
 Manatee
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 plant
Enumerated_Domain_Value_Definition:
 Plant
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 raptor
Enumerated_Domain_Value_Definition:
 Raptor

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 reef
Enumerated_Domain_Value_Definition:
 Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sav
Enumerated_Domain_Value_Definition:
 Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shorebird
Enumerated_Domain_Value_Definition:
 Shorebird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shrimp
Enumerated_Domain_Value_Definition:
 Shrimp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sm_mammal
Enumerated_Domain_Value_Definition:
 Small mammal
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 snake
Enumerated_Domain_Value_Definition:
 Snake
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 turtle
Enumerated_Domain_Value_Definition:
 Turtle
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 ungulate
Enumerated_Domain_Value_Definition:
 Ungulate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 upland
Enumerated_Domain_Value_Definition:
 Upland vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 wading
Enumerated_Domain_Value_Definition:
 Wading bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 waterfowl
Enumerated_Domain_Value_Definition:
 Waterfowl
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 NHP
Attribute_Definition:
 Natural Heritage Program global ranking.
Attribute_Definition_Source:
 Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
 NHP Global Conservation Status Rank
Codeset_Source:
 Natural Heritage Program

Attribute:
Attribute_Label:
 DATE_PUB
Attribute_Definition:
 Date of NHP listing.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 YYYYMM
Enumerated_Domain_Value_Definition:
 YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

JAN

Attribute_Definition:

January

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in January

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

FEB

Attribute_Definition:

February

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in February

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAR

Attribute_Definition:

March

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in March

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

APR

Attribute_Definition:

April

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X

Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in November
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
DEC
Attribute_Definition:
December
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIoRES and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BREED

Entity_Type_Definition:

The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIoRES and SEASONAL data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

MONTH

Attribute_Definition:

Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

12

*Attribute:**Attribute_Label:*

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = interesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
ELEMENT

Attribute_Definition:
Major categories of biological data.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
BIRD

Enumerated_Domain_Value_Definition:
Birds

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
FISH

Enumerated_Domain_Value_Definition:
Fish

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
HABITAT

Enumerated_Domain_Value_Definition:
Habitats and Plants

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
INVERT

Enumerated_Domain_Value_Definition:
Invertebrates

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
M_MAMMAL

Enumerated_Domain_Value_Definition:
Marine Mammals

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
REPTILE

Enumerated_Domain_Value_Definition:
Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

STATE

Attribute_Definition:

Two-letter state abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

COUNTRY

Attribute_Definition:

Three-letter country abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

S

Attribute_Definition:

State threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on state list

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
C

Enumerated_Domain_Value_Definition:
Species of Special Concern

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

F

Attribute_Definition:

Federal threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
E

Enumerated_Domain_Value_Definition:
Endangered on federal list

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
T

Enumerated_Domain_Value_Definition:
Threatened on federal list

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
C

Enumerated_Domain_Value_Definition:
Species of Special Concern

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
E

Enumerated_Domain_Value_Definition:
Endangered on international list

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

S_DATE

Attribute_Definition:

Publication date of source material used to assign state status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F_DATE

Attribute_Definition:

Publication date of source material used to assign federal status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

Publication date of source material used to assign international status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORES and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, REPTILES) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables (described in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name:

Multiple formats

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

http://response.restoration.noaa.gov/esi_download

Fees:

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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*Metadata_Reference_Information:**Metadata_Date:*

20140616

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: M_MAMMAL (Marine Mammal Polygons)

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
 - [Spatial Data Organization Information](#)
 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
-

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: M_MAMMAL (Marine Mammal Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains sensitive biological resource data for manatees and bottlenose dolphins in [for] South Florida. Vector polygons in this data set represent marine mammal distributions. Species-specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2009

Ending_Date:

2012

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 2009 to 2012 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Marine Mammal

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data

production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary node, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new IDs are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUMs are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resources at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of expert knowledge, digital data and published reports on marine mammal distribution. These data do not necessarily represent all marine mammal occurrences in South Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 10, West Indian manatee, Trichechus manatus; 17, Bottlenose dolphin, Tursiops truncatus.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2012

Title:

MANATEE ABUNDANCE

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

MIAMI-DADE DEPARTMENT OF ENVIRONMENTAL RESOURCE MANAGEMENT,
BROWARD COUNTY, PALM BEACH COUNTY, SEA TO SHORE ALLIANCE

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_0
Source_Contribution:
 M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), OFFICE OF
 PROTECTED RESOURCES (OPR)
Publication_Date:
 2009
Title:
 BOTTLENOSE DOLPHIN (TURSIOPS TRUNCATUS), BISCAYNE BAY STOCK
 ASSESSMENT REPORT
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NOAA FISHERIES
Online_Linkage:
<http://www.nmfs.noaa.gov/pr/pdfs/sars/ao2009dobn-bb.pdf>
Type_of_Source_Media:
 online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_1
Source_Contribution:
 M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), OFFICE OF
 PROTECTED RESOURCES (OPR)
Publication_Date:
 2009
Title:
 BOTTLENOSE DOLPHIN (TURSIOPS TRUNCATUS), FLORIDA BAY STOCK ASSESSMENT
 REPORT
Geospatial_Data_Presentation_Form:
 document
Publication_Information:
Publication_Place:
 SILVER SPRING, MD
Publisher:
 NOAA FISHERIES
Online_Linkage:
<http://www.nmfs.noaa.gov/pr/sars/species.htm>
Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

M_MAMMAL INFORMATION

Process_Step:

Process_Description:

West Indian manatee geographic distribution, abundance, and seasonality data was provided via shapefile through a collaboration between Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC-FWRI), Miami-Dade Department of Environmental Resources Management, Broward County – Natural Resources Planning and Management Division – Marine Resources Section, Palm Beach County Department of Environmental Resources Management, and Sea to Shore Alliance. Estuarine stocks of bottlenose dolphins were mapped to coastal waters according to the concentrations reported in the National Marine Fisheries Service (NMFS) stock assessment reports. Bottlenose dolphins are mapped as present in other shelf waters in the region. The above digital and/or hardcopy sources were compiled by the project biologist to create the M_MAMMAL data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the M_MAMMAL data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

Contact_Address:

Address_Type:

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

1717

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

1718

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

2910

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

499036

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

2634

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*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:*

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

M_MAMMAL.PAT

Entity_Type_Definition:

The M_MAMMAL.PAT table contains attribute information for the vector polygons in this data set representing marine mammal distributions. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (4), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2210400002

Range_Domain_Maximum:

2210400889

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221002404

Range_Domain_Maximum:

221002406

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (4), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210100002

Range_Domain_Maximum:

2210708909

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

CONC

Attribute_Definition:

The field CONC refers to "concentration," abundance, or density values for marine mammals present at a

particular site. The field may contain counts of individuals (greater than or APPROX. XXX INDIVIDUALS). In cases where no quantitative count was available, the field may contain descriptive terms such as "HIGH" or "LOW".

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORRES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

algae

Enumerated_Domain_Value_Definition:

Algae

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

coral

Enumerated_Domain_Value_Definition:

Coral

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

crab

Enumerated_Domain_Value_Definition:

Crab

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diving

Enumerated_Domain_Value_Definition:

Diving bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
dolphin
Enumerated_Domain_Value_Definition:
Dolphin
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
e_nursery
Enumerated_Domain_Value_Definition:
Estuarine nursery fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
e_resident
Enumerated_Domain_Value_Definition:
Estuarine resident fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
echinoderm
Enumerated_Domain_Value_Definition:
Echinoderm
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
fish
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gastropod
Enumerated_Domain_Value_Definition:
Gastropod
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
hardbottom

Enumerated_Domain_Value_Definition:
 Hardbottom
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 insect
Enumerated_Domain_Value_Definition:
 Insect
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lobster
Enumerated_Domain_Value_Definition:
 Lobster
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_benthic
Enumerated_Domain_Value_Definition:
 Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_pelagic
Enumerated_Domain_Value_Definition:
 Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 manatee
Enumerated_Domain_Value_Definition:
 Manatee
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
 - passerine
 - Enumerated_Domain_Value_Definition:*
 - Passerine bird
 - Enumerated_Domain_Value_Definition_Source:*
 - NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
 - pelagic
 - Enumerated_Domain_Value_Definition:*
 - Pelagic bird
 - Enumerated_Domain_Value_Definition_Source:*
 - NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
 - plant
 - Enumerated_Domain_Value_Definition:*
 - Plant
 - Enumerated_Domain_Value_Definition_Source:*
 - NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
 - raptor
 - Enumerated_Domain_Value_Definition:*
 - Raptor
 - Enumerated_Domain_Value_Definition_Source:*
 - NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
 - reef
 - Enumerated_Domain_Value_Definition:*
 - Reef
 - Enumerated_Domain_Value_Definition_Source:*
 - NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
 - sav
 - Enumerated_Domain_Value_Definition:*
 - Submerged aquatic vegetation
 - Enumerated_Domain_Value_Definition_Source:*
 - NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
 - shorebird
 - Enumerated_Domain_Value_Definition:*
 - Shorebird
 - Enumerated_Domain_Value_Definition_Source:*
 - NOAA ESI Guidelines
- Attribute_Domain_Values:*
 - Enumerated_Domain:*
 - Enumerated_Domain_Value:*
 - shrimp

Enumerated_Domain_Value_Definition:
 Shrimp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sm_mammal
Enumerated_Domain_Value_Definition:
 Small mammal
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 snake
Enumerated_Domain_Value_Definition:
 Snake
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 turtle
Enumerated_Domain_Value_Definition:
 Turtle
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 ungulate
Enumerated_Domain_Value_Definition:
 Ungulate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 upland
Enumerated_Domain_Value_Definition:
 Upland vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 wading
Enumerated_Domain_Value_Definition:
 Wading bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 waterfowl
Enumerated_Domain_Value_Definition:
 Waterfowl
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NHP

Attribute_Definition:

Natural Heritage Program global ranking.

Attribute_Definition_Source:

Network of Natural Heritage Program

*Attribute_Domain_Values:**Codeset_Domain:**Codeset_Name:*

NHP Global Conservation Status Rank

Codeset_Source:

Natural Heritage Program

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SEASONAL

Entity_Type_Definition:

The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which

describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
JAN
Attribute_Definition:
January
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in January
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
FEB
Attribute_Definition:
February
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X

Enumerated_Domain_Value_Definition:
Present in February
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X

Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X

Enumerated_Domain_Value_Definition:

Present in October

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIORES and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BREED

Entity_Type_Definition:

The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIORES and SEASONAL data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

MONTH

Attribute_Definition:

Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

12

*Attribute:**Attribute_Label:*

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = interesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

STATE

Attribute_Definition:

Two-letter state abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 COUNTRY
Attribute_Definition:
 Three-letter country abbreviation.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 S
Attribute_Definition:
 State threatened or endangered status.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E
Enumerated_Domain_Value_Definition:
 Endangered on state list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T
Enumerated_Domain_Value_Definition:
 Threatened on state list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 C
Enumerated_Domain_Value_Definition:
 Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 F
Attribute_Definition:
 Federal threatened or endangered status.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E
Enumerated_Domain_Value_Definition:
 Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T
Enumerated_Domain_Value_Definition:

Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 C
Enumerated_Domain_Value_Definition:
 Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 I
Attribute_Definition:
 International threatened or endangered status.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E
Enumerated_Domain_Value_Definition:
 Endangered on international list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T
Enumerated_Domain_Value_Definition:
 Threatened on international list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 C
Enumerated_Domain_Value_Definition:
 Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 S_DATE
Attribute_Definition:
 Publication date of source material used to assign state status values for each species, if used.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 YYYYMM
Enumerated_Domain_Value_Definition:
 YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 F_DATE

Attribute_Definition:

Publication date of source material used to assign federal status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

I_DATE

Attribute_Definition:

Publication date of source material used to assign international status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORES and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the

MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
PUBLISHER
Attribute_Definition:
Publisher.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
PUBLICATION
Attribute_Definition:
Additional citation information.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
ONLINE_LINK
Attribute_Definition:
Online computer resource URL.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
SCALE
Attribute_Definition:
Description of the source scale.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
TIME_PERIOD
Attribute_Definition:
Date(s) of data collection that the source material is based upon.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, M_MAMMAL) is linked to the

Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables (described in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Format_Name:*

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)*Metadata_Reference_Information:**Metadata_Date:*

20140617

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

*Contact_Address:**Address_Type:*

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: T_MAMMAL (Terrestrial Mammal Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: T_MAMMAL (Terrestrial Mammal Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains sensitive biological resource data for State and Federally threatened and endangered terrestrial mammals in [for] South Florida. Vector polygons in this data set represent the distribution of these terrestrial mammals. Species-specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1999

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1999 to 2009 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Terrestrial mammals

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg*Browse_Graphic_File_Description:*

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg*Browse_Graphic_File_Description:*

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new IDs are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUMs are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resource at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of digital data on terrestrial mammal distribution. These data do not necessarily represent all terrestrial mammal occurrences in South Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 25, Florida key deer, *Odocoileus virginianus clavium*; 71, Key Largo cotton mouse, *Peromyscus gossypinus allapaticola*; 72, Key Largo woodrat, *Neotoma floridana smalli*; 73, Lower Keys marsh rabbit, *Sylvilagus palustris hefneri*; 77, Silver rice rat, *Oryzomys palustris natator*.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

1999

Title:

SOUTH FLORIDA MULTI-SPECIES RECOVERY PLAN

Geospatial_Data_Presentation_Form:

document

Publication_Information:

Publication_Place:

ATLANTA, GA

Publisher:

UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:
Calendar_Date:
 1999
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_0
Source_Contribution:
 T_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2009
Title:
 COTTON MOUSE FOCUS AREA
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 VERO BEACH, FLORIDA
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA FIELD OFFICE
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_1
Source_Contribution:
 T_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2009
Title:
 KEY DEER FOCUS AREA
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 VERO BEACH, FL
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA FIELD OFFICE
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_2
Source_Contribution:
 T_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2009
Title:
 SILVER RICE RAT FOCUS AREA
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 VERO BEACH, FL
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA FIELD
 OFFICE
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_3
Source_Contribution:
 T_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2009
Title:
 WOODRAT FOCUS AREA
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 VERO BEACH, FL
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA FIELD
 OFFICE
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_4
Source_Contribution:
 T_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2010
Title:
 LOWER KEYS MARSH RABBIT FOCUS AREA
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 VERO BEACH, FLORIDA
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA FIELD OFFICE
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2006
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 Src_5
Source_Contribution:
 T_MAMMAL INFORMATION
Process_Step:
Process_Description:
 The main source of data used to depict terrestrial mammal distribution for this data layer were digital data sets provided by U.S. Fish and Wildlife Service (USFWS) for threatened and endangered (T/E) species: cotton mouse, key deer, marsh rabbit, silver rice rat, and woodrat. Florida Natural Areas Inventory (FNAI) provided additional occurrence information for T/E species. The above digital and/or hardcopy sources were compiled by the project biologist to create the T_MAMMAL data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the T_MAMMAL data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.
Process_Date:
 201304
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

Contact_Address:

Address_Type:

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

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Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method:

Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

GT-polygon composed of chains

Point_and_Vector_Object_Count:

6822

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

6823

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

12532

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

530017

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

8839

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Spatial_Reference_Information:

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 80
Semi-major_Axis:
 6378137.000000
Denominator_of_Flattening_Ratio:
 298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

T_MAMMAL.PAT

Entity_Type_Definition:

The T_MAMMAL.PAT table contains attribute information for the vector polygons in this data set representing State and Federally threatened and endangered terrestrial mammal distribution. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (9), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2210900002

Range_Domain_Maximum:

2210906823

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

221002627

Range_Domain_Maximum:

221002634

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (1), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210100002

Range_Domain_Maximum:

2210708909

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 221000001
Range_Domain_Maximum:
 221002634

Attribute:

Attribute_Label:
 SPECIES_ID

Attribute_Definition:
 Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 CONC

Attribute_Definition:
 The field CONC refers to "concentration," abundance, or density values of terrestrial mammals present at a particular site. No concentration data were available, so this field is populated with "-".

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 SEASON_ID

Attribute_Definition:
 Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 G_SOURCE

Attribute_Definition:
 Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:*

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

algae

Enumerated_Domain_Value_Definition:

Algae

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

coral

Enumerated_Domain_Value_Definition:

Coral

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

crab

Enumerated_Domain_Value_Definition:

Crab

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

diving

Enumerated_Domain_Value_Definition:

Diving bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

dolphin

Enumerated_Domain_Value_Definition:

Dolphin

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

e_nursery

Enumerated_Domain_Value_Definition:

Estuarine nursery fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

e_resident

Enumerated_Domain_Value_Definition:

Estuarine resident fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

echinoderm

Enumerated_Domain_Value_Definition:

Echinoderm

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

fish

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gastropod

Enumerated_Domain_Value_Definition:

Gastropod

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gull_tern

Enumerated_Domain_Value_Definition:

Gull or tern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

hardbottom

Enumerated_Domain_Value_Definition:

Hardbottom

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

insect

Enumerated_Domain_Value_Definition:

Insect

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

lizard

Enumerated_Domain_Value_Definition:

Lizard

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

lobster

Enumerated_Domain_Value_Definition:

Lobster

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

m_benthic

Enumerated_Domain_Value_Definition:

Marine benthic fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

m_pelagic

Enumerated_Domain_Value_Definition:

Marine pelagic fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

manatee

Enumerated_Domain_Value_Definition:

Manatee

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

passerine

Enumerated_Domain_Value_Definition:

Passerine bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

pelagic

Enumerated_Domain_Value_Definition:

Pelagic bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

plant

Enumerated_Domain_Value_Definition:

Plant

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

raptor

Enumerated_Domain_Value_Definition:

Raptor

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

reef

Enumerated_Domain_Value_Definition:

Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sav
Enumerated_Domain_Value_Definition:
 Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shorebird
Enumerated_Domain_Value_Definition:
 Shorebird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shrimp
Enumerated_Domain_Value_Definition:
 Shrimp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sm_mammal
Enumerated_Domain_Value_Definition:
 Small mammal
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 snake
Enumerated_Domain_Value_Definition:
 Snake
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 turtle
Enumerated_Domain_Value_Definition:
 Turtle
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 ungulate
Enumerated_Domain_Value_Definition:
 Ungulate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

upland

Enumerated_Domain_Value_Definition:

Upland vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

waterfowl

Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NHP

Attribute_Definition:

Natural Heritage Program global ranking.

Attribute_Definition_Source:

Network of Natural Heritage Program

*Attribute_Domain_Values:**Codeset_Domain:**Codeset_Name:*

NHP Global Conservation Status Rank

Codeset_Source:

Natural Heritage Program

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SEASONAL

Entity_Type_Definition:

The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

JAN

Attribute_Definition:

January

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in January

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

FEB

Attribute_Definition:

February

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in February

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAR

Attribute_Definition:

March

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in March

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

APR

Attribute_Definition:

April

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in April

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAY

Attribute_Definition:

May

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in May

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUN

Attribute_Definition:

June

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in June

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUL

Attribute_Definition:

July

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in July

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

AUG

Attribute_Definition:

August

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in August

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SEP

Attribute_Definition:

September

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in September

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

OCT

Attribute_Definition:

October

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in October

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIoRES and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BREED

Entity_Type_Definition:

The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIoRES and SEASONAL data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

MONTH

Attribute_Definition:

Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

12

*Attribute:**Attribute_Label:*

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = interesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BIRD
Enumerated_Domain_Value_Definition:
 Birds
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 FISH
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HABITAT
Enumerated_Domain_Value_Definition:
 Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 INVERT
Enumerated_Domain_Value_Definition:
 Invertebrates
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 M_MAMMAL
Enumerated_Domain_Value_Definition:
 Marine Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 REPTILE
Enumerated_Domain_Value_Definition:
 Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T_MAMMAL
Enumerated_Domain_Value_Definition:
 Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

STATE

Attribute_Definition:

Two-letter state abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

COUNTRY

Attribute_Definition:

Three-letter country abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

S

Attribute_Definition:

State threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F

Attribute_Definition:

Federal threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

S_DATE

Attribute_Definition:

Publication date of source material used to assign state status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F_DATE

Attribute_Definition:

Publication date of source material used to assign federal status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

Publication date of source material used to assign international status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORIS and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, T_MAMMAL) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables (described in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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*Distribution_Information:**Distributor:**Contact_Information:*

Contact_Person_Primary:
Contact_Person:
 ESI Manager
Contact_Organization:
 NOAA, Office of Response and Restoration
Contact_Address:
Address_Type:
 Physical Address
Address:
 7600 Sand Point Way N.E.
City:
 Seattle
State_or_Province:
 Washington
Postal_Code:
 98115-6349
Contact_Voice_Telephone:
 (206) 526-6944
Contact_Facsimile_Telephone:
 (206) 526-6329
Contact_Electronic_Mail_Address:
 orr.esi@noaa.gov

Resource_Description:
 Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name:

Multiple formats

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

http://response.restoration.noaa.gov/esi_download

Fees:

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:

Metadata_Date:

20140616

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: HABITATS (Habitat Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: HABITATS (Habitat Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains sensitive biological resource data for threatened/endangered/rare terrestrial plants and

communities in [for] South Florida. The terrestrial plants and communities in the data set are represented by vector polygons. Species-specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1994

Ending_Date:

2013

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1994 to 2013 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Habitat

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data

production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks. In the process of checking for topological and database consistencies, new IDs and RARNUMs or HUNUMs are also generated. The new IDs are a combination of atlas number, element number, and record number. In addition, the value used to represent the element is modified to reflect the type of feature being mapped. In the case of an element that is normally represented by a point or polygon, a value of 20 is added to the standard element value for mapping of linear features. In the case where an element usually mapped as a polygon is represented by a point, a value of 30 is added to the regular element value. The RARNUMs are also modified to include the atlas number, so multiple atlases can be combined and RARNUMs remain unique. RARNUMs are redefined on an element basis, so "resource at risk" groupings will contain only a single element. HUNUMs are also modified to include the atlas number.

Completeness_Report:

These data represent a synthesis of digital data sets representing rare plant and terrestrial community occurrences. These data do not necessarily represent all habitat occurrences in South Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 498, West Indian falsebox, *Gyminda latifolia*; 1076, Deering's tree cactus, *Pilosocereus polygonus*; 1077, Florida shrubverbena, *Lantana depressa* var. *floridana*; 1088, Bahama brake, *Pteris bahamensis*; 1089, Bahama maidenbush, *Heterosavia bahamensis*; 1090, Bahama sachsia, *Sachsia polycephala*; 1091, Bahama wild coffee, *Psychotria ligustrifolia*; 1092, Beach clustervine, *Jacquemontia reclinata*; 1093, Narrowpod sensitive pea, *Chamaecrista lineata* var. *keyensis*; 1094, Florida bitterbush, *Picramnia pentandra*; 1095, Blodgett's silverbush, *Argythamnia blodgettii*; 1100, Key thatch palm, *Thrinax morrisii*; 1101, Burrowing four o'clock, *Okenia hypogaea*; 1102, Cape Sable whiteweed, *Ageratum maritimum*; 1103, Cape Sable thoroughwort, *Chromolaena frustrata*; 1105, Christmasberry, *Crossopetalum ilicifolium*; 1107, Clinging snakefern, *Microgramma heterophylla*; 1110, Creeping maiden fern, *Thelypteris reptans*; 1111, Clusterspike false indigo, *Amorpha herbacea* var. *crenulata*; 1112, Florida toadwood, *Cupania glabra*; 1113, Wedge sandmat, *Chamaesyce deltoidea* ssp. *Deltoidea*; 1114, Smooth devil's-claws, *Pisonia rotundata*; 1116, Fewflower holdback, *Caesalpinia pauciflora*; 1119, Florida gamagrass, *Tripsacum floridanum*; 1120, Florida prairie clover, *Dalea carthagenensis* var. *floridana*; 1121, Florida royal palm, *Roystonea regia*; 1122, Florida thatch palm, *Thrinax radiata*; 1123, Garber's spurge, *Euphorbia garberi*; 1125, Golden leatherfern, *Acrostichum aureum*; 1126, Pepperleaf sweetwood, *Licaria triandra*; 1127, Hand fern, *Cheiroglossa palmata*; 1130, Joewood, *Jacquinia keyensis*; 1131, Tawnyberry holly, *Ilex krugiana*; 1132, Lamarck's trema, *Trema lamarckiana*; 1133, Least halberd fern, *Tectaria fimbriata*; 1134, Long Key locustberry, *Byrsonima lucida*; 1135, Manchineel, *Hippomane mancinella*; 1136, Mangroveberry, *Mosiera longipes*; 1137, Marsh's dutchman's pipe, *Aristolochia pentandra*; 1138, Meadow jointvetch, *Aeschynomene pratensis*; 1139, Milkbark, *Drypetes diversifolia*; 1140, Limestone spleenwort, *Asplenium verecundum*; 1141, Myrtle of the river, *Calyptanthus zuzugium*; 1142, Pineland clustervine, *Jacquemontia curtissii*; 1143, Florida Keys noseburn, *Tragia saxicola*; 1144, Everglade Key pencilflower, *Stylosanthes calcicola*; 1146, Porter's sandmat, *Chamaesyce porteri*; 1147, Pride of Big Pine, *Strumpfia maritima*; 1148, Caribbean princewood, *Exostema caribaeum*; 1149, Red stopper, *Eugenia rhombea*; 1150, Maidenberry, *Crossopetalum rhacoma*; 1151, Pineland spurge, *Euphorbia pinetorum*; 1153, Rough strongbark, *Bourreria tomentosa*; 1154, Sand flax, *Linum arenicola*; 1155, sea rosemary, *Tournefortia gnaphalodes*; 1156, Florida silver palm, *Coccothrinax argentata*; 1157, Skyblue clustervine, *Jacquemontia pentanthos*; 1158, Florida hopbush, *Dodonaea viscosa*; 1160, Swartz's snoutbean, *Rhynchosia swartzii*; 1161, Florida Keys thoroughwort, *Koanophyllon villosum*; 1162, Wedge sandmat, *Chamaesyce deltoidea* ssp. *serpyllum*; 1163, West Indian cherry, *Prunus myrtifolia*; 1164, West Indian mahogany, *Swietenia mahagoni*; 1165, Inkwood, *Hypelate trifoliata*; 1166, Whiteflower passionflower, *Passiflora multiflora*; 1167, Wild cinnamon, *Canella winterana*; 1168, Upland cotton, *Gossypium hirsutum*; 1169, Wild dilly, *Manilkara jaimiqui*; 1171, Florida boxwood, *Schaefferia frutescens*; 1176, White fenrose, *Kosteletzkya depressa*; 1177, Roadside leafbract, *Malachra fasciata*; 1178, Tearshrub, *Vallesia antillana*; 1179, Polynesian peperomia, *Peperomia humilis*; 1180, Buttonwood hammock, n/a; 1181, Hardwood hammock, n/a.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state

that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2011

Title:

FLORIDA NATURAL AREAS INVENTORY, FLORIDA ELEMENT OCCURRENCE

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

HABITATS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SADLE, J. (NATIONAL PARK SERVICE (NPS), EVERGLADES NATIONAL PARK)

Publication_Date:

2013

Title:

ENP SENSITIVE COASTAL HABITATS

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2013

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:
 HABITATS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 SADLE, J. (NATIONAL PARK SERVICE (NPS), EVERGLADES NATIONAL PARK)
Publication_Date:
 2013
Title:
 EVERGLADES NATIONAL PARK PLANTS AND HABITATS
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2013
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 Src_2
Source_Contribution:
 HABITATS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2009
Title:
 KEYS TREE CACTUS FOCUS AREA
Geospatial_Data_Presentation_Form:
 vector digital data
Publication_Information:
Publication_Place:
 VERO BEACH, FL
Publisher:
 UNITED STATES FISH AND WILDLIFE SERVICE (USFWS), SOUTH FLORIDA FIELD
 OFFICE
Source_Scale_Denominator:
 12000
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 Src_3
Source_Contribution:
 HABITATS INFORMATION

*Process_Step:**Process_Description:*

Federally and state threatened/endangered plant occurrences that fell within the study area were included. Data was provided by Florida Natural Areas Inventory (FNAI) for most records, U.S. Fish and Wildlife Service (USFWS) for Keys tree cactus (State endangered /Federally Endangered), and National Park Service (NPS) for species and communities located in Everglades National Park. The above digital and/or hardcopy sources were compiled by the project biologist to create the HABITATS data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the HABITATS data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

[Back To Index](#)*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

1355

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

1356

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

1776

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

99151

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

1563

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

HABITATS.PAT

Entity_Type_Definition:

The HABITATS.PAT table contains attribute information for the vector polygons in this data set representing plants and communities. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (3), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210300002

Range_Domain_Maximum:

2210301512

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000710

Range_Domain_Maximum:

221002114

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (1), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210100002

Range_Domain_Maximum:

2210708909

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:

221002634

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

CONC

Attribute_Definition:

The field CONC refers to "concentration", abundance, or density values for habitats present at a particular site. No quantitative counts were available for habitats, so the concentration field may contain descriptive terms such as "POTENTIAL" or "HISTORIC". If no concentration information was available from any source, the field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORRES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORRES data table to records in the SEASONAL and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BIRD
Enumerated_Domain_Value_Definition:
 Birds
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 FISH
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HABITAT
Enumerated_Domain_Value_Definition:
 Habitats and plants
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 INVERT
Enumerated_Domain_Value_Definition:
 Invertebrates
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 M_MAMMAL
Enumerated_Domain_Value_Definition:
 Marine Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 REPTILE
Enumerated_Domain_Value_Definition:
 Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T_MAMMAL
Enumerated_Domain_Value_Definition:
 Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

algae

Enumerated_Domain_Value_Definition:

Algae

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

coral

Enumerated_Domain_Value_Definition:

Coral

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

crab

Enumerated_Domain_Value_Definition:

Crab

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

diving

Enumerated_Domain_Value_Definition:

Diving bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

dolphin

Enumerated_Domain_Value_Definition:

Dolphin

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

e_nursery

Enumerated_Domain_Value_Definition:

Estuarine nursery fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

e_resident

Enumerated_Domain_Value_Definition:

Estuarine resident fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

echinoderm

Enumerated_Domain_Value_Definition:

Echinoderm

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

fish

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gastropod

Enumerated_Domain_Value_Definition:

Gastropod

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gull_tern

Enumerated_Domain_Value_Definition:

Gull or tern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

hardbottom

Enumerated_Domain_Value_Definition:

Hardbottom

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

insect

Enumerated_Domain_Value_Definition:

Insect

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lobster
Enumerated_Domain_Value_Definition:
 Lobster
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_benthic
Enumerated_Domain_Value_Definition:
 Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_pelagic
Enumerated_Domain_Value_Definition:
 Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 manatee
Enumerated_Domain_Value_Definition:
 Manatee
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

plant

Enumerated_Domain_Value_Definition:

Plant

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

raptor

Enumerated_Domain_Value_Definition:

Raptor

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

reef

Enumerated_Domain_Value_Definition:

Reef

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

sav

Enumerated_Domain_Value_Definition:

Submerged aquatic vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

shorebird

Enumerated_Domain_Value_Definition:

Shorebird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

shrimp

Enumerated_Domain_Value_Definition:

Shrimp

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

sm_mammal

Enumerated_Domain_Value_Definition:

Small mammal

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

snake

Enumerated_Domain_Value_Definition:

Snake

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

turtle

Enumerated_Domain_Value_Definition:

Turtle

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

ungulate

Enumerated_Domain_Value_Definition:

Ungulate

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

upland

Enumerated_Domain_Value_Definition:

Upland vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

waterfowl

Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NHP

Attribute_Definition:

Natural Heritage Program global ranking.

Attribute_Definition_Source:

Network of Natural Heritage Program

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name:

NHP Global Conservation Status Rank

Codeset_Source:

Natural Heritage Program

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g.

ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 SEASON_ID
Attribute_Definition:
 Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1
Range_Domain_Maximum:
 N

Attribute:

Attribute_Label:
 JAN
Attribute_Definition:
 January
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in January
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 FEB
Attribute_Definition:
 February
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in February
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 MAR
Attribute_Definition:
 March
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X

Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X

Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X

Enumerated_Domain_Value_Definition:
 Present in November
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 DEC
Attribute_Definition:
 December
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in December
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 EL_SPE_SEA
Attribute_Definition:
 Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIoRES and BREED data tables.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E#####
Enumerated_Domain_Value_Definition:
 Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B000101').
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:
 BREED
Entity_Type_Definition:
 The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.
Entity_Type_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 EL_SPE_SEA
Attribute_Definition:
 Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIoRES and SEASONAL data tables.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E#####
Enumerated_Domain_Value_Definition:
 Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last

two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = interesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

STATE

Attribute_Definition:

Two-letter state abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

COUNTRY

Attribute_Definition:

Three-letter country abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

S

Attribute_Definition:

State threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F

Attribute_Definition:

Federal threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

S_DATE

Attribute_Definition:

Publication date of source material used to assign state status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F_DATE

Attribute_Definition:

Publication date of source material used to assign federal status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

Publication date of source material used to assign international status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORES and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 DATE_PUB
Attribute_Definition:
 Date of source material, publication, or date of personal communication with expert source.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 YYYYMM
Enumerated_Domain_Value_Definition:
 YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 TITLE
Attribute_Definition:
 Title of source material or data.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 DATA_FORMAT
Attribute_Definition:
 The format of the source material.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 PUB_PLACE
Attribute_Definition:
 Publication place.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 PUBLISHER
Attribute_Definition:
 Publisher.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, HABITATS) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables (described in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact

version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name:

Multiple formats

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

http://response.restoration.noaa.gov/esi_download

Fees:

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:

Metadata_Date:

20140617

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: BENTHIC (Benthic Polygons)

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator:

National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington.

Originator:

Department of Homeland Security, U.S. Coast Guard, Office of Incident Management and Preparedness, Washington, D.C.

Originator:

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

Publication_Date:

201304

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: South Florida: BENTHIC (Benthic Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

South Florida

Issue_Identification:

South Florida

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington.

Online_Linkage:

<http://response.restoration.noaa.gov/esi>

Online_Linkage:

http://response.restoration.noaa.gov/esi_download

Online_Linkage:

http://response.restoration.noaa.gov/esi_guidelines

Description:

Abstract:

This data set contains benthic habitats, including coral reef and hardbottom, seagrass, algae, and others in [for] South

Florida. Vector polygons in the data set represent the distribution of benthic habitats. This data set comprises a portion of the ESI data for South Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1994

Ending_Date:

2013

Currentness_Reference:

The data were compiled during 2011-2013. The currentness dates for the data range from 1994 to 2013 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-82.93300

East_Bounding_Coordinate:

-80.00000

North_Bounding_Coordinate:

26.37500

South_Bounding_Coordinate:

24.50000

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Benthic

*Theme:**Theme_Keyword_Thesaurus:*

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

*Place:**Place_Keyword_Thesaurus:*

None

Place_Keyword:

South Florida

Access_Constraints:

None

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

*Browse_Graphic:**Browse_Graphic_File_Name:*http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig.jpg*Browse_Graphic_File_Description:*

Depicts the relationships between spatial data layers and attribute data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/SouthFlorida_2013_datafig2.jpg*Browse_Graphic_File_Description:*

Depicts the relationships between spatial data layers and desktop data tables for the South Florida ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness, Washington, D.C.; and the Fish and Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC), St. Petersburg, Florida.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 10.0) and SQL SERVER(R) (version 2005). The hardware configuration is PCs with Windows Operating System 7. The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: benthic.e00, birds.e00, esil.e00, esip.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, mgt_fish.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, mgt_fish_dat.e00, mgt_fish_lut.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

[Back To Index](#)*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC) process, and multiple automated logical

consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. After the data are delivered to NOAA, they are again subjected to a number of quality and consistency checks.

Completeness_Report:

These data represent digital data sets representing benthic habitats (coral reef, hardbottom, seagrass, etc.). The following species are included in this data set: (Species_ID, Common Name, Scientific Name [if applicable]): 85, Seagrass; 1028, Algae; 1032, Rock reef; 1034, Coral patch reef; 1078, Aggregate reef; 1079, Linear reef; 1080, Pavement; 1081, Reef rubble; 1082, Reef terrace; 1083, Remnant; 1084, Ridge; 1085, Live coral; 1086, Spur and groove; 1087, Wormrock; 1098, Elkhorn coral, Acropora palmata; 1099, Staghorn coral, Acropora cervicornis; 1174, Johnson's seagrass, Halophila johnsonii; 1175, Unconsolidated sediments; and 1182, Patch reef.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION (FWC)

Publication_Date:

2012

Title:

INTEGRATED FLORIDA REEF TRACT BENTHIC MAP

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

BENTHIC INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL MARINE FISHERIES SERVICE (NFMS), NATIONAL COASTAL DATA
DEVELOPMENT CENTER (NCDDC)

Publication_Date:

1999

Title:

JOHNSON'S SEAGRASS CRITICAL HABITAT

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

STENNIS SPACE CENTER, MS

Publisher:

NATIONAL MARINE FISHERIES SERVICE (NMFS) NATIONAL COASTAL DATA
DEVELOPMENT CENTER (NCDDC)

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1999

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

BENTHIC INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION (NOAA), SOUTHEAST
FISHERIES SCIENCE CENTER (SEFSC)

Publication_Date:

2011

Title:

DENSITIES OF COMMON REEF FISH BY GEOGRAPHIC REGION, HABITAT AND
PROTECTION STATUS FROM THE REEF VISUAL CENSUS DATABASE

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

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Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

BENTHIC INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNIVERSITY OF MIAMI, ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC
SCIENCE

Publication_Date:
2006

Title:
BENTHIC HABITAT MAP FOR THE DRY TORTUGAS REGION

Geospatial_Data_Presentation_Form:
vector digital data

Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
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2006

Source_Currentness_Reference:
DATE OF SURVEY

Source_Citation_Abbreviation:
Src_3

Source_Contribution:
BENTHIC INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
WIRT, K., FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND
WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:
2009

Title:
ACROPORA PALMATA PRESENT

Geospatial_Data_Presentation_Form:
vector digital data

Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
REMOVABLE DISK

Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF SURVEY

Source_Citation_Abbreviation:
Src_4

Source_Contribution:
BENTHIC INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
WIRT, K., FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI), FLORIDA FISH AND
WILDLIFE CONSERVATION COMMISSION (FWC)

Publication_Date:
2009

Title:
ACROPORA CERVICORNIS PRESENT

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

REMOVABLE DISK

*Source_Time_Period_of_Content:**Time_Period_Information:**Single_Date/Time:**Calendar_Date:*

2009

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

BENTHIC INFORMATION

*Process_Step:**Process_Description:*

The main source of data used to depict habitat distribution and seasonality for this data layer were digital data sets provided by Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute (FWC-FWRI), National Marine Fisheries Service (NMFS), and University of Miami Rosenstiel School of Marine and Atmospheric Science. FWRI provided the Unified Florida Reef Tract Map for use as the primary benthic marine habitat layer in the South Florida ESI. This map provides common class values for five levels of thematic detail, UC Level 0 – 4, allowing for flexibility in the scope of analysis. In order to maintain a level of detail commensurate with oil spill response and planning, we chose to display UC Level 3 in the ESI. The classification schema included attributes describing both the geological formation and biological communities associated with each feature, when available. FWRI provided point locations for elkhorn coral (*Acropora palmata*) and staghorn coral (*Acropora cervicornis*) depicting observations of these two species (presence/absence) from surveys conducted between 1996-2009. For display in the South Florida ESI, the points were buffered by 10 m to create small polygons. Additional data from NOAA and FWRI was used to map benthic habitats in the Dry Tortugas Ecological Reserves.

Process_Date:

201304

*Process_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

NOAA, Office of Response and Restoration

Contact_Person:

ESI Manager

*Contact_Address:**Address_Type:*

Physical address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

orr.esi@noaa.gov

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

GT-polygon composed of chains

Point_and_Vector_Object_Count:

24768

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

24769

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

63187

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

2763581

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

53845

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*Spatial_Reference_Information:**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 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BENTHIC.PAT

Entity_Type_Definition:

The BENTHIC.PAT table contains attribute information for the vector polygons in this data set representing benthic habitat distribution. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (3), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

2210301517

Range_Domain_Maximum:

2210329174

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221001709

Range_Domain_Maximum:

221001903

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

221000001

Range_Domain_Maximum:
221002634

Attribute:

Attribute_Label:
ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (221), element number (3), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
2210100002

Range_Domain_Maximum:
2210708909

Detailed_Description:

Entity_Type:

Entity_Type_Label:
BIORES

Entity_Type_Definition:

The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
RARNUM

Attribute_Definition:

An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
221000001

Range_Domain_Maximum:
221002634

Attribute:

Attribute_Label:
SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
1

Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
CONC

Attribute_Definition:

The field CONC refers to "concentration", abundance, or density values for benthic habitats present at a particular site. The field may contain a percent range of counts (XX%-XX%). In cases where no quantitative count information was available, the field may contain descriptive terms related to abundance (e.g., HIGH, VERY-HIGH), continuity (e.g., CONTINUOUS, DISCONTINUOUS, SCATTERED), relief (e.g., HIGH-RELIEF, LOW-RELIEF), or presence (e.g., POTENTIAL). If no concentration information was available from any source, the field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

Geographic source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
 BIRD
Enumerated_Domain_Value_Definition:
 Birds
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 FISH
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HABITAT
Enumerated_Domain_Value_Definition:
 Habitats and plants
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 INVERT
Enumerated_Domain_Value_Definition:
 Invertebrates
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 M_MAMMAL
Enumerated_Domain_Value_Definition:
 Marine mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 REPTILE
Enumerated_Domain_Value_Definition:
 Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T_MAMMAL
Enumerated_Domain_Value_Definition:
 Terrestrial mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 EL_SPE

Attribute_Definition:
 Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORRES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 GEN_SPEC

Attribute_Definition:
 Species scientific name for the entire ESI data set.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 ELEMENT

Attribute_Definition:
 Major categories of biological data.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 BIRD
Enumerated_Domain_Value_Definition:
 Birds
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 FISH
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HABITAT
Enumerated_Domain_Value_Definition:
 Habitats and plants
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 INVERT
Enumerated_Domain_Value_Definition:
 Invertebrates
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 M_MAMMAL
Enumerated_Domain_Value_Definition:
 Marine Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 REPTILE
Enumerated_Domain_Value_Definition:
 Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T_MAMMAL
Enumerated_Domain_Value_Definition:
 Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 SUBELEMENT
Attribute_Definition:
 Element subgroup delineating a logical grouping of species.
Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 algae
Enumerated_Domain_Value_Definition:
 Algae
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 alligator
Enumerated_Domain_Value_Definition:
 Alligator
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 coral
Enumerated_Domain_Value_Definition:
 Coral
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 crab
Enumerated_Domain_Value_Definition:
 Crab
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 diving
Enumerated_Domain_Value_Definition:

Diving bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 dolphin
Enumerated_Domain_Value_Definition:
 Dolphin
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 e_nursery
Enumerated_Domain_Value_Definition:
 Estuarine nursery fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 e_resident
Enumerated_Domain_Value_Definition:
 Estuarine resident fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 echinoderm
Enumerated_Domain_Value_Definition:
 Echinoderm
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 fish
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gastropod
Enumerated_Domain_Value_Definition:
 Gastropod
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gull_tern
Enumerated_Domain_Value_Definition:
 Gull or tern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
 hardbottom
Enumerated_Domain_Value_Definition:
 Hardbottom
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 insect
Enumerated_Domain_Value_Definition:
 Insect
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lobster
Enumerated_Domain_Value_Definition:
 Lobster
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_benthic
Enumerated_Domain_Value_Definition:
 Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 m_pelagic
Enumerated_Domain_Value_Definition:
 Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 manatee
Enumerated_Domain_Value_Definition:

Manatee
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 plant
Enumerated_Domain_Value_Definition:
 Plant
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 raptor
Enumerated_Domain_Value_Definition:
 Raptor
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 reef
Enumerated_Domain_Value_Definition:
 Reef
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sav
Enumerated_Domain_Value_Definition:
 Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 shorebird
Enumerated_Domain_Value_Definition:
 Shorebird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
 shrimp
Enumerated_Domain_Value_Definition:
 Shrimp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 sm_mammal
Enumerated_Domain_Value_Definition:
 Small mammal
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 snake
Enumerated_Domain_Value_Definition:
 Snake
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 turtle
Enumerated_Domain_Value_Definition:
 Turtle
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 ungulate
Enumerated_Domain_Value_Definition:
 Ungulate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 upland
Enumerated_Domain_Value_Definition:
 Upland vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 wading
Enumerated_Domain_Value_Definition:
 Wading bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 waterfowl
Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NHP

Attribute_Definition:

Natural Heritage Program global ranking.

Attribute_Definition_Source:

Network of Natural Heritage Program

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name:

NHP Global Conservation Status Rank

Codeset_Source:

Natural Heritage Program

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g.

ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

JAN

Attribute_Definition:

January

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in January

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

FEB

Attribute_Definition:

February

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in February
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in October
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 NOV
Attribute_Definition:
 November
Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in November
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 DEC
Attribute_Definition:
 December
Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 X
Enumerated_Domain_Value_Definition:
 Present in December
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 EL_SPE_SEA
Attribute_Definition:
 Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIoRES and BREED data tables.
Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E#####
Enumerated_Domain_Value_Definition:
 Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Detailed_Description:

Entity_Type:
Entity_Type_Label:
 BREED
Entity_Type_Definition:

The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIORRES and SEASONAL data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED2

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED3

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = interesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

Breed category not used or not appropriate for record(s) in question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

STATUS

Entity_Type_Definition:

The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 COUNTRY
Attribute_Definition:
 Three-letter country abbreviation.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 S
Attribute_Definition:
 State threatened or endangered status.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E
Enumerated_Domain_Value_Definition:
 Endangered on state list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T
Enumerated_Domain_Value_Definition:
 Threatened on state list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 C
Enumerated_Domain_Value_Definition:
 Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:

Attribute_Label:
 F
Attribute_Definition:
 Federal threatened or endangered status.

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E
Enumerated_Domain_Value_Definition:
 Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 T
Enumerated_Domain_Value_Definition:
 Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 C
Enumerated_Domain_Value_Definition:
 Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 I
Attribute_Definition:
 International threatened or endangered status.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 E
Enumerated_Domain_Value_Definition:
 Endangered on international list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T
Enumerated_Domain_Value_Definition:
 Threatened on international list
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 C
Enumerated_Domain_Value_Definition:
 Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 S_DATE
Attribute_Definition:
 Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 YYYYMM
Enumerated_Domain_Value_Definition:
 YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

F_DATE

Attribute_Definition:

Publication date of source material used to assign federal status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

I_DATE

Attribute_Definition:

Publication date of source material used to assign international status values for each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

Concatenation of ELEMENT and SPECIES_ID. This item links the STATUS data table to the BIORES and SPECIES data tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Detailed_Description:**Entity_Type:**Entity_Type_Label:*

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORRES table; G_SOURCE and A_SOURCE in the MGT_FISH_DAT table; SOURCE_ID and ESI_SOURCE in the ESIL data layer; ESI_SOURCE in the ESIP data layer; and SOURCE_ID in the HYDRO data layer.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables (BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS) are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, BENTHIC) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the South Florida atlas, the number is 221), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables (described in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

Distributor:

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Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration (NOAA), no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format. If problems are encountered in downloading the ESI data or with file corruption, contact NOAA (see Distributor). These data represent a snapshot in time and temporal changes may have occurred. The data are not intended to include all biological or human-use resources present in an area; they focus on species and resources particularly sensitive to oiling. In the event of a spill, they should be used for a first assessment only. The data providers are the experts with regard to individual resources. They should be contacted to confirm if more current data exist or if in-depth information is needed about a particular resource.

*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Format_Name:*

Multiple formats

*Digital_Transfer_Option:**Online_Option:**Computer_Contact_Information:**Network_Address:**Network_Resource_Name:*http://response.restoration.noaa.gov/esi_download*Fees:*

None

Custom_Order_Process:

Contact NOAA if you require the ESI data be provided to you on CD/DVD (see Distributor). ESI data are processed into multiple formats to make them useful to a wider community of GIS/mapping users. Distribution formats include ARC export files, Shapefiles, and a file Geodatabase (the recommended format). The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

[Back To Index](#)*Metadata_Reference_Information:**Metadata_Date:*

20140615

*Metadata_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:*

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Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

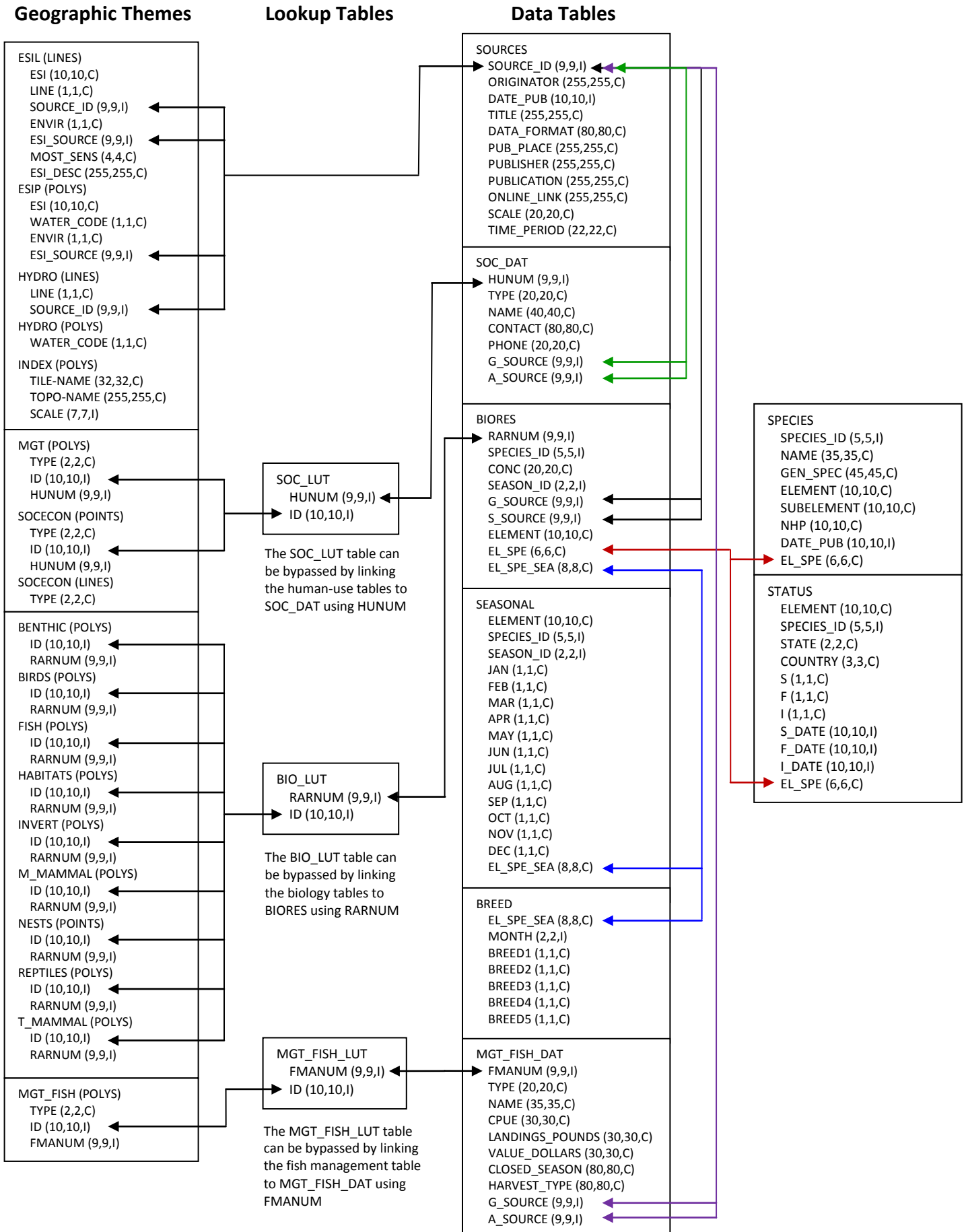
Metadata_Standard_Version:

FGDC-STD-001-1998

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South Florida ESI – April 2013

Entity Relationship Diagram for the Relational Data Tables



South Florida ESI – April 2013

Entity Relationship Diagram for the Desktop / Flat File Approach

