

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: HYDRO (Hydrography Lines and 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:

201208

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 the Florida Panhandle. This data set comprises a portion of the ESI data for the Florida Panhandle. 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, ESIP (ESI shoreline polygons) and ESIL (ESI shoreline lines), part of the larger Florida Panhandle 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:

2003

Ending_Date:

2010

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 2003 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhandle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 the Florida Panhandle. See also the data layers, ESIP (ESI shoreline polygons) and ESIL (ESI shoreline lines), part of the larger Florida Panhandle 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:

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

Publication_Date:

2010

Title:

FWC_IMAGERY_WEB

Geospatial_Data_Presentation_Form:

raster digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE, FLORIDA FISH AND
WILDLIFE CONSERVATION COMMISSION

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:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Publication_Date:

2009

Title:

LAND USE LAND COVER NORTHWEST FLORIDA WATER MANAGEMENT
DISTRICT 2004

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FLORIDA

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)

Online_Linkage:

<http://www.dep.state.fl.us/gis/datadir.htm>

Source_Scale_Denominator:

12000

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2003

Ending_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RESEARCH PLANNING, INC. (RPI)

Publication_Date:

2010

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:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

*Citation_Information:**Originator:*

SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD)

Publication_Date:

2008

Title:

SRWMD 2004 LAND USE

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

TALLAHASSEE, FLORIDA

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)

Online_Linkage:<http://www.srwmd.state.fl.us/index.aspx?NID=319>*Source_Scale_Denominator:*

12000

Type_of_Source_Media:

online

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

2003

Ending_Date:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

HYDRO INFORMATION

*Process_Step:**Process_Description:*

The shoreline of the HYDRO data layer was constructed from three primary data sets: 1) the FWRI_fl_12k_2004_Panhandle data provided by Florida Fish and Wildlife Conservation Commission, 2) the Suwannee River Water Management District (SRWMD) 2004 Land Use data, and 3) the Northwest Florida Water Management District 2004 Land Use data. (See the Lineage section for additional information on the type of source data for this data layer.) The data were integrated and visually compared to fwc_imagery from Florida Fish and Wildlife Conservation Commission 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 approximately 1:3,000. 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, the 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. 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:

201208

*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:

4580

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

4581

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

5847

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

511463

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

5818

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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:

H

Enumerated_Domain_Value_Definition:

Hydrography

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

I

Enumerated_Domain_Value_Definition:

Index

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 BIORRES 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats.

Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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Metadata_Reference_Information:

Metadata_Date:

20140609

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: Florida Panhandle: 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:

201208

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 the Florida Panhandle, classified according to the Environmental Sensitivity Index (ESI) classification system. This data set comprises a portion of the ESI data for the Florida Panhandle. 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 polygons) and HYDRO (Hydrography lines and polygons) data layers, part of the larger Florida Panhandle 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:

2003

Ending_Date:

2010

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 2003 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

<http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata>

[/FloridaPanhdle_2012_datafig2.jpg](#)

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 Florida Panhandle ESI database, for additional ESI 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:

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

Publication_Date:

2010

Title:

FWC_IMAGERY_WEB

Geospatial_Data_Presentation_Form:

raster digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE, FLORIDA FISH AND
WILDLIFE CONSERVATION COMMISSION

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:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

ESI INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Publication_Date:

2009

Title:

LAND USE LAND COVER NORTHWEST FLORIDA WATER MANAGEMENT
DISTRICT 2004

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FLORIDA

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)

Online_Linkage:

<http://www.dep.state.fl.us/gis/datadir.htm>

Source_Scale_Denominator:

12000

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2003

Ending_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

ESI INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RESEARCH PLANNING, INC. (RPI)

Publication_Date:

2010

Title:

STUDY AREA BOUNDARY

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

VECTOR DIGITAL DATA

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:

ESI INFORMATION

Source_Information:

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

SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD)

Publication_Date:

2008

Title:

SRWMD 2004 LAND USE

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

TALLAHASSEE, FLORIDA

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)

Online_Linkage:<http://www.srwmd.state.fl.us/index.aspx?NID=319>*Source_Scale_Denominator:*

12000

Type_of_Source_Media:

online

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

2003

Ending_Date:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

ESI INFORMATION

*Process_Step:**Process_Description:*

Original ESI maps were re-examined and fully updated using the sources and methods described below. The intertidal shoreline habitats of the Florida Panhandle were mapped via interpretation of a continuous, overlapping sets of georeferenced oblique aerial photographs. These photographs were acquired for the counties of Okaloosa, Walton, Gulf, Franklin, Wakulla, Jefferson, and Taylor in April 2010 during overflights conducted 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. Continuous, overlapping set of georeferenced oblique aerial photographs for the counties of Escambia, Santa Rosa, and Bay were obtained from 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:

201208

*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:

35679

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

35680

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

104332

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

1747627

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

89523

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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:

ESI.PAT

Entity_Type_Definition:

The ESI.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:

Sand Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

9A

Enumerated_Domain_Value_Definition:

Mud 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:

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; 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 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).

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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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

*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: Florida Panhandle: 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:

201208

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 the Florida Panhandle, classified according to the Environmental Sensitivity Index (ESI) classification system. This data set comprises a portion of the ESI data for the Florida Panhandle. 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 Florida Panhandle 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:

2003

Ending_Date:

2010

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 2003 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

<http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata>

[/FloridaPanhdle_2012_datafig2.jpg](#)

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 Florida Panhandle 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:

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

Publication_Date:

2010

Title:

FWC_IMAGERY_WEB

Geospatial_Data_Presentation_Form:

raster digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FISH AND WILDLIFE RESEARCH INSTITUTE, FLORIDA FISH AND
WILDLIFE CONSERVATION COMMISSION

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:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

ESI INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Publication_Date:

2009

Title:

LAND USE LAND COVER NORTHWEST FLORIDA WATER MANAGEMENT

DISTRICT 2004

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FLORIDA

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)

Online_Linkage:

<http://www.dep.state.fl.us/gis/datadir.htm>

Source_Scale_Denominator:

12000

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2003

Ending_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

ESI INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PICTOMETRY INTERNATIONAL CORP.

Publication_Date:

2010

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 SURVEY

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

ESI 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

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:

ESI INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD)

Publication_Date:

2008

Title:

SRWMD 2004 LAND USE

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FLORIDA

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)

Online_Linkage:

<http://www.srwmd.state.fl.us/index.aspx?NID=319>

Source_Scale_Denominator:

12000

Type_of_Source_Media:

ONLINE

Source_Time_Period_of_Content:

Time_Period_Information:

*Range_of_Dates/Times:**Beginning_Date:*

2003

Ending_Date:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

ESI INFORMATION

*Process_Step:**Process_Description:*

Original ESI maps were re-examined and fully updated using the sources and methods described below. The intertidal shoreline habitats of the Florida Panhandle were mapped via interpretation of a continuous, overlapping sets of georeferenced oblique aerial photographs. These photographs were acquired for the counties of Okaloosa, Walton, Gulf, Franklin, Wakulla, Jefferson, and Taylor in April 2010 during overflights conducted 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. Continuous, overlapping set of georeferenced oblique aerial photographs for the counties of Escambia, Santa Rosa, and Bay were obtained from 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:

201208

*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:
 12005
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Link
Point_and_Vector_Object_Count:
 425564
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Node, planar graph
Point_and_Vector_Object_Count:
 12050

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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:

ESI.AAT

Entity_Type_Definition:

The ESI.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:

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:

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_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

3B

Enumerated_Domain_Value_Definition:

Scarps and Steep Slopes in Sand

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

4

Enumerated_Domain_Value_Definition:

Coarse-grained Sand Beaches

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

5

Enumerated_Domain_Value_Definition:

Mixed Sand and Gravel Beaches

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

6A

Enumerated_Domain_Value_Definition:

Gravel Beaches

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

6B

Enumerated_Domain_Value_Definition:

Riprap

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

7

Enumerated_Domain_Value_Definition:

Sand Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

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

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

8B

Enumerated_Domain_Value_Definition:

Sheltered, Solid Man-made Structures

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

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:

Mud 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:

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:

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:

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

*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

*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; 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).

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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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

*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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Metadata:

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 - [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:

201208

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 the Florida Panhandle. This data set comprises a portion of the ESI data for the Florida Panhandle. 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:*

1993

Ending_Date:

2003

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 1993 to 2003 and are documented in the Lineage section.

*Status:**Progress:*

Complete

Maintenance_and_Update_Frequency:

None Scheduled

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

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

*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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 the boundaries of all hardcopy cartographic products and digital data extents produced as part of the Florida Panhandle 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:

200308

Title:

ENVIRONMENTAL SENSITIVITY INDEX HYDROGRAPHY
FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FLORIDA MARINE RESEARCH INSTITUTE, FLORIDA
FISH AND WILDLIFE CONSERVATION COMMISSION

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:

ALLANTON, FLA. (1978); APALACHICOLA, FLA. (1982); BAY HEAD, FLA. (1982); BEACON BEACH, FLA. (1982); BEACON HILL, FLA. (1982); BEVERLY, FLA. (1981); BUNKER, FLA. (1976); CAPE SAN BLAS, FLA. (1992); CAPE ST. GEORGE, FLA. (1982); CARRABELLE, FLA. (1992); CHOCTAW BEACH, FLA. (1976); COBB ROCKS, FLA. (1992); CROOKED ISLAND, FLA. (1992); DESTIN, FLA. (1987); DOG ISLAND, FLA. (1992); FORT BARRANCAS, FLA. (1992); FORT WALTON BEACH, FLA. (1992); FREEPORT, FLA. (1976); GARCON POINT, FLA. (1992); GOOSE ISLAND, FLA. (1992); GRAYTON BEACH, FLA. (1976); GREEN POINT, FLA. (1982); GULF BREEZE, FLA. (1992); HOLLEY, FLA. (1992); INDIAN PASS, FLA. (1982); LAGUNA BEACH, FLA. (1982); LIGHTHOUSE POINT, FLA. (1992); LILLIAN, FLA.-AL. (1987); LONG POINT, FLA. (1982); MANLIN HAMMOCK, FLA. (1993); MARY ESTHER, FLA. (1987); MCINTYRE, FLA. (1982); MILTON SOUTH, FLA. (1987); MIRAMAR BEACH, FLA. (1976); NAVARRE, FLA. (1987); NEW INLET, FLA. (1981); NICEVILLE, FLA. (1987); ORANGE BEACH, FLA.-AL. (1992); ORIOLE BEACH, FLA. (1992); OVERSTREET, FLA. (1982); PACE, FLA. (1987); PANAMA CITY BEACH, FLA. (1982); PANAMA CITY, FLA. (1982); PENSACOLA, FLA. (1987); PERDIDO BAY, FLA.-AL. (1992); POINT WASHINGTON, FLA. (1992); PORT ST. JOE, FLA. (1992); ROCK ISLANDS, FLA. (1992); SEMINOLE HILLS, FLA. (1982); SNIPE ISLAND, FLA. (1993); SOPCHOPPY, FLA. (1972); SOUTH OF HOLLEY, FLA. (1992); SOUTHPORT, FLA. (1992); SPRAGUE ISLAND, FLA. (1992); SPRING CREEK, FLA. (1992); SPRINGFIELD, FLA. (1982); ST. JOSEPH PENINSULA, FLA. (1982); ST. JOSEPH POINT, FLA. (1992); ST. MARKS, FLA. (1992); ST. TERESA BEACH, FLA. (1992); SUGAR HILL, FLA. (1981); WARD BASIN, FLA. (1987); WEST BAY, FLA. (1992); WEST PASS, FLA. (1992); WEST PENSACOLA, FLA.-AL. (1987).

*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:

201208

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:

67

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

68

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

221

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

13258

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

155

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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:

65

*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:*

-0.0869

Range_Domain_Maximum:

1.6560

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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

Metadata_Reference_Information:

Metadata_Date:

20140609

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: Florida Panhandle: 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:

201208

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 human-use data for Designated Critical Habitats, Management Areas, National Forests, National Park Service properties, Parks, and Wildlife Refuges for the Florida Panhandle. 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 the Florida Panhandle. 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 SOCECON (Socioeconomic Resource Points and Lines) data layer, part of the larger Florida Panhandle 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:*

1979

Ending_Date:

2012

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 1979 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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

Theme:

Theme_Keyword_Thesaurus:

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

Place:

Place_Keyword_Thesaurus:

None

Place_Keyword:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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. 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 digital boundaries for management areas. See also the SOCECON (Socioeconomic Resource Points and Lines) data layer, part of the larger Florida Panhandle ESI database, for additional human-use information. These data do not necessarily represent all management areas in the Florida Panhandle.

*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:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
(FL DEP)

Publication_Date:

2006

Title:

OUTSTANDING FLORIDA WATERS

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Type_of_Source_Media:

FTP SITE

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1979

Ending_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FL DEPT OF AGRICULTURE AND CONSUMER SERVICES,
DIVISION OF AQUACULTURE

Publication_Date:

2011

Title:

AQUACULTURE_LEASE_AREAS_FL_2010

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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FL DEPT OF AGRICULTURE AND CONSUMER SERVICES,
DIVISION OF AQUACULTURE

Publication_Date:

2011

Title:

SHELLFISH HARVESTING AREAS FLORIDA

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:

Range_of_Dates/Times:

Beginning_Date:

1986

Ending_Date:

2009

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2008

Title:
AQUATIC PRESERVES FLORIDA

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:

Publication_Place:
ST. PETERSBURG

Publisher:
FWRI

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_3

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2008

Title:

GULF STURGEON CRITICAL HABITAT UNITS 1 TO 7 AL, FL,
MS, LA

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

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_4

Source_Contribution:
MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2008

Title:

GULF STURGEON CRITICAL HABITAT UNITS 8 TO 14 AL, FL,
MS, LA

Geospatial_Data_Presentation_Form:

vector digital data

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_5

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2011

Title:

FLORIDA CONSERVATION LANDS (FLMA)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE

Publisher:

FLORIDA NATURAL AREAS INVENTORY

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_6

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

GULF ISLANDS NATIONAL SEASHORE (NPS)

Publication_Date:

2011

Title:

GULF ISLANDS NATIONAL SEASHORE GUI5_BOUNDARY_FL

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

FTP

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_7

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
(NOAA)

Publication_Date:

2010

Title:

MARINE PROTECTED AREAS ATLANTIC OCEAN AND GULF
OF MEXICO POLY

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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_8

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2006

Title:

CHBM_FCH (CHOCTAWHATCHEE BEACH MOUSE CRITICAL HABITAT)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

PANAMA CITY, FL

Publisher:

USFWS

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_9

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2006

Title:

PIPLCH_W_FL_FNL (PIPING PLOVER CRITICAL HABITAT
WESTERN FLORIDA FINAL)

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_10

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2006

Title:

PKBM_FCH (PERDIDO KEY BEACH MOUSE CRITICAL
HABITAT)

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_11

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2006

Title:

SABM_FCH (ST. ANDREW BEACH MOUSE CRITICAL HABITAT)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

PANAMA CITY, FL

Publisher:

USFWS

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_12

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2009

Title:

FLSA_FCH (FLATWOODS SALAMANDER CRITICAL HABITAT)

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2011

Title:

USFWS CADASTRAL GEODATABASE-SIMPLIFIED WILDLIFE
REFUGE BOUNDARIES

Geospatial_Data_Presentation_Form:

tabular digital data

Online_Linkage:

[http://www.fws.gov/GIS/data/CadastralDB
/FWS_Refuge_Boundaries.zip](http://www.fws.gov/GIS/data/CadastralDB/FWS_Refuge_Boundaries.zip)

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_14

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2012

Title:

CRITICAL HABITAT FOR 7 MUSSELS, 2007

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ATLANTA, GA

Publisher:

USFWS

Type_of_Source_Media:

disc

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2007

Ending_Date:

2012

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_15

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ST. MARK'S NATIONAL WILDLIFE REFUGE (USFWS)

Publication_Date:

2009

Title:

REFUGE OUTLINE 09

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_16

Source_Contribution:

MGT INFORMATION

Process_Step:

Process_Description:

Digital polygon coverages provided by the following agencies were used to depict management areas for this data layer: 1) U.S. Fish and Wildlife Service (USFWS) and St. Marks National Wildlife Refuge (NWR), 2) Gulf Islands National Seashore (NPS), 3) Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute (FFWCC-FWRI), 4) FL Department of Environmental Protection (FL DEP), 5) Florida Natural Areas Inventory (FNAI), and 6) NOAA. 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:

201208

*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:

3442

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

3443

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

38529

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

387475

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

35958

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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 management 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:*

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:*

FO

Enumerated_Domain_Value_Definition:

National Forest

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

RF

Enumerated_Domain_Value_Definition:

Recreational Fishing

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 (218), element number (11=MGT), 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:*

2181100002

Range_Domain_Maximum:

2181115521

*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:*

218000347

Range_Domain_Maximum:

218001260

*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:*

218000001

Range_Domain_Maximum:

218001260

*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 (218), 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:*

2181000001

Range_Domain_Maximum:

2181115521

*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:*

218000001

Range_Domain_Maximum:

218001260

*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:*

ARCHAEOLOGICAL SITE

Enumerated_Domain_Value_Definition:

Archaeological Site

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:

COMMERCIAL FISHING

Enumerated_Domain_Value_Definition:

Commercial Fishing

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:

DIVING

Enumerated_Domain_Value_Definition:

Diving Site

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:

NATIONAL FOREST

Enumerated_Domain_Value_Definition:

National Forest

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:

OIL FACILITY

Enumerated_Domain_Value_Definition:

Oil Facility

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; 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:*

Two relational attribute or data tables, SOC_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) 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 Florida Panhandle, the number is 218). ID is a unique combination of the atlas number (218), 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).

[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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

*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: Florida Panhandle: 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:

201208

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 (e.g., abandoned vessels, access points, airports, aquaculture sites, archaeological sites, artificial reefs, beaches, boat ramps, coast guard areas, commercial fishing, diving sites, historical sites, marinas, oil facilities, ports, recreational fishing, and water intakes) for the Florida Panhandle. 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 the Florida Panhandle. 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 MGT (Management Area Polygons) data layer, part of the larger Florida Panhandle 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 2010-2012. 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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

Theme:

Theme_Keyword_Thesaurus:

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

Place:

Place_Keyword_Thesaurus:

None

Place_Keyword:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 and expert knowledge on socioeconomic resources. See also the MGT (Management Area Polygons) data layer, part of the larger Florida Panhandle ESI database, for additional human-use information. These data do not necessarily represent all human-use sites in the Florida Panhandle.

*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:

ALEXANDER, S., FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FL DEP)

Publication_Date:

2011

Title:

AQUATIC PRESERVE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ESRI

Publication_Date:

2005

Title:

AIRPORTS_GDT_ESRI

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

REDLANDS, CALIFORNIA, USA

Publisher:

ESRI

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 PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER
SERVICES, DIVISION OF AQUACULTURE

Publication_Date:

2011

Title:

FL_LIVEROCK_LEASE_LOCATIONS-(CORAL)

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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2001

Title:

WATER INTAKES

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FLORIDA

Publisher:

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

Type_of_Source_Media:

FTP

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2005

Title:

USCG_STATIONS_GEOCODE_06_2005

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:

2005

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2006

Title:

BEACH ACCESS FLORIDA

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:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2007

Title:

UNDERWATER ARCHAEOLOGICAL PRESERVES FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FWC-FWRI

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_6

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2008

Title:

MOBACP_FACILITIES (MOBILE ACP FACILITIES)

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:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_7

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2008

Title:

PANHANDLE ESI BOAT RAMPS 2008

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FFWCC-FWRI

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_8

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2009

Title:

FISHING PIERS, JETTIES AND BEACHES FLORIDA

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FWC-FWRI

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_9

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2010

Title:

SHIPWRECKS AND OBSTRUCTIONS COASTAL WATERS
SOUTHEAST UNITED STATES

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:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_10

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

2011 PANHANDLE ESI SOCECON MARINAS

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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_11

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

ARTIFICIAL REEFS 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_12

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

FL_ESI_HISTORIC_PROPERTIES_AUG_2011

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FFWCC - FWRI (FISH AND WILDLIFE RESEARCH
INSTITUTE)

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_13

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

PANHANDLE_ESI_BOATRAMPS_2011

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:

Range_of_Dates/Times:

Beginning_Date:

2011

Ending_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

PANHANDLE_ESI_REC_BEACHES_2011

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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_15

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NICHOLAS, M., NATIONAL PARK SERVICE, GULF ISLANDS
NATIONAL SEASHORE

Publication_Date:

2011

Title:

GULF ISLANDS NATIONAL SEASHORE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_16

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

TURPIN, R. (ESCAMBIA COUNTY)

Publication_Date:

2012

Title:

ESCAMBIA COUNTY 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_17

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

US ARMY CORPS OF ENGINEERS (USACOE)

Publication_Date:

2000

Title:

COMMERCIAL_PORTS_FL_USACOE_2000

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

FTP

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

2000

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_18

Source_Contribution:

SOCECON INFORMATION

*Process_Step:**Process_Description:*

Two main sources of data were used to depict human-use resources for this data layer: 1) personal interviews with resource experts from Escambia County, and 2) digital data provided by: Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute (FWC-FWRI), Environmental Systems Research Institute (ESRI), and U.S. Army Corps of Engineers (ACOE). 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:

201208

*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:
 135
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Link
Point_and_Vector_Object_Count:
 246
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Entity point
Point_and_Vector_Object_Count:
 2146
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Node, planar graph
Point_and_Vector_Object_Count:
 270

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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 abandoned vessels, access points, airports, aquaculture sites, archaeological sites, artificial reefs, beaches, boat ramps, coast guard areas, commercial fishing, diving sites, historical sites, marinas, oil facilities, ports, recreational fishing, 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. 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. 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:

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:

AS

Enumerated_Domain_Value_Definition:

Archaeological Site

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:

CF

Enumerated_Domain_Value_Definition:

Commercial Fishing

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:

DV

Enumerated_Domain_Value_Definition:

Diving Site

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:

OF

Enumerated_Domain_Value_Definition:

Oil Facility

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 (218), element number (10), and record number.

Attribute_Definition_Source:

NOAA

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

2181000001

Range_Domain_Maximum:

2181002146

*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:*

218000001

Range_Domain_Maximum:

218000674

*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:

218000001

Range_Domain_Maximum:

218001260

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 (218), element number (10), 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:

2181000001

Range_Domain_Maximum:

2181115521

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:*

218000001

Range_Domain_Maximum:

218001260

*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:

ARCHAEOLOGICAL SITE

Enumerated_Domain_Value_Definition:

Archaeological Site

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:

COMMERCIAL FISHING

Enumerated_Domain_Value_Definition:

Commercial Fishing

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:

DIVING

Enumerated_Domain_Value_Definition:

Diving Site

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:

NATIONAL FOREST

Enumerated_Domain_Value_Definition:

National Forest

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:

OIL FACILITY

Enumerated_Domain_Value_Definition:

Oil Facility

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; 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:*

Two relational attribute or data tables, SOC_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 Florida Panhandle, the number is 218). ID is a unique combination of the atlas number (218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

Metadata_Reference_Information:

Metadata_Date:

20140609

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: Florida Panhandle: 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:

201208

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 wading birds, shorebirds, waterfowl, raptors, diving birds, seabirds, passerine birds, and gulls and terns for the Florida Panhandle. Vector polygons in this data set represent bird nesting, wintering, migratory staging and other spatial/temporal 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 the Florida Panhandle. 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 data layer, part of the larger Florida Panhandle 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:*

1972

Ending_Date:

2012

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 1972 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Environmental Sensitivity Index

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

Theme_Keyword:

Shoreline

Place:

Place_Keyword_Thesaurus:

None

Place_Keyword:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 "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, available hardcopy documents, survey data, maps, and digital data on bird nesting, wintering, migratory staging and other spatial/temporal concentration areas. See also the NESTS data layer, part of the larger Florida Panhandle ESI database, for additional bird information. These data do not necessarily represent all bird occurrences in Florida Panhandle. 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*; 8, Double-crested cormorant, *Phalacrocorax auritus*; 12, Canada goose, *Branta canadensis*; 15, Snow goose, *Chen caerulescens*; 16, Mallard, *Anas platyrhynchos*; 17, Northern pintail, *Anas acuta*; 18, Green-winged teal, *Anas crecca*; 20, Northern shoveler, *Anas clypeata*; 21, Canvasback, *Aythya valisineria*; 23, Lesser scaup, *Aythya affinis*; 24, Common goldeneye, *Bucephala clangula*; 26, Bufflehead, *Bucephala albeola*; 27, Long-tailed duck, *Clangula hyemalis*; 33, Red-breasted merganser, *Mergus serrator*; 34, American coot, *Fulica americana*;

38, Herring gull, *Larus argentatus*; 40, Ring-billed gull, *Larus delawarensis*; 45, Common tern, *Sterna hirundo*; 54, Great blue heron, *Ardea herodias*; 55, Whimbrel, *Numenius phaeopus*; 58, Greater yellowlegs, *Tringa melanoleuca*; 59, Lesser yellowlegs, *Tringa flavipes*; 60, Red knot, *Calidris canutus*; 62, Least sandpiper, *Calidris minutilla*; 63, Dunlin, *Calidris alpina*; 64, Short-billed dowitcher, *Limnodromus griseus*; 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*; 91, Glossy ibis, *Plegadis falcinellus*; 93, Cattle egret, *Bubulcus ibis*; 94, Tricolored heron, *Egretta tricolor*; 97, Green heron, *Butorides virescens*; 98, Laughing gull, *Larus atricilla*; 107, Peregrine falcon, *Falco peregrinus*; 115, White ibis, *Eudocimus albus*; 118, Brown pelican, *Pelecanus occidentalis*; 120, Yellow-crowned night-heron, *Nyctanassa violacea*; 124, Redhead, *Aythya americana*; 127, Sooty tern, *Onychoprion fuscatus*; 132, Wood stork, *Mycteria americana*; 133, Black skimmer, *Rynchops niger*; 134, Gull-billed tern, *Gelochelidon nilotica*; 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*; 141, American avocet, *Recurvirostra americana*; 142, Black-necked stilt, *Himantopus mexicanus*; 148, Ruddy duck, *Oxyura jamaicensis*; 152, American oystercatcher, *Haematopus palliatus*; 153, Piping plover, *Charadrius melodus*; 154, Wilson's plover, *Charadrius wilsonia*; 155, Willet, *Catoptrophorus semipalmatus*; 162, Gadwall, *Anas strepera*; 163, Reddish egret, *Egretta rufescens*; 167, Northern gannet, *Morus bassanus*; 169, American wigeon, *Anas americana*; 173, American white pelican, *Pelecanus erythrorhynchos*; 180, Ring-necked duck, *Aythya collaris*; 181, Northern harrier, *Circus cyaneus*; 186, American black duck, *Anas rubripes*; 190, Blue-winged teal, *Anas discors*; 191, Wood duck, *Aix sponsa*; 193, Black tern, *Chlidonias niger*; 210, Marbled godwit, *Limosa fedoa*; 211, Mottled duck, *Anas fulvigula*; 220, Merlin, *Falco columbarius*; 265, Whooping crane, *Grus americana*; 277, Seaside sparrow, *Ammodramus maritimus*; 293, Yellowlegs, *Tringa* spp.; 299, Scaup, *Aythya* spp.; 302, Scoters, *Melanitta* spp.; 305, Red-cockaded woodpecker, *Picoides borealis*; 406, Cinnamon teal, *Anas cyanoptera*; 459, Florida burrowing owl, *Athene cunicularia floridana*; 859, Scott's seaside sparrow, *Ammodramus maritimus peninsulae*; 1002, Shorebirds, n/a; 1003, Waterfowl, n/a; 1004, Wading birds, n/a; 1005, Raptors, n/a; 1008, Terns, n/a; 1021, Ducks, 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:*

ALEXANDER, S., FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION (FL DEP)

Publication_Date:

2011

Title:

AQUATIC PRESERVE 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:*

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

BIRDS INFORMATION

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

APALACHICOLA RIVERKEEPER

Publication_Date:

2011

Title:

APALACHICOLA RIVERKEEPER: SAVING AN AMERICAN
TREASURE

Geospatial_Data_Presentation_Form:

vector digital data

Online_Linkage:

<http://www.apalachicolariverkeeper.org>

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:
BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

CHOCTAWHATCHEE AUDUBON SOCIETY (CAS)

Publication_Date:

2010

Title:

CAS SHOREBIRD SURVEY SUMMARY

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:

2010

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_2

Source_Contribution:
BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2010

Title:

BNB (BEACH-NESTING BIRDS)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

Tallahassee, Florida

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Online_Linkage:

<http://legacy.myfwc.com/bnb/>

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_3

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2012

Title:

FLORIDA SHOREBIRD DATABASE SITES FINAL

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_4

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2003

Title:

MIDWINTER WATERFOWL INVENTORY (MWI) FL CORRECTED
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:

1972

Ending_Date:

2003

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2011

Title:

ELEMENT OCCURRENCE POLYGON DATA LAYER

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA NATURAL AREAS INVENTORY

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_6

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

GULF ISLANDS NATIONAL SEASHORE (NPS)

Publication_Date:

2010

Title:

LEAST_TE (LEAST TERN)

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

ftp

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2010

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_7

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

GULF ISLANDS NATIONAL SEASHORE (NPS)

Publication_Date:

2010

Title:

TERNs

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:

2010

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_8

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

GULF ISLANDS NATIONAL SEASHORE, ESCAMBIA COUNTY,
FLORIDA STATE PARKS

Publication_Date:

2012

Title:

GULF ISLANDS NATIONAL SEASHORE/STATE
PARK/ESCAMBIA COUNTY RESOURCES: DISTRIBUTION AND
ABUNDANCE

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_9

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HARVEY, A. (BIG LAGOON STATE PARK)

Publication_Date:

2011

Title:

STATE PARK RESOURCES FOR FLORIDA PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_10

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HIMES, J., FWC-FWRI (FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION-FISH AND WILDLIFE
RESEARCH INSTITUTE)

Publication_Date:

2011

Title:

BIRDS, REPTILES, AMPHIBIANS, AND OTHER PANHANDLE
COASTAL 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_11

Source_Contribution:
BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2009

Title:

FLORIDA'S BIRDS: A FIELD GUIDE AND REFERENCE

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

SARASOTA, FLORIDA

Publisher:

PINEAPPLE PRESS, INC.

Type_of_Source_Media:

PAPER

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:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

KELLY, P., USFWS (U.S. FISH AND WILDLIFE SERVICE)

Publication_Date:

2011

Title:

DISTRIBUTION OF SHOREBIRDS AND OTHER SPECIES IN THE
FL PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

KNUDSEN, RICHARD (FWRI)

Publication_Date:

2011

Title:

DIVING AND RECREATIONAL FISHING SITES IN WATERS OF
FLORIDA PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_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)

Publication_Date:

1995

Title:

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

Geospatial_Data_Presentation_Form:

HARDCOPY MAP

Publication_Information:

Publication_Place:

SEATTLE, WA

Publisher:

NOAA

Other_Citation_Details:

PUBLISHED

Online_Linkage:

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

Source_Scale_Denominator:

50000

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1995

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_15

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PRANTY, B., R.F. NOSS, AND S.SINGH (EDS.)

Publication_Date:

2010

Title:

THE IMPORTANT BIRD AREAS OF FLORIDA, SPECIAL
PUBLICATION NO. 8

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

GAINESVILLE, FLORIDA

Publisher:

FLORIDA ORNITHOLOGICAL SOCIETY

Other_Citation_Details:

AUDUBON OF FLORIDA

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_16

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

REINMAN, JOSEPH (USFWS)

Publication_Date:

2011

Title:

ST. MARKS NATIONAL WILDLIFE REFUGE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_17

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ST. MARKS NATIONAL WILDLIFE REFUGE (USFWS)

Publication_Date:

2007

Title:

ST MARKS NWR BREEDING WIPL PAIRS AND NESTS

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:
 2007
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 Src_18
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 U.S. FISH AND WILDLIFE SERVICE (USFWS)
Publication_Date:
 2010
Title:
 MIDWINTER REDHEAD SURVEY ALONG THE GULF OF
 MEXICO, 1981-2010
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 1981
Ending_Date:
 2010
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 Src_19
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2012

Title:

RED KNOT FOR ESI

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

disc

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2012

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_20

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

USAF EGLIN AIR FORCE BASE

Publication_Date:

2007

Title:

PIPING PLOVER HABITAT

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:

2007

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_21

Source_Contribution:

BIRDS INFORMATION

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

USAF EGLIN AIR FORCE BASE

Publication_Date:

2009

Title:

SNOWY PLOVER MASTER

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

NICEVILLE, FL

Publisher:

U.S. AIR FORCE

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_22

Source_Contribution:

BIRDS INFORMATION

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

WARE, D. AND G. PARSONS (CHOCTAWHATCHEE AUDUBON SOCIETY)

Publication_Date:

2010

Title:

A REPORT ON THE SHOREBIRD SURVEY CONDUCTED BY THE CHOCTAWHATCHEE AUDUBON SOCIETY (3 JUL-9 OCT 2010)

Geospatial_Data_Presentation_Form:

POWERPOINT

Other_Citation_Details:

UNPUBLISHED

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_23

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 the U.S. Fish and Wildlife Service (USFWS), Gulf Islands National Seashore (GINS), Florida Fish and Wildlife Conservation Commission (FFWCC), Florida Department of Environmental Protection (DEP), Florida Audubon, and Big Lagoon State Park; 2) digital data sets and survey data provided by: FFWCC, GINS, USFWS, St. Marks National Wildlife Refuge (NWR), Florida Natural Areas Inventory (FNAI), Eglin Air Force Base; and 3) published and unpublished reports. 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:

201208

*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:

1680

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

1681

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

4325

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

760555

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

3660

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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, wintering, migratory staging and other spatial/temporal 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 (218), 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:*

2180100002

Range_Domain_Maximum:

2180101921

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:

218000001

Range_Domain_Maximum:

218000503

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:

218000001

Range_Domain_Maximum:

218001335

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 (218), 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:*

2180100002

Range_Domain_Maximum:

2183700142

*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:*

218000001

Range_Domain_Maximum:

218001335

*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 BIRDS, NESTS, ADULTS, or PAIRS). In cases where no quantitative count data were available, the field may either be blank or contain descriptive terms, such as "HIGH" or "COMMON" 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 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:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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; 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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*Metadata_Reference_Information:**Metadata_Date:*

20140609

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

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

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

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: Florida Panhandle: 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:

201208

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 wading birds, shorebirds, raptors, diving birds, and gulls and terns in for the Florida Panhandle. 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 the Florida Panhandle. 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 data layer, part of the larger Florida Panhandle 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:

2012

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 1999 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:*

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 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 RARNUM's 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, and digital data on bird nesting and wintering sites. See also the BIRDS data layer, part of the larger Florida Panhandle ESI database, for additional bird information. These data do not necessarily represent all nest occurrences in Florida Panhandle. 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*; 60, Red knot, *Calidris canutus*; 69, Semipalmated plover, *Charadrius semipalmatus*; 70, Killdeer, *Charadrius vociferus*; 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*; 93, Cattle egret, *Bubulcus ibis*; 94, Tricolored heron, *Egretta tricolor*; 98, Laughing gull, *Larus atricilla*; 107, Peregrine falcon, *Falco peregrinus*; 118, Brown pelican, *Pelecanus occidentalis*; 125, Clapper rail, *Rallus longirostris*; 133, Black skimmer, *Rynchops niger*; 134, Gull-billed tern, *Gelochelidon nilotica*; 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*; 152, American oystercatcher,

Haematopus palliatus; 153, Piping plover, Charadrius melodus; 154, Wilson's plover, Charadrius wilsonia; 155, Willet, Catoptrophorus semipalmatus; 174, Golden eagle, Aquila chrysaetos; 193, Black tern, Chlidonias niger; 220, Merlin, Falco columbarius; 225, Marsh wren, Cistothorus palustris; 277, Seaside sparrow, Ammodramus maritimus; 305, Red-cockaded woodpecker, Picoides borealis; 1002, Shorebirds, n/a; 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:

APALACHICOLA RIVERKEEPER

Publication_Date:

2011

Title:

APALACHICOLA RIVERKEEPER: SAVING AN AMERICAN TREASURE

Geospatial_Data_Presentation_Form:

vector digital data

Online_Linkage:

<http://www.apalachicolariverkeeper.org/home0.aspx>

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_0

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2007

Title:

PELICAN_ACTIVE_2007

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:

2007

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2010

Title:

BNB (BEACH-NESTING BIRDS)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Online_Linkage:

<http://legacy.myfwc.com/bnb/>

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_2

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

1999

Title:

WADING BIRD ROOKERIES FLORIDA

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:

1999

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:

EAGLE NESTS 10

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:

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:

2010

Title:

MARSH BIRDS FWC 2010

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:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2012

Title:

FLORIDA SHOREBIRD DATABASE SITES FINAL

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_6

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

GULF ISLANDS NATIONAL SEASHORE (NPS)

Publication_Date:

2010

Title:

WILSON'S PLOVER

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:

2010

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_7

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HARVEY, A. (BIG LAGOON STATE PARK)

Publication_Date:

2011

Title:

STATE PARK RESOURCES FOR FLORIDA PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_8

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HIMES, J., FWC-FWRI (FLORIDA FISH AND WILDLIFE
CONSERVATION COMMISSION-FISH AND WILDLIFE
RESEARCH INSTITUTE)

Publication_Date:

2011

Title:

BIRDS, REPTILES, AMPHIBIANS, AND OTHER PANHANDLE
COASTAL 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_9

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2009

Title:

FLORIDA'S BIRDS A FIELD GUIDE AND REFERENCE

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

SARASOTA, FLORIDA

Publisher:

PINEAPPLE PRESS, INC.

Type_of_Source_Media:

PAPER

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:

KELLY, P., USFWS

Publication_Date:

2011

Title:

DISTRIBUTION OF SHOREBIRDS AND OTHER SPECIES IN THE
FL PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_11

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

KNUDSEN, RICHARD (FWRI)

Publication_Date:

2011

Title:

DIVING AND RECREATIONAL FISHING SITES IN WATERS OF
FLORIDA PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_12

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

REINMAN, JOSEPH (USFWS)

Publication_Date:

2011

Title:

ST. MARKS NATIONAL WILDLIFE REFUGE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ST. MARKS NATIONAL WILDLIFE REFUGE (USFWS)

Publication_Date:

2007

Title:

ST MARKS NWR BREEDING WIPL PAIRS AND NESTS

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:

2007

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_14

Source_Contribution:
NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2012

Title:

RED KNOT FOR ESI

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

disc

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:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ST. MARKS NATIONAL WILDLIFE REFUGE (USFWS)

Publication_Date:

2010

Title:

2010 RCW (RED COCKADED WOODPECKER) CLUSTER
CENTERS

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:

2010

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_16

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

USAF EGLIN AIR FORCE BASE

Publication_Date:

2007

Title:

PIPING PLOVER SIGHTINGS

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

NICEVILLE, FL

Publisher:

U.S. AIR FORCE

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2007

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_17

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ST. MARKS NATIONAL WILDLIFE REFUGE (USFWS)

Publication_Date:

2010

Title:

2010 RCW (RED-COCKADED WOODPECKER) CLUSTER
CENTERS

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:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_18

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ST. MARKS NATIONAL WILDLIFE REFUGE (USFWS)

Publication_Date:

2010

Title:

BALD EAGLE NESTS 2010

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:

2010

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_19

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 the U.S. Fish and Wildlife Service (USFWS), Gulf Islands National Seashore (GINS), Florida Fish and Wildlife Conservation Commission (FFWCC), and Big Lagoon State Park; 2) digital data sets and survey data provided by: FFWCC, GINS, USFWS, St. Marks

National Wildlife Refuge (NWR); and 3) published and unpublished documents. 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:

201208

*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:*

Entity point

Point_and_Vector_Object_Count:

828

[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

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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 (218), element number (5), and record number.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2180500001

Range_Domain_Maximum:

2180500828

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:

218000002

Range_Domain_Maximum:

218000273

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:*

218000001

Range_Domain_Maximum:

218001335

*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 (218), 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:*

2180100002

Range_Domain_Maximum:

2183700142

*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:*

218000001

Range_Domain_Maximum:

218001335

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. The field may contain counts or a range of counts of individuals (XX, or XX BIRDS, NESTS, ADULTS, CHICKS or PAIRS). In cases where no quantitative count data were available, the field may either be blank or contain descriptive terms, such as "HIGH". 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:*

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:*

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_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

wetland

Enumerated_Domain_Value_Definition:

Wetland

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; 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 Florida Panhandle atlas, the number is 218), 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 detail. 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 below, 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 detail below.

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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

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

ESI Manager

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

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

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: Florida Panhandle: 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: FISH (Fish Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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, estuarine, anadromous, and brackish/freshwater fish species for the Florida Panhandle. 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 the Florida Panhandle. 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:*

1985

Ending_Date:

2012

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 1985 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:*

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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.

Point_of_Contact:

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

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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, digital and tabular survey data, hardcopy maps and reports on fish distribution, concentration areas, nursery areas, and spawning areas. These data do not necessarily represent all fish occurrences in Florida Panhandle. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 65, Bluefish, *Pomatomus saltatrix*; 104, Striped bass, *Morone saxatilis*; 107, Spotted seatrout, *Cynoscion nebulosus*; 109, Red drum, *Sciaenops ocellatus*; 110, Black sea bass, *Centropristis striata*; 111, Southern flounder, *Paralichthys lethostigma*; 112, Gulf flounder, *Paralichthys albigutta*; 113, Bay anchovy, *Anchoa mitchilli*; 114, Florida pompano, *Trachinotus carolinus*; 116, Striped mullet, *Mugil cephalus*; 117, Pinfish, *Lagodon rhomboides*; 119, Silver perch, *Bairdiella chrysoura*; 120, Pigfish, *Orthopristis chrysoptera*; 121, Spot, *Leiostomus xanthurus*; 122, Black drum, *Pogonias cromis*; 123, Atlantic croaker, *Micropogonias undulatus*; 126, King mackerel, *Scomberomorus cavalla*; 127, Spanish mackerel, *Scomberomorus maculatus*; 128, Blue runner, *Caranx crysos*; 129, Atlantic thread herring, *Opisthonema oglinum*; 134, Cobia, *Rachycentron canadum*; 136, Dolphin, *Coryphaena hippurus*; 137, Sheepshead, *Archosargus probatocephalus*; 139, Spanish sardine, *Sardinella aurita*; 140, Ladyfish, *Elops saurus*; 142, Crevalle jack, *Caranx hippos*; 143, Tarpon, *Megalops atlanticus*; 163, Gizzard shad, *Dorosoma cepedianum*; 173, White mullet, *Mugil curema*; 179, Largemouth bass, *Micropterus salmoides*; 181, Black crappie, *Pomoxis nigromaculatus*; 182, Bluegill, *Lepomis macrochirus*; 203, Warmouth, *Lepomis gulosus*; 204, Redear sunfish, *Lepomis microlophus*; 213, Gulf menhaden, *Brevoortia patronus*; 215, Sand seatrout, *Cynoscion arenarius*; 269, Gulf killifish, *Fundulus grandis*; 274, Sheepshead minnow, *Cyprinodon variegatus*; 278, Little tunny, *Euthynnus alletteratus*; 287, Hardhead catfish, *Arius felis*; 288, Atlantic tripletail, *Lobotes surinamensis*; 292, Chain pickerel, *Esox niger*; 298, Saltmarsh topminnow, *Fundulus jenkinsi*; 302, Gag, *Mycteroperca microlepis*; 303, Permit, *Trachinotus falcatus*; 305, Red snapper, *Lutjanus campechanus*; 306, Gray snapper, *Lutjanus griseus*; 307, Lane snapper, *Lutjanus synagris*; 308, Rock sea bass, *Centropristis philadelphia*; 310, Atlantic spadefish, *Chaetodipterus faber*; 315, Blacktip shark, *Carcharhinus limbatus*; 316, Spinner shark, *Carcharhinus brevipinna*; 317, Bull shark, *Carcharhinus leucas*; 318, Atlantic sharpnose shark, *Rhizoprionodon terraenovae*; 319, Gulf sturgeon, *Acipenser oxyrinchus desotoi*; 326, Bonnethead shark, *Sphyrna tiburo*; 332, Tiger shark, *Galeocerdo cuvier*; 334, Finetooth shark, *Carcharhinus isodon*; 335, Silversides, n/a; 339, Bluenose shiner, *Pteronotropis welaka*; 347, Round scad, *Decapterus punctatus*; 354, Scamp, *Mycteroperca phenax*; 366, Hogchoker, *Trinectes maculatus*; 367, Alabama shad, *Alosa alabamae*; 368, Yellowfin menhaden, *Brevoortia smithi*; 369, Code goby, *Gobiosoma robustum*; 381, Cusk eels, *Ophidion* spp.; 416, Mojarra, *Diapterus* spp.; 438, Scalloped hammerhead, *Sphyrna lewini*; 464, Longnose gar, *Lepisosteus osseus*; 487, Skates, *Raja* spp.; 495, Gray triggerfish, *Balistes capriscus*; 518, Jewfish, *Epinephelus itajara*; 631, Bigeye scad, *Selar crumenophthalmus*; 638, Wahoo, *Acanthocybium solandri*; 715, Whale shark, *Rhincodon typus*; 776, Red grouper, *Epinephelus morio*; 788, Ballyhoo, *Hemiramphus brasiliensis*; 792, Skipjack tuna, *Katsuwonus pelamis*; 835, Blackfin tuna, *Thunnus atlanticus*; 883, Vermillion snapper, *Rhomboplites aurorubens*; 985, Redbreast sunfish, *Lepomis auritus*; 1015, Rays, n/a; 1017, Grunts, *Haemulidae*; 1018, Porgies, n/a; 1028, Goatfishes, *Mullidae*; 1053, Lizardfishes, n/a; 1141, Flatfish, n/a; 1146, Bluefin tuna, *Thunnus thynnus*; 1147, Searobins, *Prionotus* spp.; 1151, Sunfishes, n/a; 1152, Okaloosa darter, *Etheostoma okaloosae*; 1153, Amberjacks, *Seriola* spp.; 1157, Tonguefish, *Symphurus* spp.;

1158, Kingfishes, *Menticirrhus* spp.; 1159, Smalltooth sawfish, *Pristis pectinata*; 1160, Blacknose shark, *Carcharhinus acronotus*.

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:

ALEXANDER, S., FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FL DEP)

Publication_Date:

2011

Title:

AQUATIC PRESERVE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

BETHEA, D.M., L.S. HOLLENSEAD, J.K. CARLSON, M.J.
AJEMIAN, R.D. GRUBBS, E.R. HOFFMAYER, R. DEL RIO, G.W.
PETERSON, D.M. BALTZ, AND J. ROMINE.

Publication_Date:

2009

Title:

SHARK NURSERY GROUNDS AND ESSENTIAL FISH HABITAT
STUDIES. GULFSPAN GULF OF MEXICO-FY08. REPORT TO
NOAA FISHERIES, HIGHLY MIGRATORY SPECIES DIVISION.

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

PANAMA CITY, FL

Publisher:

NMFS

Online_Linkage:

http://www.sefsc.noaa.gov/labs/panama/documents/pclc_09-02.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:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

DOC NOAA NOS NCCOS CCMA BIOGEOGRAPHY PROGRAM

Publication_Date:

2000

Title:

NOAA'S ESTUARINE LIVING MARINE RESOURCES (ELMR)
DATA BASE

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NOAA'S OCEAN SERVICE, NATIONAL CENTERS FOR
COASTAL OCEAN SCIENCE (NCCOS)

Online_Linkage:

http://www8.nos.noaa.gov/biogeo_public/elmr.aspx

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1985

Ending_Date:

2000

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ESTUARINE MARINE LIVING RESOURCES (ELMR) DATA VIA
FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI)

Publication_Date:

2011

Title:

PANHANDLE_ELMR_SEASONALITY_TABLE.XLSX

Geospatial_Data_Presentation_Form:

spreadsheet

Other_Citation_Details:

UNPUBLISHED

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 COMMUNICATION

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2011

Title:

BLUENOSE SHINER BIOLOGICAL STATUS REVIEW REPORT

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Other_Citation_Details:

12 PP.

Online_Linkage:

<http://myfwc.com/media/2273271/Bluenose-Shiner-BSR.pdf>

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_4

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2011

Title:

SALTMARSH TOPMINNOW BIOLOGICAL STATUS REVIEW

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FWC - FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Other_Citation_Details:

14 PP.

Online_Linkage:

<http://myfwc.com/media/2273379/Saltmarsh-Topminnow-BSR.pdf>

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_5

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

1990

Title:

SPECIES LIFE HISTORIES

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1990

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_6

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2008

Title:

GULF STURGEON CRITICAL HABITAT UNITS 1 TO 7 AL, FL,
MS, LA

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

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_7

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

MARINE FISHERIES TRIP TICKET AREA CODES GDB

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:

2011

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
Src_8

Source_Contribution:
FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2001

Title:

SALTMARSH TOPMINNOW SEASONALITY

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

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_9

Source_Contribution:
FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2011

Title:

ELEMENT OCCURRENCE POLYGON DATA LAYER

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA NATURAL AREAS INVENTORY

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_10

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FNAI (FLORIDA NATURAL AREAS INVENTORY)

Publication_Date:

2001

Title:

FIELD GUIDE TO THE RARE ANIMALS OF FLORIDA

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

http://www.fnai.org/FieldGuide/pdf/Ambystoma_cingulatum.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_11

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HERRINGTON, K., USFWS (UNITED STATES FISH AND WILDLIFE SERVICE)

Publication_Date:

2012

Title:

FLORIDA ESI GULF STURGEON SHAPEFILE

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

PANAMA CITY, FL

Publisher:

USFWS AQUATIC SPECIES CONSULTATION AND RECOVERY

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:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

MATHESON, E. AND R. KNUDSEN, FWC-FWRI (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION-FISH AND WILDIFE RESEARCH INSTITUTE)

Publication_Date:

2011

Title:

DISTRIBUTION AND SEASONALITY FOR FISH AND INVERTS IN GULF OF MEXICO AND FL PANHANDLE BAYS

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

EXPERT KNOWLEDGE BASED ON NUMEROUS PUBLISHED DOCUMENTS

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:
FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
(NOAA)

Publication_Date:

2012

Title:

NATIONAL SAWFISH ENCOUNTER DATABASE, NORTHWEST
FLORIDA 2003-2012 SMALLTOOTH SAWFISH ENCOUNTERS,
MARCH 2012

Geospatial_Data_Presentation_Form:

map

Publication_Information:

Publication_Place:

ST. PETERSBURG, FL

Publisher:

NOAA SOUTHEAST REGIONAL OFFICE PROTECTED
RESOURCES DIVISION

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2003

Ending_Date:

2012

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:

2009

Title:

AMENDMENT 1 TO THE CONSOLIDATED HIGHLY MIGRATORY
SPECIES FISHERIES MANAGEMENT PLAN: CHAPTER 5
ESSENTIAL FISH HABITAT

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

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_15

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 BLACKNOSE SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_16

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 BLACKTIP SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_17

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 BONNETHEAD SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_18

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 FINETOOTH SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_19

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 SCALLOPED HAMMERHEAD SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_20

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 SHARPNOSE SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_21

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 WHALE SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_22

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 BULL SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_23

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA OFFICE OF SUSTAINABLE FISHERIES (OSF)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 SPINNER_SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_24

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA OFFICE OF SUSTAINABLE FISHERIES (OFS)

Publication_Date:

2009

Title:

HIGHLY MIGRATORY SPECIES - ESSENTIAL FISH HABITAT
2009 TIGER SHARK

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NMFS

Online_Linkage:

<http://www.nmfs.noaa.gov/sfa/hms/EFH/index.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_25

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PARAUKA, FRANK (USFWS)

Publication_Date:

2011

Title:

SEASONALITY DATA FOR GULF STURGEON

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_26

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

WILCOX, J., FWC (FLORIDA FISH AND WILDLIFE
COMMISSION)

Publication_Date:

2012

Title:

GULF STURGEON CONCENTRATION AREAS IN THE FL
PANHANDLE

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_27

Source_Contribution:

FISH INFORMATION

*Process_Step:**Process_Description:*

Three main sources of data were used to depict fish distribution and seasonality for this data layer: 1) personal interviews with resource experts from the U.S. Fish and Wildlife Service (USFWS), Florida Fish and Wildlife Conservation Commission (FWC), Florida Department of Environmental Protection (DEP), and University of South Florida (USF); 2) digital data sets and survey data provided by: NOAA (Biogeography Program), National Marine Fisheries Service (NMFS), FWC, USFWS, Florida Natural Areas Inventory (FNAI); and 3) published and unpublished reports and maps. 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:

201208

*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:
 1699
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Area point
Point_and_Vector_Object_Count:
 1700
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Complete chain
Point_and_Vector_Object_Count:
 4005
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Link
Point_and_Vector_Object_Count:
 522323
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Node, planar graph
Point_and_Vector_Object_Count:
 3134

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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:*

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 (218), 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:*

2180200002

Range_Domain_Maximum:

2180203924

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:

218000504

Range_Domain_Maximum:

218000730

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:

218000001

Range_Domain_Maximum:

218001335

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 (218), 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:*

2180100002

Range_Domain_Maximum:

2183700142

*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:*

218000001

Range_Domain_Maximum:

218001335

*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 a species at a particular location. No quantitative data were available for fish, so the concentration field may contain descriptive terms such as "COMMON" or "PRESENT" or a range of numeric values (e.g., 2000-3000).

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:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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 = '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; 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

*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: Florida Panhandle: 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: INVERT (Invertebrate Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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, estuarine, and freshwater (limited to threatened/endangered/rare) invertebrate species for the Florida Panhandle. 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 Florida Panhandle. 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 INVERTPT (Invertebrate Points) data layer, part of the larger Florida Panhandle ESI database, for additional invertebrate 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:*

1985

Ending_Date:

2012

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 1985 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhandle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhandle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 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, available hardcopy documents, survey data, maps, and digital data on invertebrate distribution and concentration areas. See also the INVERTPT (Invertebrate Points) data layer, part of the larger Florida Panhandle ESI database, for additional invertebrate information. These data do not necessarily represent all invertebrate occurrences in the Florida Panhandle. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 4, Pink shrimp, *Penaeus duorarum*; 30, Octopus, *Octopus* spp.; 41, Bay scallop, *Argopecten irradians*; 43, Eastern oyster, *Crassostrea virginica*; 44, Horseshoe crab, *Limulus polyphemus*; 49, Blue crab, *Callinectes sapidus*; 50, White shrimp, *Penaeus setiferus*; 51, Brown shrimp, *Penaeus aztecus*; 72, Caribbean spiny lobster, *Panulirus argus*; 82, Atlantic rangia, *Rangia cuneata*; 96, Atlantic ghost crab, *Ocypode quadrata*; 99, Speckled swimming crab, *Arenaeus cribrarius*; 100, Quahog, *Mercenaria* spp.; 119, Bay squid, *Lolliguncula brevis*; 120, Gulf stone crab, *Menippe adina*; 288, Florida stone crab, *Menippe mercenaria*; 289, Daggerblade grass shrimp, *Palaemonetes pugio*; 444, Atlantic sand crab, *Emerita talpoida*; 604, Purple bankclimber, *Elliptoideus sloatianus*; 605, Fat threeridge, *Amblema neislerii*; 606, Gulf moccasinshell, *Medionidus penicillatus*; 607, Oval pigtoe, *Pleurobema pyriforme*; 609, Spotted spiny lobster, *Panulirus guttatus*; 611, Benedict sand crab, *Emerita benedicti*; 612, Round ebonyshell, *Fusconaia rotulata*; 613, Southern sandshell,

Hamiota australis; 614, Southern kidneyshell, Ptychobranthus jonesi; 615, Choctaw bean, Villosa choctawensis; 616, Narrow pigtoe, Fusconaia escambia; 618, Fuzzy pigtoe, Pleurobema strodeanum; 1062, Sand crabs, Emerita 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:

ALEXANDER, S., FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FL DEP)

Publication_Date:

2011

Title:

AQUATIC PRESERVE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

*Citation_Information:**Originator:*

DOC NOAA NOS NCCOS CCMA BIOGEOGRAPHY PROGRAM

Publication_Date:

2000

*Title:*NOAA'S ESTUARINE LIVING MARINE RESOURCES (ELMR)
DATA BASE*Geospatial_Data_Presentation_Form:*

vector digital data

*Publication_Information:**Publication_Place:*

SILVER SPRING, MD

*Publisher:*NOAA'S OCEAN SERVICE, NATIONAL CENTERS FOR
COASTAL OCEAN SCIENCE (NCCOS)*Online_Linkage:*http://www8.nos.noaa.gov/biogeno_public/elmr.aspx*Type_of_Source_Media:*

ONLINE

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

1985

Ending_Date:

2000

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

INVERT INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*ESTUARINE MARINE LIVING RESOURCES (ELMR) DATA VIA
FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)*Publication_Date:*

2011

Title:

PANHANDLE_ELMR_SEASONALITY_TABLE.XLSX

Geospatial_Data_Presentation_Form:

spreadsheet

Other_Citation_Details:

UNPUBLISHED

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 COMMUNICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2011

Title:

HORSESHOE CRAB SPAWNING BEACH SURVEY RESULTS

Geospatial_Data_Presentation_Form:

map

Online_Linkage:

<http://myfwc.com/research/saltwater/crustaceans-marine-arthropods/horseshoe-crabs/survey-response/>

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_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 FISH AND WILDLIFE CONSERVATION COMMISSION
- FISH AND WILDLIFE RESEARCH INSTITUTE (FWC-FWRI)

Publication_Date:

1990

Title:

SPECIES LIFE HISTORIES

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1990

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2006

Title:

OYSTER HABITATS FLORIDA

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:

Range_of_Dates/Times:

Beginning_Date:

1992

Ending_Date:

2007

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

DISTRIBUTION AND ABUNDANCE DATA FOR BAY SCALLOP

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_6

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

MARINE FISHERIES TRIP TICKET AREA CODES GDB

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:

2011

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
Src_7

Source_Contribution:
INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

SEASONALITY DATA FOR FLORIDA PANHANDLE INVERTS

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_8

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HARVEY, A. (BIG LAGOON STATE PARK)

Publication_Date:

2011

Title:

STATE PARK RESOURCES FOR FLORIDA PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_9

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

MATHESON, E. AND R. KNUDSEN, FWC-FWRI (FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION-FISH AND WILDIFE RESEARCH INSTITUTE)

Publication_Date:

2011

Title:

DISTRIBUTION AND SEASONALITY FOR FISH AND INVERTS IN GULF OF MEXICO AND FL PANHANDLE BAYS

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

EXPERT KNOWLEDGE BASED ON NUMEROUS PUBLISHED DOCUMENTS

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_10

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NICHOLAS, M., NATIONAL PARK SERVICE, GULF ISLANDS NATIONAL SEASHORE

Publication_Date:

2011

Title:

GULF ISLANDS NATIONAL SEASHORE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_11

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PEEBLES, E., FWRI (FLORIDA WILDLIFE RESEARCH
INSTITUTE)

Publication_Date:

2012

Title:

FISH AND INVERTS DISTRIBUTION AND SEASONALITY IN
FLORIDA PANHANDLE

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_12

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

REINMAN, JOSEPH (USFWS)

Publication_Date:

2011

Title:

ST. MARKS NATIONAL WILDLIFE REFUGE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FL DEP), FLORIDA MARINE RESEARCH INSTITUTE (FMRI), 100 Eighth Avenue S.E., St. Petersburg, Florida 33701; and Research Planning, Inc., 1121 Park Street, Post Office Box 328, Columbia, South Carolina, 29202

Publication_Date:

199605

Title:

SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: WEST PENINSULAR FLORIDA VOLUME 1: INVERT

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FLORIDA

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL
PROTECTION (FDEP), FLORIDA MARINE RESEARCH
INSTITUTE (FMRI)

Other_Citation_Details:

PREPARED BY: RESEARCH PLANNING, INC, COLUMBIA,
SOUTH CAROLINA FOR THE FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION (FDEP), FLORIDA MARINE
RESEARCH INSTITUTE (FMRI)

Source_Scale_Denominator:

24000

Type_of_Source_Media:

FTP SITE

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1996

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
(FDEP), FLORIDA MARINE RESEARCH INSTITUTE (FMRI), 100
Eighth Avenue S.E., St. Petersburg, Florida 33701; and Research
Planning, Inc., 1121 Park Street, Post Office Box 328, Columbia, South
Carolina, 29202

Publication_Date:

1996

Title:

SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE
TO SPILLED OIL: WEST PENINSULAR FLORIDA VOLUME 1:
INVERT

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ST. PETERSBURG, FLORIDA

Publisher:

FLORIDA DEPARTMENT OF ENVIRONMENTAL
PROTECTION (FDEP), FLORIDA MARINE RESEARCH
INSTITUTE (FMRI)

Other_Citation_Details:

PREPARED BY: RESEARCH PLANNING, INC, COLUMBIA,
SOUTH CAROLINA FOR THE FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION (FDEP), FLORIDA MARINE
RESEARCH INSTITUTE (FMRI)

Source_Scale_Denominator:

24000

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1996

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_15

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2011

Title:

8 MUSSELS POTENTIAL CRITICAL HABITAT

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

ATLANTA, GA

Publisher:

USFWS

Type_of_Source_Media:

disc

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_16

Source_Contribution:

INVERT INFORMATION

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

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2012

Title:

CRITICAL HABITAT FOR 7 MUSSELS, 2007

Geospatial_Data_Presentation_Form:

vector digital data

*Publication_Information:**Publication_Place:*

ATLANTA, GA

Publisher:

USFWS

Type_of_Source_Media:

disc

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

2007

Ending_Date:

2012

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_17

Source_Contribution:

INVERT INFORMATION

*Process_Step:**Process_Description:*

Three main sources of data were used to depict invert distribution and seasonality for this data layer: 1) personal interviews with resource experts from: Big Lagoon State Park, Gulf Islands National Seashore (NPS), the U.S. Fish and Wildlife Service (USFWS), St. Marks National Wildlife Refuge (USFWS), Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute (FWC-FWRI), Florida Department of Environmental Protection (DEP), and University of South Florida (USF); 2) digital data sets and survey data provided by: NOAA, FWC-FWRI, USFWS, Florida Natural Areas Inventory (FNAI); and 3) published and unpublished documents. 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:

201208

*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:

4792

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

4793

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

44665

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

981993

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

43089

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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. 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 (218), 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:

2180700002

Range_Domain_Maximum:

2180707126

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:

218001080

Range_Domain_Maximum:

218001246

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. 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:*

218000001

Range_Domain_Maximum:

218001335

*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 (218), 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:*

2180100002

Range_Domain_Maximum:

2183700142

*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:*

218000001

Range_Domain_Maximum:

218001335

*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 a species at a particular location. No quantitative data were available for invertebrates, so the concentration may contain descriptive terms such as "ABUNDANT" or "PRESENT" were used to describe the relative abundance of particular invertebrate species at specific locations.

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 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:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:*

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:*

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:*

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:*

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:*

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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 BIORRES 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 Florida Panhandle atlas, the number is 218), 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, 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 detail.

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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

*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: Florida Panhandle: INVERTPT (Invertebrate 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: INVERTPT (Invertebrate Points)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 invertebrate species for the Florida Panhandle. Vector points in this data set represent threatened/endangered invertebrate species. 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 the Florida Panhandle. 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 INVERT (Invertebrate Polygons) data layer, part of the larger Florida Panhandle ESI database, for additional invertebrate 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:*

2006

Ending_Date:

2012

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 2006 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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. 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 digital data on threatened/endangered invertebrate species. See also the INVERT (Invertebrate Polygons) data layer, part of the larger Florida Panhandle ESI database, for additional invertebrate information. These data do not necessarily represent all invertebrate points occurrences in Florida Panhandle. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 608, Panama City crayfish, *Procambarus econfinae*.

*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 COMMISSION (FWC) AND UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2012

Title:

PANAMA CITY CRAYFISH SITES 3-29-12

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

DISC

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:

INVERTPT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

PANAMA CITY CRAYFISH BIOLOGICAL REVIEW PANEL:
COOK,D., R.FRAN, P. KELLY, D. LAWRENCE, P. MOLER

Publication_Date:

2006

Title:

BIOLOGICAL STATUS REPORT PANAMA CITY CRAYFISH
(PROCAMBARUS ECOFINAE)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

TALLHASSEE, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Other_Citation_Details:

45 PP.

Online_Linkage:

http://myfwc.com/media/1355347/PCC_BSR.pdf

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_1

Source_Contribution:

INVERTPT INFORMATION

*Process_Step:**Process_Description:*

One main source of data was used to depict invertebrate points distribution and seasonality for this data layer. The U.S. Fish and Wildlife Service (USFWS) and Florida Fish and Wildlife Conservation Commission (FWC) provided a digital vector point dataset with 2012 Panama City crayfish site information. The above digital and/or hardcopy sources were compiled by the project biologist to create the INVERTPT 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 INVERTPT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201208

*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:
 142

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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:*

INVERTPT.PAT

Entity_Type_Definition:

The INVERTPT.PAT table contains attribute information for the vector points in this data set representing threatened/endangered invertebrate species. 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 (218), element number (37), and record number.

Attribute_Definition_Source:

NOAA

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

2183700001

Range_Domain_Maximum:

2183700142

*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:*

218001103

Range_Domain_Maximum:

218001106

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:

218000001

Range_Domain_Maximum:

218001335

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 (218), element number (37), 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:

2180100002

Range_Domain_Maximum:

2183700142

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:*

218000001

Range_Domain_Maximum:

218001335

*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 a species at a particular location. No quantitative data were available for the invertebrates, so the concentration fields may contain a concentration approximation, such as "<10". 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:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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; 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, INVERTPT) 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

Metadata_Reference_Information:

Metadata_Date:

20140609

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: Florida Panhandle: 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: REPTILES (Reptile Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 and select estuarine/freshwater reptiles for the Florida Panhandle. Vector polygons in this data set represent sea turtle and select estuarine/freshwater reptile distribution. 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 Florida Panhandle. 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 REPTPT (Reptile Points) data layer, part of the larger Florida Panhandle ESI database, for additional reptile 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:*

1992

Ending_Date:

2012

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 1992 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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. 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 sea turtle and select estuarine/freshwater reptile distribution. See also the REPTPT (Reptile Points) data layer, part of the larger Florida Panhandle ESI database, for additional reptile information. These data do not necessarily represent all reptile occurrences in Florida Panhandle. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 2, Green sea turtle, *Chelonia mydas*; 3, American alligator, *Alligator mississippiensis*; 4, Kemp's ridley sea turtle, *Lepidochelys kempii*; 5, Leatherback sea turtle, *Dermochelys coriacea*; 6, Loggerhead sea turtle, *Caretta caretta*; 7, Diamondback terrapin, *Malaclemys terrapin*; 9, Hawksbill sea turtle, *Eretmochelys imbricata*; 12, Gulf salt marsh snake, *Nerodia clarkii clarkii*; 21, Gopher tortoise, *Gopherus polyphemus*; 24, Eastern indigo snake, *Drymarchon couperi*; 29, Carolina gopher frog, *Lithobates capito*; 30, Florida pine snake, *Pituophis melanoleucus mugitus*; 180, Alligator snapping turtle, *Macrochelys temminckii*; 200, Pine Barrens treefrog, *Hyla andersonii*; 201, Florida Bog Frog, *Lithobates okaloosae*; 202, Suwannee River cooter, *Pseudemys suwanniensis*; 203, Barbour's map turtle, *Graptemys barbouri*; 204, Common kingsnake, *Lampropeltis getula*.

*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:*

APALACHICOLA RIVERKEEPER

Publication_Date:

2011

*Title:*APALACHICOLA RIVERKEEPER: SAVING AN AMERICAN
TREASURE*Geospatial_Data_Presentation_Form:*

vector digital data

Online_Linkage:<http://www.apalachicolariverkeeper.org/home0.aspx>*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_0

Source_Contribution:

REPTILES INFORMATION

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

2011

Title:

ALLIGATOR FACTS

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

UNPUBLISHED

Online_Linkage:

<http://myfwc.com/wildlifehabitats/managed/alligator/alligator-facts/>

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:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2011

Title:

ALLIGATOR SNAPPING TURTLE BIOLOGICAL STATUS
REVIEW REPORT

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

TALLHASSEE, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Other_Citation_Details:

16 PP.

Online_Linkage:

<http://myfwc.com/media/2273250/Alligator-Snapping-Turtle-BSR.pdf>

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_2

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2011

Title:

PNE BARREN TREEFROG BIOLOGICAL STATUS REVIEW
REPORT

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

TALLHASSEE, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Other_Citation_Details:

14 PP.

Online_Linkage:

<http://myfwc.com/media/2273364/Pine-Barrens-Tree-Frog-BSR.pdf>

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_3

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2011

Title:

SPECIES PROFILES: GOPHER FROG:RANA CAPITO

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

<http://myfwc.com/wildlifehabitats/profiles/reptiles-and-amphibians/amphibians/gopher-frog/>

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_4

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2011

Title:

SPECIES PROFILES: GOPHER TORTOISE: GOPHERUS
POLYPHEMUS

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

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:

2011

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_5

Source_Contribution:
REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2011

Title:

SUWANNEE COOTER BIOLOGICAL STATUS REVIEW REPORT

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Other_Citation_Details:

15 PP.

Online_Linkage:

<http://myfwc.com/media/2273412/Suwannee-Cooter-BSR.pdf>

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_6

Source_Contribution:
REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

ESI_NWFL_IWDISTRIB_REGIONS (ESI NORTHWEST FL
IN-WATER DISTRIBUTION REGIONS SEA TURTLES)

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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_7

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2011

Title:

FWC_SNBS_NWFL_ESI_2011 (FWC SEA TURTLE NESTING
BEACHES NORTHWEST FL ESI 2011)

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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_8

Source_Contribution:
 REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2011

Title:

ELEMENT OCCURRENCE POLYGON DATA LAYER

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA NATURAL AREAS INVENTORY

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_9

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2001

Title:

FIELD GUIDE TO THE RARE ANIMALS OF FLORIDA

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

http://www.fnai.org/FieldGuide/pdf/Ambystoma_cingulatum.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_10

Source_Contribution:
REPTILES INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
GULF ISLANDS NATIONAL SEASHORE, ESCAMBIA COUNTY,
FLORIDA STATE PARKS

Publication_Date:
2012

Title:
GULF ISLANDS NATIONAL SEASHORE/STATE
PARK/ESCAMBIA COUNTY RESOURCES: DISTRIBUTION AND
ABUNDANCE

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_11

Source_Contribution:
REPTILES INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
HARVEY, A. (BIG LAGOON STATE PARK)

Publication_Date:
2011

Title:
STATE PARK RESOURCES FOR FLORIDA PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_12

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HIMES, J., FWC-FWRI

Publication_Date:

2011

Title:

MAPS OF HERP LOCATIONS

Geospatial_Data_Presentation_Form:

HARDCOPY MAP

Other_Citation_Details:

UNPUBLISHED

Source_Scale_Denominator:

150000

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_13

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

HIMES, J., FWC-FWRI

Publication_Date:

2011

Title:

BIRDS, REPTILES, AMPHIBIANS, AND OTHER PANHANDLE
COASTAL 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_14

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

KELLY, P., USFWS

Publication_Date:

2011

Title:

DISTRIBUTION OF SHOREBIRDS AND OTHER SPECIES IN THE
FL PANHANDLE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_15

Source_Contribution:
 REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

MEYLAN, A. AND R. HARDY, FWC-FWRI

Publication_Date:

2011

Title:

SEA TURTLE SEASONALITY FOR NORTHWEST FL

Geospatial_Data_Presentation_Form:

tabular 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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_16

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

MOLER, P.E. (ED.)

Publication_Date:

1992

Title:

RARE AND ENDANGERED BIOTA OF FLORIDA: VOLUME III.
 AMPHIBIANS AND REPTILES

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

GAINESVILLE, FL

Publisher:

UNIVERSITY PRESS OF FLORIDA

Type_of_Source_Media:

PAPER

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1992

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_17

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

O'CONNOR, R.

Publication_Date:

2009

Title:

SEARCHING FOR DIAMONDBACK TERRAPINS IN THE
FLORIDA PANHANDLE

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

<http://www.waltonoutdoors.com/searching-for-diamondback-terrapin-turtles-in-the-florida-panhandle/>

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_18

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

O'CONNOR, R. (ESCAMBIA COUNTY SCHOOL DISTRICT)

Publication_Date:

2009

Title:

ASSESSING THE STATUS OF THE DIAMONDBACK TERRAPIN
IN NWFL AND TERRAPIN MONTHLY OCCUPANCY UPDATE

(2009)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PAPER

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

Src_19

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

REINMAN, JOSEPH (USFWS)

Publication_Date:

2011

Title:

ST. MARKS NATIONAL WILDLIFE REFUGE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_20

Source_Contribution:

REPTILES INFORMATION

Process_Step:

Process_Description:

Two main sources of data were used to depict reptile distribution and seasonality for this data layer: 1) personal interviews with resource experts from: U.S. Fish and

Wildlife Service (USFWS), Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute (FWC-FWRI), Big Lagoon State Park, Gulf Islands National Seashore (NPS), and Escambia County; 2) digital data sets provided by: FWC-FWRI and Florida Natural Areas Inventory (FNAI); and 3) published and unpublished documents. 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:

201208

*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:

1607

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

1608

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

6265

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

574310

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

5786

[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

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*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 sea turtle and select estuarine/freshwater reptile 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 (218), 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:*

2180600002

Range_Domain_Maximum:

2180602718

*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:

218001265

Range_Domain_Maximum:

218001328

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:

218000001

Range_Domain_Maximum:

218001335

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 (218), 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:

2180100002

Range_Domain_Maximum:

2183700142

*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:*

218000001

Range_Domain_Maximum:

218001335

*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 a species at a particular location. No quantitative data were available for reptiles, so the concentration 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 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:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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 BIORRES 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; 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

Metadata_Reference_Information:

Metadata_Date:

20140609

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: Florida Panhandle: REPTPT (Reptile 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: REPTPT (Reptile Points)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 and endangered reptiles/amphibians for the Florida Panhandle. Vector points in this data set represent threatened and endangered reptile/amphibians. 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 the Florida Panhandle. 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 REPTILES (Reptile Polygons) data layer, part of the larger Florida Panhandle ESI database, for additional reptile 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:

2011

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 2001 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:

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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. 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 threatened and endangered reptiles/amphibians. See also the REPTILES (Reptile Polygons) data layer, part of the larger Florida Panhandle ESI database, for additional reptile information. These data do not necessarily represent all reptile points occurrences in Florida Panhandle. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 5, Leatherback sea turtle, *Dermochelys coriacea*; 198, Reticulated flatwoods salamander, *Ambystoma bishopi*; 199, Frosted flatwoods salamander, *Amblystoma cingulatum*.

*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 FISH AND WILDLIFE CONSERVATION COMMISSION
(FWC)

Publication_Date:

2003

Title:

FLATWOODS SALAMANDER RECORDS NEAR PANHANDLE
COAST

Geospatial_Data_Presentation_Form:

tabular digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

THUMB DRIVE

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:

REPTPT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FNAI (FLORIDA NATURAL AREAS INVENTORY)

Publication_Date:

2001

Title:

FIELD GUIDE TO THE RARE ANIMALS OF FLORIDA

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

http://www.fnai.org/FieldGuide/pdf/Ambystoma_cingulatum.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_1

Source_Contribution:

REPTPT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

MEYLAN, A. AND R. HARDY (FWC-FWRI)

Publication_Date:

2011

Title:

SEA TURTLE SEASONALITY FOR NORTHWEST FL

Geospatial_Data_Presentation_Form:

tabular 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:

2011

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

REPTPT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATURESERVE.ORG

Publication_Date:

2011

Title:

NATURE SERVE EXPLORER: RETICULATED FLATWOODS
SALAMANDER

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

UNPUBLISHED

Online_Linkage:

<http://www.natureserve.org/explorer/servlet/NatureServe?searchName=Ambystoma+bishopi>

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_3

Source_Contribution:

REPTPT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NICHOLAS, M., NATIONAL PARK SERVICE, GULF ISLANDS
NATIONAL SEASHORE

Publication_Date:

2011

Title:

GULF ISLANDS NATIONAL SEASHORE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_4

Source_Contribution:

REPTPT INFORMATION

Process_Step:

Process_Description:

One main source of data was used to depict reptile points distribution and seasonality for this data layer. Florida Fish and Wildlife Conservation Commission (FWC) provided a digital point dataset for threatened/endangered amphibians in the Florida Panhandle. The above digital and/or hardcopy sources were compiled by the project biologist to create the REPTPT 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 REPTPT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:

201208

*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:

45

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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:*

REPTPT.PAT

Entity_Type_Definition:

The REPTPT.PAT table contains attribute information for the vector points in this data set representing threatened and endangered reptile/amphibians. 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 (218), element number (36), and record number.

Attribute_Definition_Source:

NOAA

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

2183600001

Range_Domain_Maximum:

2183600045

*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:*

218001284

Range_Domain_Maximum:

218001287

*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. 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:*

218000001

Range_Domain_Maximum:

218001335

*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 (218), element number (36), 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:*

2180100002

Range_Domain_Maximum:

2183700142

*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:*

218000001

Range_Domain_Maximum:

218001335

*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. No concentration data were available for reptiles, 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:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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; 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, REPTPT) 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

*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: Florida Panhandle: 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: M_MAMMAL (Marine Mammal Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 dolphins and manatees in for the Florida Panhandle. Vector polygons in this data set represent dolphins and manatees. 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 Florida Panhandle. 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:**Single_Date/Time:**Calendar_Date:*

2011

Currentness_Reference:

The data were compiled during 2010-2012. The currentness date for the data is 2011 and is documented in the Lineage section.

*Status:**Progress:*

Complete

Maintenance_and_Update_Frequency:

None Scheduled

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

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

*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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 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 expert knowledge and digital data on marine mammal distribution and hot spots, specifically for dolphins and manatees. These data do not necessarily represent all marine mammal occurrences in Florida Panhandle. 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*; 87, Rough-toothed dolphin, *Steno bredanensis*.

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:*

FWC-FWRI; DAUPHIN ISLAND SEA LAB; U.S. GEOLOGICAL
SURVEY

Publication_Date:

2011

Title:

ESI_TMRELABUNDANCE_2011_05_06 (MANATEE
DISTRIBUTION)

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:*

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

M_MAMMAL INFORMATION

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

HARVEY, A. (BIG LAGOON STATE PARK)

Publication_Date:

2011

Title:

STATE PARK RESOURCES FOR FLORIDA PANHANDLE

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:*

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

M_MAMMAL INFORMATION

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

MULLIN, K., NOAA

Publication_Date:

2011

Title:

DISTRIBUTION AND SEASONALITY FOR MARINE MAMMALS

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:*

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

M_MAMMAL INFORMATION

*Process_Step:**Process_Description:*

Two main sources of data were used to depict marine mammal distribution and seasonality for this data layer: 1) personal interviews with resource experts from Big Lagoon State Park and NOAA, and 2) a digital data set (manatees) provided by Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute (FFWCC-FWRI), Dauphin Island Sea Lab, and U.S. Geological Survey (USGS). 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:

201208

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:

2017

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

2018

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

21535

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

493286

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

21243

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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 dolphins and manatees. 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 (218), 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:

2180400002

Range_Domain_Maximum:

2180410641

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:

218001247

Range_Domain_Maximum:

218001264

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:

218000001

Range_Domain_Maximum:

218001335

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 (218), 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:

2180100002

Range_Domain_Maximum:

2183700142

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:*

218000001

Range_Domain_Maximum:

218001335

*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. No quantitative data were available for marine mammals, so the concentration field may contain descriptive terms such as "HIGH" or "LOW" or a concentration approximation such as "<100". 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 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:*

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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; 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

*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: Florida Panhandle: 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: T_MAMMAL (Terrestrial Mammal Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 beach mice, red wolf, and Florida black bear for the Florida Panhandle. Vector polygons in this data set represent rare terrestrial mammal distribution. 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 the Florida Panhandle. 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:*

2006

Ending_Date:

2011

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 2006 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:*

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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. 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, and digital data on rare terrestrial mammal distribution. These data do not necessarily represent all terrestrial mammal occurrences in Florida Panhandle. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 67, Red wolf, *Canis rufus*; 69, Choctawhatchee beach mouse, *Peromyscus polionotus allophrys*; 75, Perdido Key beach mouse, *Peromyscus polionotus trissyllepsis*; 80, St. Andrews beach mouse, *Peromyscus polionotus peninsularis*; 103, Florida black bear, *Ursus americanus floridanus*; 205, Santa Rosa beach mouse, *Peromyscus polionotus leucocephalus*.

*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:

USAF EGLIN AIR FORCE BASE

Publication_Date:

2011

Title:

SANTA ROSA ISLAND BEACH MOUSE

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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_0

Source_Contribution:

T_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date:

2011

Title:

ELEMENT OCCURRENCE POLYGON DATA LAYER

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

TALLAHASSEE, FL

Publisher:

FLORIDA NATURAL AREAS INVENTORY

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_1

Source_Contribution:

T_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

LOGGINS, R.E., J.A. GORE, L.A. SLABY

Publication_Date:

2008

Title:

LONG-TERM MONITORING OF BEACH MOUSE POPULATIONS
IN FLORIDA

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

PANAMA CITY, FL

Publisher:

FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION

Other_Citation_Details:

68 PP.

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2008

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_2

Source_Contribution:

T_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

REINMAN, JOSEPH (USFWS)

Publication_Date:

2011

Title:

ST. MARKS NATIONAL WILDLIFE REFUGE 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:

2011

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

Src_3

Source_Contribution:

T_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2006

Title:

CHBM_FCH (CHOCTAWHATCHEE BEACH MOUSE CRITICAL HABITAT)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

PANAMA CITY, FL

Publisher:

USFWS

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
Src_4

Source_Contribution:
T_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2006

Title:

PKBM_FCH (PERDIDO KEY BEACH MOUSE CRITICAL
HABITAT)

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_5

Source_Contribution:

T_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE (USFWS)

Publication_Date:

2006

Title:

SABM_FCH (ST. ANDREW BEACH MOUSE CRITICAL HABITAT)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

PANAMA CITY, FL

Publisher:

USFWS

Type_of_Source_Media:

CD-ROM

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

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_6

Source_Contribution:

T_MAMMAL INFORMATION

*Process_Step:**Process_Description:*

Two main sources of data were used to depict terrestrial mammal distribution and seasonality for this data layer: 1) personal interviews with resource experts from St. Marks National Wildlife Refuge (USFWS) and 2) digital data provided by U.S. Fish and Wildlife Service (USFWS), Eglin Air Force Base, and Florida Natural Areas Inventory (FNAI). 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:

201208

*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:

249

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

250

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

312

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

39676

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

309

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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:*

T_MAMMAL.PAT

Entity_Type_Definition:

The T_MAMMAL.PAT table contains attribute information for the vector polygons in this data set representing rare 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 (218), 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:*

2180900002

Range_Domain_Maximum:

2180900250

*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:*

218001330

Range_Domain_Maximum:

218001335

*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:*

218000001

Range_Domain_Maximum:

218001335

*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 (218), 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:*

2180100002

Range_Domain_Maximum:

2183700142

*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:*

218000001

Range_Domain_Maximum:

218001335

*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. No concentration data were available for terrestrial mammals, 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 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:*

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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 = '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; 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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

20140609

*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: Florida Panhandle: 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: HABITATS (Habitat Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 rare plants for the Florida Panhandle. Vector polygons in this data set represent rare plant occurrences. 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 the Florida Panhandle. 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:*

2007

Ending_Date:

2011

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 2007 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:*

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 sets on rare plant occurrences. These data do not necessarily represent all habitat occurrences in Florida Panhandle. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 228, Chapman's sedge, *Carex chapmanii*; 241, Bumpy jointtail grass, *Mnesithea tuberculosa*; 242, Pond spice, *Litsea aestivalis*; 246, Southern milkweed, *Asclepias viridula*; 663, Beaked spikerush, *Eleocharis rostellata*; 684, Violet butterwort, *Pinguicula ionantha*; 796, Manyflower grasspink, *Calopogon multiflorus*; 800, Godfrey's goldenaster, *Chrysopsis godfreyi*; 813, Sarvis holly, *Ilex amelanchier*; 815, Panhandle lily, *Lilium iridollae*; 816, Bog spicebush, *Lindera subcoriacea*; 820, Flameflower, *Macranthera flammea*; 830, Largeleaf jointweed, *Polygonella macrophylla*; 832, Florida pondweed, *Potamogeton floridanus*; 836, Mosquito beardsedge, *Rhynchospora crinipes*; 840, Nightflowering wild petunia, *Ruellia noctiflora*; 842, Georgia bully, *Sideroxylon thornei*; 845, Harper's yelloweyed grass, *Xyris scabrifolia*; 848, Crimson pitcherplant, *Sarracenia leucophylla*; 952, Perforate reindeer lichen, *Cladonia perforata*; 953, Pinewoods bluestem, *Andropogon arctatus*; 955, Florida wild indigo, *Baptisia calycosa* var. *villosa*; 956, Apalachicola aster, *Eurybia spinulosa*; 957, Scareweed, *Baptisia simplicifolia*; 958, Fly's nemesis, *Brickellia cordifolia*; 959, Florida calamint, *Clinopodium dentatum*; 960, Florida sandreed, *Calamovilfa curtissii*; 961, Eastern sweetshrub, *Calycanthus floridus*; 962, Baltzell's sedge, *Carex baltzellii*; 963, Cruise's goldenaster, *Chrysopsis gossypina* ssp. *Cruiseana*; 965, Tropical waxweed, *Cuphea aspera*; 966, Threadleaf sundew, *Drosera filiformis*; 967, Spoonleaf

sundew, *Drosera intermedia*; 968, Florida burhead, *Echinodorus floridanus*; 969, Trailing arbutus, *Epigaea repens*; 970, Blackbract pipewort, *Eriocaulon nigrobracteatum*; 971, Telephus spurge, *Euphorbia telephioides*; 972, Wiregrass gentian, *Gentiana pennelliana*; 974, Godfrey's spiderlily, *Hymenocallis godfreyi*; 975, Henry's spiderlily, *Hymenocallis henryae*; 976, Smoothbark St. Johnswort, *Hypericum lissophloeus*; 977, Pennsylvania rush, *Juncus gymnocarpus*; 978, Thicket leaf water-willow, *Justicia crassifolia*; 979, Mountain laurel, *Kalmia latifolia*; 980, Corkwood, *Leitneria floridana*; 981, Kral's yelloweyed grass, *Xyris longisepala*; 982, Petiteplant, *Lepuropetalon spathulatum*; 983, Godfrey's blazing star, *Liatris provincialis*; 984, West's flax, *Linum westii*; 985, Gulf Coast lupine, *Lupinus westianus*; 986, Curtiss' loosestrife, *Lythrum curtissii*; 987, White birds-in-a-nest, *Macbridea alba*; 988, Ashe's magnolia, *Magnolia ashei*; 989, Pyramid magnolia, *Magnolia pyramidata*; 990, Green adder's-mouth orchid, *Malaxis unifolia*; 991, Alabama milkvine, *Matelea alabamensis*; 992, Pinesap, *Monotropa hypopithys*; 993, Florida beargrass, *Nolina atopocarpa*; 994, Giant cowbane, *Oxypolis greenmanii*; 995, Naked-stemmed panicgrass, *Dichanthelium nudicaule*; 996, Carolina grass of Parnassus, *Parnassia caroliniana*; 997, Paper nailwort, *Paronychia chartacea* var. *minima*; 998, Pineland false sunflower, *Phoebanthus tenuifolius*; 1000, Godfrey's false dragonhead, *Physostegia godfreyi*; 1059, Southern butterwort, *Pinguicula primuliflora*; 1060, Zigzag silkgrass, *Pityopsis flexuosa*; 1061, Small green wood orchid, *Platanthera clavellata*; 1062, Arkansas oak, *Quercus arkansana*; 1063, White meadowbeauty, *Rhexia parviflora*; 1064, Panhandle meadowbeauty, *Rhexia salicifolia*; 1065, Orange azalea, *Rhododendron austrinum*; 1066, Sweet pitcherplant, *Sarracenia rubra*; 1067, Bay starvine, *Schisandra glabra*; 1068, Florida skullcap, *Scutellaria floridana*; 1069, Mock pennyroyal, *Stachydeoma graveolens*; 1070, Silky camellia, *Stewartia malacodendron*; 1071, Pineland hoarypea, *Tephrosia mohrii*; 1072, Cooley's meadow-rue, *Thalictrum cooleyi*; 1073, Chapman's crownbeard, *Verbesina chapmanii*; 1074, Quillwort yelloweyed grass, *Xyris isoetifolia*.

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:
ELEMENT OCCURRENCE POLYGON DATA LAYER

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:
TALLAHASSEE, FL

Publisher:
FLORIDA NATURAL AREAS INVENTORY

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:
USAF EGLIN AIR FORCE BASE

Publication_Date:
2007

Title:
EGLIN CLADONIA PERFORATA HAB AREA

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:
NICEVILLE, FL

Publisher:
U.S. AIR FORCE

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2007

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:

Src_1

Source_Contribution:

HABITATS INFORMATION

*Process_Step:**Process_Description:*

The main sources 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), Eglin Air Force Base, and Florida Natural Areas Inventory (FNAI). 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:

201208

*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:

3018

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

3019

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

3707

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

94267

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

2968

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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 rare plant occurrences. 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 (218), 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:

2180300002

Range_Domain_Maximum:

2180303019

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

An identifier that links directly to the BIORRES 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:*

218000731

Range_Domain_Maximum:

218001079

*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:*

218000001

Range_Domain_Maximum:

218001335

*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 (218), 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:*

2180100002

Range_Domain_Maximum:

2183700142

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIORES

Entity_Type_Definition:

The data table BIORRES 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 BIORRES 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:

218000001

Range_Domain_Maximum:

218001335

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. No concentration data were available for habitats, 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:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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; 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

Metadata_Reference_Information:

Metadata_Date:

20140609

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: Florida Panhandle: 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:

201208

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Florida Panhandle: BENTHIC (Benthic Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

Florida Panhandle ESI

Issue_Identification:

Florida Panhandle

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 submerged aquatic vegetation (SAV) and corals for the Florida Panhandle. Vector polygons in the data set represent SAV and coral distribution. 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 Florida Panhandle. 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:*

1987

Ending_Date:

2011

Currentness_Reference:

The data were compiled during 2010-2012. The currentness dates for the data range from 1987 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:*

-87.62500

East_Bounding_Coordinate:

-83.68400

North_Bounding_Coordinate:

30.74700

South_Bounding_Coordinate:

28.27700

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_Keyword:

Submerged aquatic vegetation

Theme_Keyword:

Coral

Theme:

Theme_Keyword_Thesaurus:

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

Place:

Place_Keyword_Thesaurus:

None

Place_Keyword:

Florida Panhandle

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/FloridaPanhdle_2012_datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

*Browse_Graphic:**Browse_Graphic_File_Name:*

http://response.restoration.noaa.gov/sites/default/files/esimaps/gisdata/FloridaPanhdle_2012_datafig2.jpg

Browse_Graphic_File_Description:

Depicts the relationships between spatial data layers and desktop data tables for the Florida Panhandle 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, 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 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PCs with Windows Operating System (2000/XP/2003). 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, invertpt.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, reptpt.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, 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 digital data sets and expert knowledge on submerged aquatic vegetation (SAV) and coral distribution.

*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:

2001

Title:

FIELD GUIDE TO THE RARE PLANTS AND ANIMALS OF
FLORIDA: ONLINE

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

http://fwcg.myfwc.com/docs/purple_bankclimber.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_0

Source_Contribution:

BENTHIC INFORMATION

Process_Step:

Process_Description:

Two main sources of data were used to depict benthic habitat distribution and seasonality for this data layer: 1) digital data provided by Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute (FWC-FWRI) and 2) personal interviews from resource experts from Florida Department of Environmental Protection (DEP).

Process_Date:

201208

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:
 4542
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Area point
Point_and_Vector_Object_Count:
 4543
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Complete chain
Point_and_Vector_Object_Count:
 6624
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Link
Point_and_Vector_Object_Count:
 551521
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Node, planar graph
Point_and_Vector_Object_Count:
 5674

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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:*

BENTHIC.PAT

Entity_Type_Definition:

The BENTHIC.PAT table contains attribute information for the vector polygons in this data set representing submerged aquatic vegetation (SAV) and coral 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 (218), 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:*

2180303021

Range_Domain_Maximum:

2180307562

*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:*

218000797

Range_Domain_Maximum:

218000814

*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:*

218000001

Range_Domain_Maximum:

218001335

*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 (218), 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:*

2180100002

Range_Domain_Maximum:

2183700142

*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:*

218000001

Range_Domain_Maximum:

218001335

*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. No concentration data were available for benthic, 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:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bear

Enumerated_Domain_Value_Definition:

Bear

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

cephalopod

Enumerated_Domain_Value_Definition:

Cephalopod

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:

crayfish

Enumerated_Domain_Value_Definition:

Crayfish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

diadromous

Enumerated_Domain_Value_Definition:

Diadromous fish

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:

fav

Enumerated_Domain_Value_Definition:

Floating aquatic vegetation

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:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

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:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

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:

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:

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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

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 = '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 BIORRES 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 Florida Panhandle atlas, the number is 218), 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:

These data represent a snapshot in time and temporal changes may have occurred. These 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, and/or 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 for distribution options (see Distributor). ESI data are processed into multiple formats. Distribution formats include a Geodatabase (including an ArcMap .mxd file, complete with database links and symbology), ARC export files, and shapefiles. The database files, available in text and INFO(R) formats, are provided in both 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 about both of these database formats.

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Metadata_Reference_Information:

Metadata_Date:

20140609

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

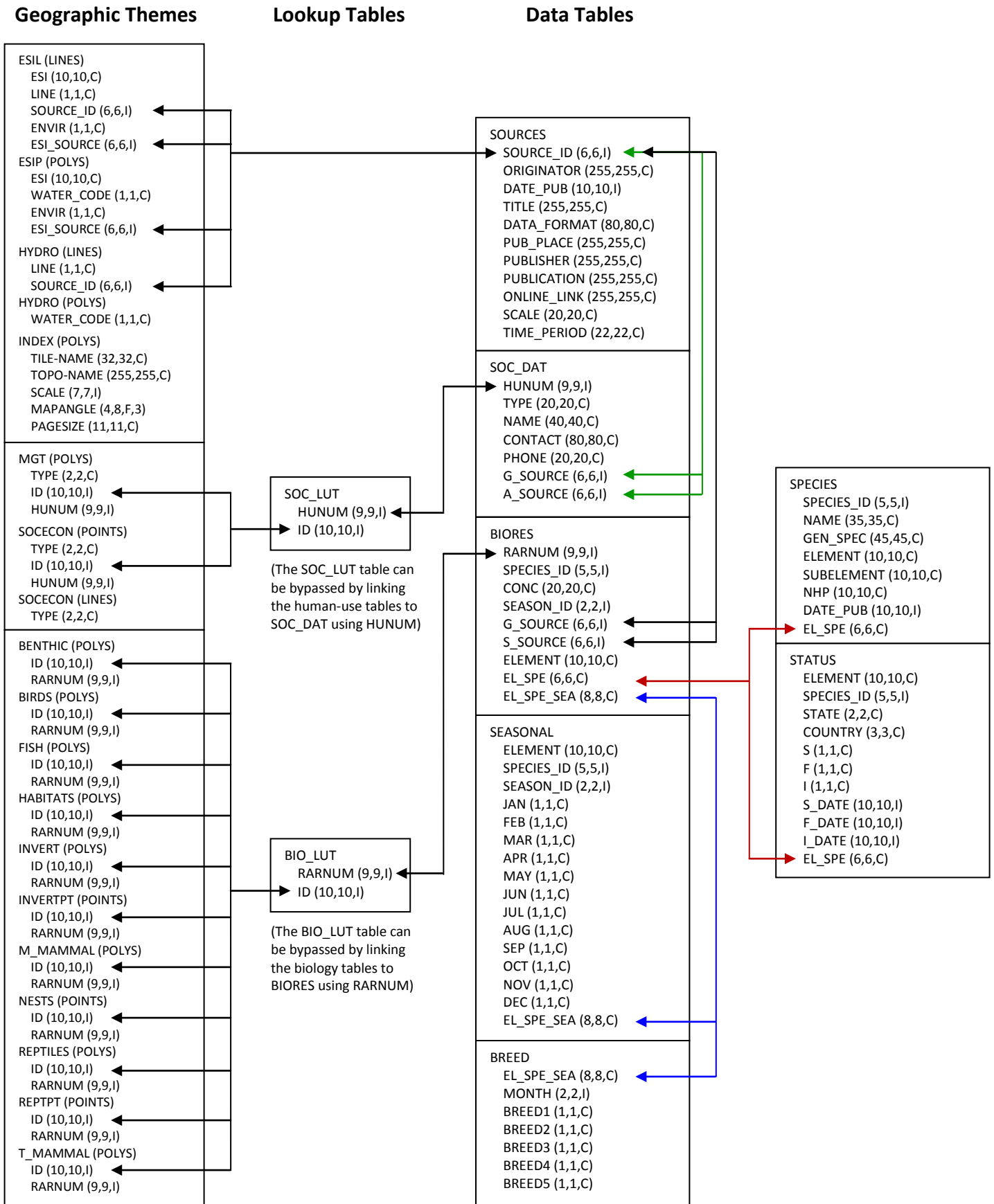
Metadata_Standard_Version:

FGDC-STD-001-1998

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Florida Panhandle ESI – August 2012

Entity Relationship Diagram for the Relational Data Tables



Florida Panhandle ESI – August 2012

Entity Relationship Diagram for the Desktop / Flat File Approach

