East Florida Environmental Sensitivity Index (ESI): AOI (AOI Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:
East Florida Environmental Sensitivity Index (ESI): AOI (AOI Polygons)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

This data set contains vector polygons representing the boundaries of all digital data produced as part of the Environmental Sensitivity Index (ESI) for East Florida. This data set comprises a portion of the ESI data for Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is

often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2017

Currentness_Reference:

The data were compiled during 2017-2020. The currentness date for this data is 2017 and is documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg [KB1]

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent the digital data extent for all data produced as part of the East Florida ESI atlas.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The AOI data set was developed from pre-existing digital data and reflects 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: RESEARCH PLANNING, INC (RPI)
Publication_Date: 2017
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:

Range_of_Dates/Times:

Beginning_Date: 2017

Ending_Date: 2017

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: AOI INFORMATION

Process_Step:
Process_Description:
The AOI was generated for a specified onshore and offshore extent of the ESI study area. The landward extent of the AOI is a 10-statute mile buffer of the East Florida shoreline and seaward extent is to the Exclusive Economic Zone (EEZ) boundary. It is bounded by the Georgia ESI Atlas to the north, South Florida ESI Atlas to the south, and the St. Johns River ESI Atlas to the west.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 1

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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. The entity-relationship diagram describes relationships between attribute tables

in the ESI data structure. This particular geographic data layer (AOI) 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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: AOI

Entity_Type_Definition:
The AOI table contains attribute information for the vector polygons representing the boundaries of the maps and/or 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: 1

Attribute:
Attribute_Label: NAME
Attribute_Definition: USGS Quad name or a descriptive name of region covered.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label: SCALE
Attribute_Definition: The map production scale denominator.
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: UTM_ZONE
Attribute_Definition:
UTM_ZONE contains full projection definition for the appropriate UTM zone.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain: Acceptable values change from atlas to atlas.

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:

Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label: VIEW_PDF
Attribute_Definition: Link to ESI PDFs on the NOAA server.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:

Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998 [KB1]Are we still delivering this?

Generated by mp version 2.9.44 on Wed Apr 08 10:10:05 2020

East Florida Environmental Sensitivity Index (ESI): BENTHIC (Benthic Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:

East Florida Environmental Sensitivity Index (ESI): BENTHIC (Benthic Polygons)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

This data set contains sensitive biological resource data for seagrass, coral reef, hard-bottom communities, and deep-sea coral for East Florida. Vector polygons in this data set represent seagrass, coral, and hard-bottom community 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. 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. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2000

Ending_Date: 2020

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2000 to 2020 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Benthic

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of digital survey and model data and expert knowledge on seagrass, coral, and hard-bottom community distribution. These data do not necessarily represent all benthic occurrences in East Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 14, Lobed star coral, Orbicella annularis; 15, Mountainous star coral, Orbicella faveolata; 16, Boulder star coral, Orbicella franksi; 17, Coral and rock, n/a; 18, Acropora spp., Acropora spp.; 85, Seagrass, n/a; 253, Hardbottom reef, n/a; 1034, Coral patch reef, n/a; 1078, Aggregate reef, n/a; 1174, Johnson's seagrass, Halophila johnsonii; 1183, Deep sea coral, 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: ADAM BRAME, NOAA NATIONAL MARINE FISHERIES SERVICE
Publication_Date: 2019
Title: JOHNSON'S SEAGRASS DISTRIBUTION
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: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2009
Title: ACROPORA PRIORITY SITES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Online_Linkage: https://geodata.myfwc.com/datasets/acropora-priority-sites

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND WILDLIFE RESEARCH INSTITUTE

Publication_Date: 2016
Title: SEAGRASS HABITAT IN FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:

Beginning_Date: 2007
Ending_Date: 2015

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

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

Publication_Date: 2015
Title: UNIFIED FLORIDA CORAL REEF TRACT MAP V2.0
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA NATURAL AREAS INVENTORY (FNAI)
Publication_Date: 2019
Title: FNAI ELEMENT OCCURRENCE POLYGON DATA LAYER
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: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
JENNIFER STEIN, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2018
Title: FLORIDA REEF RESILIENCE PROGRAM DISTURBANCE RESPONSE MONITORING
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: 2005
Ending_Date: 2018

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: JERRY L. METZ, LOXAHATCHEE RIVER DISTRICT
Publication_Date: 2019
Title:
LANDSCAPE-SCALE STATUS OF SEAGRASSES IN THE LOXAHATCHEE RIVER ESTUARY: 2007 AND 2010 TO 2018 COMPARISONS

Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage:
https://loxahatcheeriver.org/wp-content/uploads/2019/08/2018LandscapeScaleSeagrassReportFinal.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
KINLAN, B.P., M. POTI, T. HOURIGAN, D. DORFMAN, C. CALDOW - NOAA

Publication_Date: 2013
Title:
DIGITAL DATA: PREDICTIVE MODELS OF DEEP-SEA CORAL HABITAT SUITABILITY IN THE U.S. SOUTHEAST REGION

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2013

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE

Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: NOAA
Publication_Date: 2019
Title: DEEP SEA CORAL DATABASE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Online_Linkage: https://deepseacoraldata.noaa.gov/

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: NOAA FISHERIES
Publication_Date: 2020
Title: STAGHORN CORAL SPECIES OVERVIEW
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://www.fisheries.noaa.gov/species/staghorn-coral

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: NOAA NATIONAL MARINE FISHERIES SERVICE
Publication_Date: 2000
Title: CRITICAL HABITAT FOR JOHNSON'S SEAGRASS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: Federal Register Vol. 65, No. 66
Publisher: NOAA NATIONAL MARINE FISHERIES SERVICE

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2000

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD)
Publication_Date: 2017
Title:
THE INDIAN RIVER LAGOON SEAGRASS MAPPING PROJECT - 2009, 2011, 2013, 2015, 2017

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: PALATKA, FLORIDA
Publisher: SJRWMD

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2009
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BENTHIC INFORMATION

Process_Step:
Process_Description:
Two main sources of data were used to depict benthic habitats distribution and seasonality for this data layer: 1) digital survey and model data from NOAA, Florida Fish and Wildlife Conservation Commission (FWC), St. Johns River Water Management District, and Loxahatchee River District, and 2) personal interviews with resource experts. Deep sea coral habitat – Predictive models showing habitat suitability for 18 species of deep-sea corals were provided by the NOAA National Centers for Environmental Information. All species were combined and mapped as ‘deep sea coral’ in the ESI atlas. Areas that had a ‘high’ or ‘very high’ likelihood of containing deepwater corals are combined into the ESI concentration ‘highly likely’. Areas that are categorized as having ‘medium-low’ to ‘medium’ likelihood are combined into the ESI concentration ‘potential’. The species aggregated as ‘deep sea corals’ include Lophelia pertusa, Madrepora spp., Madracis spp., Callogorgia spp., Bebryce spp., Hypnogorgia spp., the families Ellisellidae, Gorgoniidae, Paramuriceidae, Plexauridae, the orders Alcyonacea, Scleractinia (except Oculina spp.), and Antipatharia. Additionally, coral points from the NOAA Deep Sea Coral Database were mapped as 500 m buffered polygons. Only coral points from the same taxa as those from the predictive model were included in the atlas, and points that had accuracies greater than 1000 m or had survey dates older than 50 years were excluded. Nearshore coral habitat – Nearshore coral habitat was provided by FWC as part of their Unified Reef Map v2.0. All classes in the Unified Reef Map that corresponded to some kind of coral or hardbottom habitat were included. In an effort to simplify the classifications, some of the Unified Reef Map classes were aggregated into single ESI classifications. These groupings are listed as follows, with ESI classification listed first, followed by each ESI classification's Unified Reef Map classes: coral patch reef: individual or aggregated patch reef; aggregate reef: aggregate reef, spur and groove; hardbottom reef: ridge, colonized pavement; scattered coral and rock: scattered coral/rock. Acropora and Orbicella corals – Corals that are listed with state or federal protection statuses were mapped in the ESI. These include boulder star coral (Orbicella franksi, FT, ST), mountainous star coral (Orbicella faveolata, FT, ST), lobed star coral (Orbicella annularis, FT, ST), elkhorn coral (Acropora palmata, FT, ST), and staghorn coral

(Acropora cervicornis, FT, ST). The three Orbicella species were mapped as 50 m buffers around survey points using data provided by FWC as part of their Florida Reef Resilience Program's Disturbance Response Monitoring (2005-2018). Acropora palmata and A. cervicornis were mapped as Acropora spp. in the ESI using data from FWC's Acropora Priority Sites dataset. Seagrass – Seagrasses are a vitally important habitat within the estuaries and bays of Florida, forming the basis of a rich, diverse, and incredibly productive ecosystem. There are three species of seagrass that are most abundant within the purview of the East Florida ESI: Shoal grass (Halodule wrightii), turtle grass (Thalassia testudinum), and manatee grass (Syringodium filiforme). Additionally, three other species are found sparsely, and primarily in the Indian River Lagoon: star grass (Halophila engelmannii), paddle grass (Halophila decipiens), and Johnson's seagrass (Halophila johnsonii). The most significant seagrass beds are found in the Indian River Lagoon, which suffered significant die-offs in 2011 due to deadly algal blooms but have seen recovery in recent years. In order to capture the potential recovery of these important habitats, a compilation of five years of mapping data (2009, 2011, 2013, 2015, and 2017) was used, with concentrations of 'continuous' and 'patchy' indicating areas with greater than 50% coverage of seagrass and areas with less than 50% coverage, respectively. South of Indian River Lagoon, seagrass was mapped from a compilation dataset provided by FWC, in which mapped seagrass reflects data from the most recent survey for any given area, spanning surveys dates from 2007 to 2015. Johnson's seagrass – Johnson's seagrass (FT, ST) was mapped from three data sources: the NOAA designated critical habitat, expert knowledge of seagrass range, and survey maps produced by the Loxahatchee River District. Note that surveys for Johnson's seagrass are not comprehensive and that any seagrass beds south of the mouth of Turkey Creek in Palm Bay in the Indian River Lagoon have the potential to contain Johnson's seagrass.

The above digital and/or hardcopy sources were compiled by the project biologist to create the BENTHIC 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the BENTHIC data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 21

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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 RARNUM. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. BIORES and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: BENTHIC

Entity_Type_Definition:
The BENTHIC table contains attribute information for the vector polygons in this data set representing seagrass, coral, and hard-bottom community distribution. 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: RARNUM
Attribute_Definition: An identifier that links directly to the BIORES 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: 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 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 vector objects in the biological data layers.

Attribute_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 1

Range_Domain_Maximum: N

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 value of a habitat at a particular location. Deep sea coral habitat - Areas that had a ‘high’ or ‘very high’ likelihood of containing deepwater corals are combined into the ESI concentration ‘highly likely’. Areas that are categorized as having ‘medium-low’ to ‘medium’ likelihood are combined into the ESI concentration ‘potential’. Seagrass - The most significant seagrass beds are found in the Indian River Lagoon, which suffered significant die-offs in 2011 due to deadly algal blooms, but have seen recovery in recent years. In order to capture the potential recovery of these important habitats, a compilation of five years of mapping data (2009, 2011, 2013, 2015, and 2017) was used, with concentrations of ‘continuous’ and ‘patchy’ indicating areas with greater than 50% coverage of seagrass and areas with less than 50% coverage, respectively. Johnson's seagrass - CONC is "present" where Johnson's seagrass is present based on the data sources, and "potential" for any seagrass beds south of the mouth of Turkey Creek in Palm Bay in the Indian River Lagoon. No concentration information was available for other benthic resources mapped, so the CONC field was left blank.

Attribute_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label: MAPPING_QUALIFIER
Attribute_Definition: An indication of why this feature was mapped in the ESI.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CALVING
Enumerated_Domain_Value_Definition: Calving
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: COLONY
Enumerated_Domain_Value_Definition: Colony
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CONCENTRATION AREA
Enumerated_Domain_Value_Definition: Concentration Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: DENNING
Enumerated_Domain_Value_Definition: Denning
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: GENERAL DISTRIBUTION
Enumerated_Domain_Value_Definition: General Distribution
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HARVEST AREA
Enumerated_Domain_Value_Definition: Harvest Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAUL OUT
Enumerated_Domain_Value_Definition: Haul Out
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAZARD
Enumerated_Domain_Value_Definition: Hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HIGH ECOLOGICAL VALUE
Enumerated_Domain_Value_Definition: High Ecological Value
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value: MIGRATION
Enumerated_Domain_Value_Definition: Migration
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NESTING
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NURSERY AREA
Enumerated_Domain_Value_Definition: Nursery Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: PUPPING
Enumerated_Domain_Value_Definition: Pupping
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RAFTING
Enumerated_Domain_Value_Definition: Rafting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ROOSTING
Enumerated_Domain_Value_Definition: Roosting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPAWNING AREA
Enumerated_Domain_Value_Definition: Spawning Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: THERMAL REFUGE
Enumerated_Domain_Value_Definition: Thermal Refuge
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VULNERABLE OCCURRENCE
Enumerated_Domain_Value_Definition: Vulnerable Occurrence
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WINTERING
Enumerated_Domain_Value_Definition: Wintering
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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: BENTHIC

Enumerated_Domain_Value_Definition: Benthic

Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: Insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alcid
Enumerated_Domain_Value_Definition: Alcid
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: algae
Enumerated_Domain_Value_Definition: Algae
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alligator

Enumerated_Domain_Value_Definition: Alligator
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: amphibian
Enumerated_Domain_Value_Definition: Amphibian
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: anadromous
Enumerated_Domain_Value_Definition: Anadromous fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: barnacle
Enumerated_Domain_Value_Definition: Barnacle
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: bat
Enumerated_Domain_Value_Definition: Bat
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: bird
Enumerated_Domain_Value_Definition: Bird
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: chordate
Enumerated_Domain_Value_Definition: Chordate
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: echinoderm
Enumerated_Domain_Value_Definition: Echinoderm
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: feline
Enumerated_Domain_Value_Definition: Feline
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: frog
Enumerated_Domain_Value_Definition: Frog
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gastropod
Enumerated_Domain_Value_Definition: Gastropod
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gull_tern
Enumerated_Domain_Value_Definition: Gull or tern
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: hardbottom
Enumerated_Domain_Value_Definition: Hardbottom
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: invert
Enumerated_Domain_Value_Definition: Invertebrate
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: kelp
Enumerated_Domain_Value_Definition: Kelp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: landfowl
Enumerated_Domain_Value_Definition: Landfowl
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lizard
Enumerated_Domain_Value_Definition: Lizard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lobster
Enumerated_Domain_Value_Definition: Lobster
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_benthic
Enumerated_Domain_Value_Definition: Marine benthic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_pelagic
Enumerated_Domain_Value_Definition: Marine pelagic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_resident
Enumerated_Domain_Value_Definition: Marine resident 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: pinniped
Enumerated_Domain_Value_Definition: Pinniped
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: polar bear
Enumerated_Domain_Value_Definition: Plant
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: raptor
Enumerated_Domain_Value_Definition: Raptor
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reef
Enumerated_Domain_Value_Definition: Reef
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reptile
Enumerated_Domain_Value_Definition: Reptile
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: sea_otter
Enumerated_Domain_Value_Definition: Sea otter
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: shellfish
Enumerated_Domain_Value_Definition: Shellfish
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: softbottom
Enumerated_Domain_Value_Definition: Snake
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

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

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: wetland

Enumerated_Domain_Value_Definition: Wetland
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: whale
Enumerated_Domain_Value_Definition: Whale
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: worm
Enumerated_Domain_Value_Definition: Worm
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: GRANK
Attribute_Definition: Global Rank of the species as defined by NatureServe
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NatureServe Global Conservation Status Ranks
Codeset_Source: NatureServe

Attribute:
Attribute_Label: GRANKDATE
Attribute_Definition: Date the GRANK was assessed
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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: MON

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 "HERP" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for BENTHIC, 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 "HERP" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for BENTHIC, 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 "HERP" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for BENTHIC, 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 "HERP" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BENTHIC, 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 "HERP" then BREED5 = adults. This attribute is not used for BENTHIC, 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: BENTHIC

Enumerated_Domain_Value_Definition: Benthic

Enumerated_Domain_Value_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: HERP

Enumerated_Domain_Value_Definition: Reptiles and Amphibians

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: 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: 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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X

Enumerated_Domain_Value_Definition: Experimental essential population
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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: 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
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City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

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Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

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Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
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Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

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Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

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East Florida Environmental Sensitivity Index (ESI): BIRDS (Bird Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:

East Florida Environmental Sensitivity Index (ESI): BIRDS (Bird Polygons)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

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 East Florida. Vector polygons in this data set represent bird nesting, migratory staging, and wintering sites 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 Florida. ESI data characterize the marine and coastal

environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the BIRDSPT data layer, part of the larger East Florida ESI database, for additional bird information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:
The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2003
Ending_Date: 2020

Currentness_Reference:
The data were compiled during 2017-2020. The currentness dates for this data range from 2003 to 2020 and are documented in the Lineage section.

Status:
Progress: Complete
Maintenance_and_Update_Frequency:
A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:
Theme:
Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Bird

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and

federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, maps, and digital data on bird nesting, migratory staging, and wintering sites and other spatial/temporal concentration areas. See also the BIRDSPT data layer, part of the larger East Florida ESI database, for additional bird information. These data do not necessarily represent all bird occurrences in East Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 3, Red-throated loon, Gavia stellata; 8, Double-crested cormorant, Phalacrocorax auritus; 16, Mallard, Anas platyrhynchos; 17, Northern pintail, Anas acuta; 18, Green-winged teal, Anas crecca; 20, Northern shoveler, Anas clypeata; 21, Canvasback, Aythya valisineria; 22, Greater scaup, Aythya marila; 23, Lesser scaup, Aythya affinis; 26, Bufflehead, Bucephala albeola; 33, Red-breasted merganser, Mergus serrator; 34, American coot, Fulica americana; 35, Parasitic jaeger, Stercorarius parasiticus; 38, Herring gull, Larus argentatus; 45, Common tern, Sterna hirundo; 53, Red-necked phalarope, Phalaropus lobatus; 55, Whimbrel, Numenius phaeopus; 56, Spotted sandpiper, Actitis macularia; 58, Greater yellowlegs, Tringa melanoleuca; 59, Lesser yellowlegs, Tringa flavipes; 61, Pectoral sandpiper, Calidris melanotos; 62, Least sandpiper, Calidris minutilla; 63, Dunlin, Calidris alpina; 64, Short-billed dowitcher, Limnodromus griseus; 65, Long-billed dowitcher, Limnodromus scolopaceus; 66, Western sandpiper, Calidris mauri; 67, Sanderling, Calidris alba; 69, Semipalmated plover, Charadrius semipalmatus; 70, Killdeer, Charadrius vociferus; 71, Black-bellied plover, Pluvialis squatarola; 73, Ruddy turnstone, Arenaria interpres; 76, Bald eagle, Haliaeetus

leucocephalus; 86, Least tern, Sternula antillarum; 94, Tricolored heron, Egretta tricolor; 98, Laughing gull, Leucophaeus atricilla; 116, Roseate spoonbill, Platalea ajaja; 118, Brown pelican, Pelecanus occidentalis; 121, Anhinga, Anhinga anhinga; 124, Redhead, Aythya americana; 125, Clapper rail, Rallus longirostris; 126, Brown noddy, Anous stolidus; 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; 141, American avocet, Recurvirostra americana; 142, Black-necked stilt, Himantopus mexicanus; 148, Ruddy duck, Oxyura jamaicensis; 150, Black rail, Laterallus jamaicensis; 152, American oystercatcher, Haematopus palliatus; 153, Piping plover, Charadrius melodus; 154, Wilson's plover, Charadrius wilsonia; 155, Willet, Tringa semipalmata; 156, Semipalmated sandpiper, Calidris pusilla; 160, Red phalarope, Phalaropus fulicarius; 162, Gadwall, Anas strepera; 164, American golden-plover, Pluvialis dominica; 167, Northern gannet, Morus bassanus; 169, American wigeon, Anas americana; 172, Sandhill crane, Grus canadensis; 173, American white pelican, Pelecanus erythrorhynchos; 178, Least bittern, Ixobrychus exilis; 180, Ring-necked duck, Aythya collaris; 184, King rail, Rallus elegans; 190, Blue-winged teal, Anas discors; 191, Wood duck, Aix sponsa; 193, Black tern, Chlidonias niger; 197, Black scoter, Melanitta americana; 198, Hooded merganser, Lophodytes cucullatus; 199, Pomarine jaeger, Stercorarius pomarinus; 210, Marbled godwit, Limosa fedoa; 211, Mottled duck, Anas fulvigula; 213, Stilt sandpiper, Calidris himantopus; 214, Solitary sandpiper, Tringa solitaria; 225, Marsh wren, Cistothorus palustris; 234, Purple sandpiper, Calidris maritima; 238, White-rumped sandpiper, Calidris fuscicollis; 252, White-tailed tropicbird, Phaethon lepturus; 266, Black-bellied whistling-duck, Dendrocygna autumnalis; 277, Seaside sparrow, Ammodramus maritimus; 278, Saltmarsh sparrow, Ammodramus caudacutus; 283, Bridled tern, Onychoprion anaethetus; 287, Audubon's shearwater, Puffinus lherminieri; 295, Florida scrub-jay, Aphelocoma coerulescens; 296, Florida snail kite, Rostrhamus sociabilis plumbeus; 299, Scaup, Aythya spp.; 300, Goldeneye, Bucephala spp.; 309, Florida sandhill crane, Antigone canadensis pratensis; 381, Crested caracara, Caracara cheriway; 406, Cinnamon teal, Anas cyanoptera; 445, Wilson's storm-petrel, Oceanites oceanicus; 459, Florida burrowing owl, Athene cunicularia floridana; 461, Southeastern American kestrel, Falco sparverius paulus; 529, Cory's shearwater, Calonectris diomedea; 603, Black-capped petrel, Pterodroma hasitata; 734, Nelson's sparrow, Ammodramus nelsoni; 849, Wilson's snipe, Gallinago delicata; 865, Great shearwater, Puffinus gravis; 906, Common gallinule, Gallinula galeata; 952, Red knot, Calidris canutus rufa; 1001, Gulls, n/a; 1003, Waterfowl, n/a; 1008, Terns, n/a; 1035, Pelicans, Pelecanus 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:

ADRIENNE DOYLE, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2018

Title: WADING BIRD COLONY 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: 2016
Ending_Date: 2018

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
AMY SCHWARZER - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2020
Title: FLORIDA BIRDS
Geospatial_Data_Presentation_Form: EXPERT KNOWLEDGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
AMY SCHWARZER - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2020
Title: WINTERING SPARROWS
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: 2020

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

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

Publication_Date: 2019
Title: FWC SALT MARSH BIRD SURVEYS
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: 2010
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: CHRISTINE EASTWICK
Publication_Date: 2020
Title: BIOLOGICAL RESOURCES OF HOBE SOUND NATIONAL WILDLIFE REFUGE
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: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: DAVID S. MAEHR AND HERBERT W. KALE II
Publication_Date: 2005
Title: FLORIDA'S BIRDS: A FIELD GUIDE AND REFERENCE, SECOND EDITION
Geospatial_Data_Presentation_Form: HARDCOPY TEXT
Publication_Information:
Publication_Place: SARASOTA, FL
Publisher: PINEAPPLE PRESS, INC.

Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:

Calendar_Date: 2005

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: EBIRD
Publication_Date: 2020
Title:
EBIRD: AN ONLINE DATABASE OF BIRD DISTRIBUTION AND ABUNDANCE [WEB APPLICATION]

Geospatial_Data_Presentation_Form: ATLAS
Publication_Information:
Publication_Place: ITHACA, NEW YORK
Publisher: EBIRD, CORNELL LAB OF ORNITHOLOGY

Online_Linkage: http://www.ebird.org

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
Publication_Date: 2019
Title: FLORIDA SHOREBIRD DATABASE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: NESTING AND ROVING CHICKS DATABASE
Online_Linkage: https://public.myfwc.com/crossdoi/shorebirds/index.aspx

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - AMY SCHWARZER

Publication_Date: 2020
Title: MARSH WREN AND SEASIDE SPARROW HEAT MAPS
Geospatial_Data_Presentation_Form: HARDCOPY MAP
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA NATURAL AREAS INVENTORY (FNAI)
Publication_Date: 2019
Title: FNAI ELEMENT OCCURRENCE POLYGON DATA LAYER
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: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: KRISTEN KNEIFL, CANAVERAL NATIONAL SEASHORE
Publication_Date: 2020
Title: BIOLOGICAL RESOURCES OF CANAVERAL NATIONAL SEASHORE
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: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: MICHEL, J. (EDITOR)

Publication_Date: 2013
Title:
SOUTH ATLANTIC INFORMATION RESOURCES: DATA SEARCH AND LITERATURE SYNTHESIS

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: NEW ORLEANS, LA
Publisher:
U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF OCEAN ENERGY MANAGEMENT, GULF OF MEXICO OCS REGION

Other_Citation_Details: OCS STUDY BOEM 2013-01157

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2013

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: O'CONNELL, A. F., B. GARDNER, A. T. GILBERT, AND K. LAURENT
Publication_Date: 2009
Title:
COMPENDIUM OF AVIAN OCCURRENCE INFORMATION FOR THE CONTINENTAL SHELF WATERS ALONG THE ATLANTIC COAST OF THE UNITED STATES, FINAL REPORT (DATABASE SECTION - SEABIRDS)

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: BELTSVILLE, MD
Publisher:
USGS PATUXENT WILDLIFE RESEARCH CENTER, U.S. DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, AND BUREAU OF OCEAN ENERGY MANAGEMENT

Other_Citation_Details: OCS STUDY BOEM 2012-076

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: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:

RON BIELEFELD - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2003
Title: FLORIDA MIDWINTER WATERFOWL INVENTORY
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: 1999
Ending_Date: 2003

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: U.S. GEOLOGICAL SURVEY
Publication_Date: 2016
Title: INTERNATIONAL PIPING PLOVER WINTER CENSUS (2011 AND 2016)
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2011
Ending_Date: 2016

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: WALLACE, R. R. AND R. WIGH
Publication_Date: 2007
Title: PELAGIC BIRDS OF THE SOUTHERN SOUTH ATLANTIC BIGHT
Geospatial_Data_Presentation_Form: DOCUMENT
Other_Citation_Details: NORTH AMERICAN BIRDS 61: 198-207
Online_Linkage:
https://sora.unm.edu/sites/default/files/journals/nab/v061n02/p00198-p00207.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2007

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
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 National Park Service (NPS), National Aeronautics and Space Administration (NASA), Florida Fish and Wildlife Conservation Commission (FWC), U.S. Fish and Wildlife Service (USFWS), and Florida Department of Environmental Protection (DEP); 2) numerous digital data sets and maps; and 3) numerous published and unpublished reports. Shorebirds – Piping plover (FT, ST) and Wilson's plover wintering distributions were mapped based on USGS Piping Plover Winter Census data for 2011 and 2016. A 50 m onshore/offshore buffer was used to map these species along coastal areas. Species counts are listed as the maximum number that was observed across the two survey years (2011 and 2016). Data from 2016 was shared before being fully QA/QC'ed and should be considered preliminary. Shorebirds were also mapped using data from the nesting and roving chick datasets from the Florida Shorebird Database. Additional shorebird information, particularly for wintering shorebirds, was acquired from eBird. Diving birds, gulls and terns – Survey data on locations of diving birds, gulls, and terns were provided by various agencies via shapefiles, spreadsheets, primary literature, and expert local knowledge, and was supplemented with information from eBird. In general, data from the various data sources were compiled and either mapped to habitat, park or refuge, or specific locations, per expert recommendations.

Waterfowl – Waterfowl data for East Florida were mapped from FWC 1999-2003 mid-winter waterfowl surveys, the most recent comprehensive surveys that have been conducted in the state. For reporting species and concentrations, counts were binned into 1s, 10s, 100s, 1,000s, or 10,000s. Species were assigned to wetland and water areas within the scope of the survey route descriptions. Numbers from wintering surveys are likely underestimates, since surveys do not necessarily occur during each species' months of peak abundance. FWC waterfowl data was supplemented with data from eBird, particularly in areas that contained eBird bird hotspots. Atlantic Ocean seabirds – Species lists and seasonalities of nearshore and offshore seabirds in the Atlantic Ocean were compiled from studies and reports from the USGS, the Bureau of Ocean Energy Management, and primary literature. Raptors – Osprey are ubiquitous throughout the area; therefore, they were mapped only where specific expert knowledge or survey data were available, although they can occur in appropriate habitats (coastal wetlands) throughout the study area. Crested caracara (FT, ST), Florida burrowing owl (ST), Everglade snail kite (FE, SE), and southeastern American kestrel (ST) were mapped from FNAI element occurrence data. Secretive marsh birds – Distributions of black rail, clapper rail, king rail, and least bittern, marsh wren, and seaside sparrow were provided by FWC as a compilation of three separate FWC surveys: a saltmarsh songbird survey in 2014-2015, a black rail survey in 2016-2017, and a marsh bird survey from 2010-2011. All surveys were conducted during breeding months, except for marsh wren which were documented as wintering. Species locations were assigned by buffering survey points and restricting the resulting polygons to ESI wetland areas. Concentration areas for marsh wren, Nelson's sparrow, saltmarsh sparrow, and seaside sparrow were provided by FWC, and they were mapped as polygons. Rare birds – Florida scrub-jay (FT, ST) was mapped to the boundaries of Canaveral National Seashore and Hobe Sound NWR, based on expert knowledge. Additional Florida scrub-jay occurrences were mapped as polygons from the FNAI Element Occurrence dataset.

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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. 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: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 207

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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 RARNUM. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. BIORES and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: BIRDS

Entity_Type_Definition:
The BIRDS table contains attribute information for the vector polygons in this data set representing bird nesting, migratory staging, and wintering sites and other spatial/temporal 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: RARNUM
Attribute_Definition: An identifier that links directly to the BIORES 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: 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 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 vector objects in the biological data layers.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

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 of individuals (XX BIRDS). In cases where no quantitative count data was available, the field may either be blank or contain descriptive terms such as "HIGH" or "COMMON". 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: MAPPING_QUALIFIER
Attribute_Definition: An indication of why this feature was mapped in the ESI.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CALVING
Enumerated_Domain_Value_Definition: Calving
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: COLONY
Enumerated_Domain_Value_Definition: Colony
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CONCENTRATION AREA
Enumerated_Domain_Value_Definition: Concentration Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: DENNING
Enumerated_Domain_Value_Definition: Denning
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: GENERAL DISTRIBUTION
Enumerated_Domain_Value_Definition: General Distribution
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HARVEST AREA
Enumerated_Domain_Value_Definition: Harvest Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value: HAUL OUT
Enumerated_Domain_Value_Definition: Haul Out
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAZARD
Enumerated_Domain_Value_Definition: Hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HIGH ECOLOGICAL VALUE
Enumerated_Domain_Value_Definition: High Ecological Value
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MIGRATION
Enumerated_Domain_Value_Definition: Migration
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NESTING
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NURSERY AREA
Enumerated_Domain_Value_Definition: Nursery Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: PUPPING
Enumerated_Domain_Value_Definition: Pupping
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RAFTING
Enumerated_Domain_Value_Definition: Rafting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ROOSTING
Enumerated_Domain_Value_Definition: Roosting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPAWNING AREA
Enumerated_Domain_Value_Definition: Spawning Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: THERMAL REFUGE
Enumerated_Domain_Value_Definition: Thermal Refuge
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VULNERABLE OCCURRENCE
Enumerated_Domain_Value_Definition: Vulnerable Occurrence
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WINTERING
Enumerated_Domain_Value_Definition: Wintering
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: Insect

Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alcid
Enumerated_Domain_Value_Definition: Alcid
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: algae
Enumerated_Domain_Value_Definition: Algae
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alligator
Enumerated_Domain_Value_Definition: Alligator
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: amphibian
Enumerated_Domain_Value_Definition: Amphibian
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: anadromous
Enumerated_Domain_Value_Definition: Anadromous fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: barnacle
Enumerated_Domain_Value_Definition: Barnacle
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: bat
Enumerated_Domain_Value_Definition: Bat
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: bird
Enumerated_Domain_Value_Definition: Bird
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: chordate
Enumerated_Domain_Value_Definition: Chordate
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: echinoderm
Enumerated_Domain_Value_Definition: Echinoderm
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: feline
Enumerated_Domain_Value_Definition: Feline
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: frog
Enumerated_Domain_Value_Definition: Frog
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gastropod
Enumerated_Domain_Value_Definition: Gastropod
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gull_tern
Enumerated_Domain_Value_Definition: Gull or tern
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: hardbottom
Enumerated_Domain_Value_Definition: Hardbottom
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: invert
Enumerated_Domain_Value_Definition: Invertebrate
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: kelp
Enumerated_Domain_Value_Definition: Kelp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: landfowl
Enumerated_Domain_Value_Definition: Landfowl
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lizard
Enumerated_Domain_Value_Definition: Lizard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lobster
Enumerated_Domain_Value_Definition: Lobster
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_benthic
Enumerated_Domain_Value_Definition: Marine benthic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_pelagic
Enumerated_Domain_Value_Definition: Marine pelagic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_resident
Enumerated_Domain_Value_Definition: Marine resident 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: pinniped
Enumerated_Domain_Value_Definition: Pinniped
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: polar bear
Enumerated_Domain_Value_Definition: Plant
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: raptor
Enumerated_Domain_Value_Definition: Raptor
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reef
Enumerated_Domain_Value_Definition: Reef
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reptile
Enumerated_Domain_Value_Definition: Reptile
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: sea_otter
Enumerated_Domain_Value_Definition: Sea otter
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: shellfish
Enumerated_Domain_Value_Definition: Shellfish
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: softbottom
Enumerated_Domain_Value_Definition: Snake
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: upland

Enumerated_Domain_Value_Definition: Upland vegetation
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: wetland
Enumerated_Domain_Value_Definition: Wetland
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: whale
Enumerated_Domain_Value_Definition: Whale
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: worm
Enumerated_Domain_Value_Definition: Worm
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: GRANK
Attribute_Definition: Global Rank of the species as defined by NatureServe
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NatureServe Global Conservation Status Ranks
Codeset_Source: NatureServe

Attribute:
Attribute_Label: GRANKDATE
Attribute_Definition: Date the GRANK was assessed
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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians

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: 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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: MON
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 "HERP" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for BENTHIC, 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 "HERP" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for BENTHIC, 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 "HERP" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for BENTHIC, 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 "HERP" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BENTHIC, 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 "HERP" then BREED5 = adults. This attribute is not used for BENTHIC, 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: 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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
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Metadata_Date: 202003
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Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute
Contact_Position: GIS Data Librarian
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Address_Type: mailing and physical address
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State_or_Province: Florida
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Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com
Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

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East Florida Environmental Sensitivity Index (ESI): BIRDSPT (Bird Points)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): BIRDSPT (Bird Points)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains sensitive biological resource data for wading birds, shorebirds, waterfowl, raptors, diving birds, and gulls and terns in East Florida. Vector points in this data set represent bird nesting 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three

main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the BIRDS data layer, part of the larger East Florida ESI database, for additional bird information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2005

Ending_Date: 2020

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2005 to 2020 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Bird

Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:
These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:
Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the East Florida ESI data.

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:
This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous

scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge, survey data, maps, and digital data on bird nesting sites. See also the BIRDS data layer, part of the larger East Florida ESI database, for additional bird information. These data do not necessarily represent all bird points occurrences in East Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 8, Double-crested cormorant, Phalacrocorax auritus; 54, Great blue heron, Ardea herodias; 61, Pectoral sandpiper, Calidris melanotos; 63, Dunlin, Calidris alpina; 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, Leucophaeus atricilla; 115, White ibis, Eudocimus albus; 116, Roseate spoonbill, Platalea ajaja; 118, Brown pelican, Pelecanus occidentalis; 120, Yellow-crowned night-heron, Nyctanassa violacea; 121, Anhinga, Anhinga anhinga; 132, Wood stork, Mycteria americana; 133, Black skimmer, Rynchops niger; 134, Gull-billed tern, Gelochelidon nilotica; 135, Sandwich tern, Thalasseus sandvicensis; 137, Royal tern, Thalasseus maximus; 142, Black-necked stilt, Himantopus mexicanus; 152, American oystercatcher, Haematopus palliatus; 154, Wilson's plover, Charadrius wilsonia; 155, Willet, Tringa semipalmata; 156, Semipalmated sandpiper, Calidris pusilla;

163, Reddish egret, Egretta rufescens; 211, Mottled duck, Anas fulvigula.

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:
ADRIENNE DOYLE, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2018
Title: WADING BIRD COLONY 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: 2016
Ending_Date: 2018

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: DAVID S. MAEHR AND HERBERT W. KALE II
Publication_Date: 2005
Title: FLORIDA'S BIRDS: A FIELD GUIDE AND REFERENCE, SECOND EDITION
Geospatial_Data_Presentation_Form: HARDCOPY TEXT
Publication_Information:
Publication_Place: SARASOTA, FL
Publisher: PINEAPPLE PRESS, INC.

Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: EBIRD
Publication_Date: 2020
Title:
EBIRD: AN ONLINE DATABASE OF BIRD DISTRIBUTION AND ABUNDANCE [WEB APPLICATION]

Geospatial_Data_Presentation_Form: ATLAS
Publication_Information:
Publication_Place: ITHACA, NEW YORK
Publisher: EBIRD, CORNELL LAB OF ORNITHOLOGY

Online_Linkage: http://www.ebird.org

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: ELENA SACHS, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2018
Title: WADING BIRD COLONY 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: 2016
Ending_Date: 2018

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, INDIAN RIVER LAGOON AQUATIC PRESERVES

Publication_Date: 2019

Title: BIRD MONITORING DATABASE, 2015-2019
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: 2015
Ending_Date: 2019

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2016
Title: EAGLE NESTING LOCATIONS FLORIDA 1998-2016
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED
Online_Linkage: https://geodata.myfwc.com/datasets/eagle-nesting

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 1998
Ending_Date: 2016

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2019
Title:
SPECIES CONSERVATION MEASURES AND PERMITTING GUIDELINES: LITTLE BLUE HERON, REDDISH EGRET, ROSEATE SPOONBILL, TRICOLORED HERON

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Online_Linkage:
https://myfwc.com/media/18634/threatened-wading-birds-guidelines.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:

Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
Publication_Date: 2019
Title: FLORIDA SHOREBIRD DATABASE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: NESTING AND ROVING CHICKS DATABASE
Online_Linkage: https://public.myfwc.com/crossdoi/shorebirds/index.aspx

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: KENNEDY SPACE CENTER - ERIC STOLEN
Publication_Date: 2020
Title:
SUMMARY OF WADING BIRD NESTING PEAK COUNTS ON KENNEDY SPECE CENTER/MERRITT ISLAND NATIONAL WILDLIFE REFUGE 1987-2019

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: 1987
Ending_Date: 2019

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: BIRDSPT INFORMATION

Process_Step:
Process_Description:
Three main sources of data were used to depict bird point distribution and seasonality for this data layer: 1) personal interviews with resource experts from National Aeronautics and Space Administration (NASA), Florida Fish and Wildlife Conservation Commission (FWC), U.S. Fish and Wildlife Service (USFWS), and the Florida Department of Environmental Protection (DEP); 2) numerous digital datasets, and 3) published and unpublished reports. Shorebirds - Shorebird nesting points were mapped from the Florida Shorebird Database. Colonial waterbird nesting areas – FWC,

Indian River Aquatic Preserves, and NASA Kennedy Space Center provided nesting data for colonial waterbirds. FWC provided a compilation of nesting data collected by USFWS, FWC, and FL DEP from 2011 to 2018. Indian River Aquatic Preserves provided data from 2015 to 2019. NASA Kennedy Space Center provided data from 2010 to 2019. Each nesting colony location was mapped as a nest point. The maximum number of nesting pairs observed for each species for each colony during the time period of available data was reported in the ESI. Overall, species mapped using colonial waterbird datasets include: anhinga, black-crowned night-heron, brown pelican, cattle egret, double-crested cormorant, glossy ibis, great blue heron, great egret, green heron, little blue heron, reddish egret, roseate spoonbill, snowy egret, tricolored heron, white ibis, wood stork, and yellow-crowned night-heron. Raptors – Bald eagle nest survey data (2016) were provided by FWC. Nest locations were mapped as points.

The above digital and/or hardcopy sources were compiled by the project biologist to create the BIRDSPT 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the BIRDSPT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

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: 559

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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, BIRDSPT) is linked to the Biological Resources table (BIORES) using RARNUM. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. BIORES and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: BIRDSPT

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

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: RARNUM
Attribute_Definition: An identifier that links directly to the BIORES 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: 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 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 vector objects in the biological data layers.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

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 of individuals (XX BIRDS). In cases where no quantitative count data was available, the field may either be blank or contain descriptive terms such as "HIGH" or "COMMON". 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: MAPPING_QUALIFIER
Attribute_Definition: An indication of why this feature was mapped in the ESI.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CALVING
Enumerated_Domain_Value_Definition: Calving
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: COLONY
Enumerated_Domain_Value_Definition: Colony
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CONCENTRATION AREA
Enumerated_Domain_Value_Definition: Concentration Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: DENNING
Enumerated_Domain_Value_Definition: Denning
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: GENERAL DISTRIBUTION
Enumerated_Domain_Value_Definition: General Distribution
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HARVEST AREA
Enumerated_Domain_Value_Definition: Harvest Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAUL OUT
Enumerated_Domain_Value_Definition: Haul Out
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAZARD
Enumerated_Domain_Value_Definition: Hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HIGH ECOLOGICAL VALUE
Enumerated_Domain_Value_Definition: High Ecological Value
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MIGRATION
Enumerated_Domain_Value_Definition: Migration
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NESTING
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NURSERY AREA
Enumerated_Domain_Value_Definition: Nursery Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: PUPPING
Enumerated_Domain_Value_Definition: Pupping
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RAFTING
Enumerated_Domain_Value_Definition: Rafting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ROOSTING
Enumerated_Domain_Value_Definition: Roosting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPAWNING AREA
Enumerated_Domain_Value_Definition: Spawning Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: THERMAL REFUGE
Enumerated_Domain_Value_Definition: Thermal Refuge
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VULNERABLE OCCURRENCE
Enumerated_Domain_Value_Definition: Vulnerable Occurrence
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WINTERING
Enumerated_Domain_Value_Definition: Wintering
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: Insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alcid
Enumerated_Domain_Value_Definition: Alcid
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: algae
Enumerated_Domain_Value_Definition: Algae
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alligator
Enumerated_Domain_Value_Definition: Alligator
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: amphibian
Enumerated_Domain_Value_Definition: Amphibian
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: anadromous
Enumerated_Domain_Value_Definition: Anadromous fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: barnacle
Enumerated_Domain_Value_Definition: Barnacle
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: bat
Enumerated_Domain_Value_Definition: Bat
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: bird
Enumerated_Domain_Value_Definition: Bird
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: chordate
Enumerated_Domain_Value_Definition: Chordate
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: echinoderm
Enumerated_Domain_Value_Definition: Echinoderm
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: feline
Enumerated_Domain_Value_Definition: Feline
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: frog
Enumerated_Domain_Value_Definition: Frog
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gastropod
Enumerated_Domain_Value_Definition: Gastropod
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gull_tern
Enumerated_Domain_Value_Definition: Gull or tern
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: hardbottom
Enumerated_Domain_Value_Definition: Hardbottom
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: invert
Enumerated_Domain_Value_Definition: Invertebrate
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: kelp
Enumerated_Domain_Value_Definition: Kelp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: landfowl
Enumerated_Domain_Value_Definition: Landfowl
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lizard
Enumerated_Domain_Value_Definition: Lizard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lobster
Enumerated_Domain_Value_Definition: Lobster

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_benthic
Enumerated_Domain_Value_Definition: Marine benthic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_pelagic
Enumerated_Domain_Value_Definition: Marine pelagic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_resident
Enumerated_Domain_Value_Definition: Marine resident 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: pinniped
Enumerated_Domain_Value_Definition: Pinniped
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: polar bear
Enumerated_Domain_Value_Definition: Plant
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: raptor

Enumerated_Domain_Value_Definition: Raptor
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reef
Enumerated_Domain_Value_Definition: Reef
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reptile
Enumerated_Domain_Value_Definition: Reptile
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: sea_otter
Enumerated_Domain_Value_Definition: Sea otter
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: shellfish
Enumerated_Domain_Value_Definition: Shellfish
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: softbottom
Enumerated_Domain_Value_Definition: Snake
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

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

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: wetland
Enumerated_Domain_Value_Definition: Wetland
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: whale
Enumerated_Domain_Value_Definition: Whale
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: worm
Enumerated_Domain_Value_Definition: Worm
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: GRANK
Attribute_Definition: Global Rank of the species as defined by NatureServe
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NatureServe Global Conservation Status Ranks

Codeset_Source: NatureServe

Attribute:

Attribute_Label: GRANKDATE

Attribute_Definition: Date the GRANK was assessed

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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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: BENTHIC

Enumerated_Domain_Value_Definition: Benthic

Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: MON
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 "HERP" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for BENTHIC, 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 "HERP" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for BENTHIC, 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 "HERP" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for BENTHIC, 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 "HERP" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BENTHIC, 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 "HERP" then BREED5 = adults. This attribute is not used for BENTHIC, 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: BENTHIC

Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: 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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
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Contact_Person_Primary:
Contact_Person: GISLibrarian
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Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

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Metadata_Date: 202003
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Contact_Person: GISLibrarian
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City: St. Petersburg
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Metadata_Standard_Version: FGDC-STD-001-1998

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East Florida Environmental Sensitivity Index (ESI): ESIL (Environmental Sensitivity Index Shoreline Types - Lines)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:

East Florida Environmental Sensitivity Index (ESI): ESIL (Environmental Sensitivity Index Shoreline Types - Lines)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

This data set contains vector lines representing the ESI classified shoreline of East Florida classified according to the Environmental Sensitivity Index (ESI) classification system. This data set comprises a portion of the ESI data for Florida. ESI data characterize the marine and coastal environments and

wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the ESIP data layer, part of the larger East Florida ESI database, for additional ESI information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:
The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2001
Ending_Date: 2017

Currentness_Reference:
The data were compiled during 2017-2020. The currentness dates for this data range from 2001 to 2017 and are documented in the Lineage section.

Status:
Progress: Complete
Maintenance_and_Update_Frequency:
A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:
Theme:
Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent coastal shorelines classified according to the Environmental Sensitivity Index (ESI) classification system. See also the ESIP data layer, part of the larger East Florida 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 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: ESRI & STATE OF FLORIDA (DUVAL COUNTY)

Publication_Date: 2017
Title: ARCGIS BASEMAP WORLD IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

Publication_Date: 2016
Title: ARCGIS BASEMAP WORLD IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2013
Ending_Date: 2016

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) & FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date: 201610
Title: COOPERATIVE LAND COVER VERSION 3.2
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FLORIDA
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) & FLORIDA NATURAL AREAS INVENTORY (FNAI)

Online_Linkage: http://fnai.org/LandCover.cfm

Type_of_Source_Media: ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 200801
Ending_Date: 201610

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) - CHRISTI SANTI

Publication_Date: 201703
Title:
SALT MARSH AND MANGROVE POLYGONAL DATASETS (SALT_MARSH_FL_POLY.ZIP) & (MANGROVE_FL_POLY.ZIP)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

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

Publication_Date: 2013
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: SOUTH FLORIDA: ESIL (ENVIRONMENTAL SENSITIVITY INDEX SHORELINE TYPES - LINES)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)

Online_Linkage:
http://geodata.myfwc.com/datasets/2910418e885f4d69823021720e0156e3_24?page=5907

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2003
Ending_Date: 2012

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

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

Publication_Date: 20060201
Title: SHORELINE POLYGON 1:12,000 SCALE FLORIDA 2004
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST. PETERSBURG, FLORIDA
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND WILDLIFE RESEARCH INSTITUTE) (FWC-FWRI)

Online_Linkage:
http://geodata.myfwc.com/datasets/eda0c60e98cd43af9422dc5ea54d8d56_0

Source_Scale_Denominator: 12000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20040101
Ending_Date: 20060201

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI) - LATOSHA THOMPSON

Publication_Date: 2017
Title: DRAFT SHORELINE UPDATED SHAPEFILE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC),

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2015
Ending_Date: 2017

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: GOOGLE EARTH
Publication_Date: 2017
Title: GOOGLE EARTH IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED
Online_Linkage: http://google.com/earth

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL GEODETIC SURVEY (NGS)

Publication_Date: 20160727
Title: NOAA CONTINUALLY UPDATED SHORELINE PRODUCT (CUSP)
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: SILVER SPRING, MARYLAND
Publisher:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL GEODETIC SURVEY (NGS)

Online_Linkage: https://shoreline.noaa.gov/data/datasheets/cusp.html

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20011108
Ending_Date: 20160727

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: PICTOMETRY INTERNATIONAL CORPORATION
Publication_Date: 2017
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:
Range_of_Dates/Times:
Beginning_Date: 2009
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
U.S. FISH AND WILDLIFE SERVICE (USFWS) NATIONAL WETLANDS INVENTORY (NWI)

Publication_Date: 20141016
Title: NATIONAL SPATIAL DATA INFRASTRUCTURE WETLANDS LAYER
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: WASHINGTON, D.C.
Publisher: U.S. FISH AND WILDLIFE SERVICE (USFWS)

Online_Linkage: http://www.fws.gov/wetlands/

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2014
Ending_Date: 2014

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIL INFORMATION

Process_Step:
Process_Description:
Original ESI shoreline and classifications were re-examined and fully updated using the sources and methods described below. The East Florida shoreline was derived from the integration of the

National Oceanic and Atmospheric Administration (NOAA) Continually Updated Shoreline Product (CUSP, 2001-2016); the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FFWC-FWRI) shoreline (2004-2006 and 2015 update) and the 2012 South Florida shoreline update; marshes and mangroves data from FFWC (2017); land use/land cover (LULC) data provided by Florida Natural Areas Inventory (FNAI, 2008-2016); and the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) dataset (2014). The shoreline was updated as necessary by manual digitization at 1:4,000 from BING Bird's Eye and Aerial imagery (2009-2017), ESRI Basemap World Imagery (2013-2017), and Google Earth aerial imagery (2017). The most recent shoreline was utilized where available. The intertidal shoreline habitats were classified based on the FFWC marshes and mangroves data; FNAI LULC wetland polygons; USFWS NWI wetland polygons; and low-altitude oblique and nadir aerial imagery from BING Bird's Eye, BING Aerial, ESRI Basemap, and Google Earth.

The above digital and/or hardcopy sources were compiled to create the ESIL 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the ESIL data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 29683

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001

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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, one relational attribute or data table, SOURCES, is used to store the source data information in the ESI data structure. The geographic data layer containing resource information (in this case, ESIL) is linked to the SOURCES table using the SOURCE_ID. The entity-relationship diagram describes relationships between 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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: ESIL

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

Entity_Type_Definition_Source: NOAA ESI Guidelines

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

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1A
Enumerated_Domain_Value_Definition: Exposed Rocky Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1B
Enumerated_Domain_Value_Definition: Exposed, Solid Man-made Structures
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 2A
Enumerated_Domain_Value_Definition: Exposed Wave-cut Platforms in Bedrock, Mud, or Clay
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 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: Exposed Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 8A
Enumerated_Domain_Value_Definition:

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: 8D
Enumerated_Domain_Value_Definition: Sheltered Rocky Rubble Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9A
Enumerated_Domain_Value_Definition: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9B
Enumerated_Domain_Value_Definition: Vegetated Low Banks
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9C
Enumerated_Domain_Value_Definition: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10A
Enumerated_Domain_Value_Definition: Salt- and Brackish-water Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10B
Enumerated_Domain_Value_Definition: Freshwater Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10C
Enumerated_Domain_Value_Definition: Swamps
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value: 10D
Enumerated_Domain_Value_Definition: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10F
Enumerated_Domain_Value_Definition: Mangroves
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: 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:
Attribute_Label: MOST_SENSITIVE
Attribute_Definition:
If multiple shoreline types appear in ESI classification, this field represents the highest value (most sensitive type); otherwise it is the same value as the ESI field.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1A
Enumerated_Domain_Value_Definition: Exposed Rocky Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1B

Enumerated_Domain_Value_Definition: Exposed, Solid Man-made Structures
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 2A
Enumerated_Domain_Value_Definition: Exposed Wave-cut Platforms in Bedrock, Mud, or Clay
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 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: Exposed 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: 8D
Enumerated_Domain_Value_Definition: Sheltered Rocky Rubble Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9A
Enumerated_Domain_Value_Definition: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9B
Enumerated_Domain_Value_Definition: Vegetated Low Banks
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9C
Enumerated_Domain_Value_Definition: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10A
Enumerated_Domain_Value_Definition: Salt- and Brackish-water Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10B
Enumerated_Domain_Value_Definition: Freshwater Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10C
Enumerated_Domain_Value_Definition: Swamps
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10D
Enumerated_Domain_Value_Definition: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10F
Enumerated_Domain_Value_Definition: Mangroves
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: LANDWARD_SHORETYPE
Attribute_Definition:
The numeric representation and physical description of the first (or only) ESI type found in the ESI field.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1A: Exposed Rocky Shores
Enumerated_Domain_Value_Definition: Exposed Rocky Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1B: Exposed, Solid Man-made Structures
Enumerated_Domain_Value_Definition: Exposed, Solid Man-made Structures
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 2A: Exposed Wave-cut Platforms in Bedrock, Mud, or Clay
Enumerated_Domain_Value_Definition: Exposed Wave-cut Platforms in Bedrock, Mud, or Clay
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 3A: Fine- to Medium-grained Sand Beaches
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: Scarps and Steep Slopes in Sand
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: Coarse-grained Sand Beaches
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: Mixed Sand and Gravel Beaches
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: Gravel Beaches
Enumerated_Domain_Value_Definition: Gravel Beaches
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 6B: Riprap
Enumerated_Domain_Value_Definition: Riprap
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 7: Exposed Tidal Flats
Enumerated_Domain_Value_Definition: Exposed Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
8A: Sheltered Rocky Shores and Sheltered Scarps in Bedrock, Mud, or Clay

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: Sheltered, Solid Man-made Structures
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: Sheltered Riprap
Enumerated_Domain_Value_Definition: Sheltered Riprap
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 8D: Sheltered Rocky Rubble Shores
Enumerated_Domain_Value_Definition: Sheltered Rocky Rubble Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9A: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9B: Vegetated Low Banks
Enumerated_Domain_Value_Definition: Vegetated Low Banks
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9C: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition: Hypersaline Tidal Flats

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10A: Salt- and Brackish-water Marshes
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: Freshwater Marshes
Enumerated_Domain_Value_Definition: Freshwater Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10C: Swamps
Enumerated_Domain_Value_Definition: Swamps
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10D: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10F: Mangroves
Enumerated_Domain_Value_Definition: Mangroves
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: SEAWARD_SHORETYPE1
Attribute_Definition:
The numeric representation and physical description of the second ESI type in the ESI field (NULL if not applicable).

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1A: Exposed Rocky Shores
Enumerated_Domain_Value_Definition: Exposed Rocky Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1B: Exposed, Solid Man-made Structures
Enumerated_Domain_Value_Definition: Exposed, Solid Man-made Structures
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 2A: Exposed Wave-cut Platforms in Bedrock, Mud, or Clay
Enumerated_Domain_Value_Definition: Exposed Wave-cut Platforms in Bedrock, Mud, or Clay
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: 3A: Fine- to Medium-grained Sand Beaches
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: Scarps and Steep Slopes in Sand
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: Coarse-grained Sand Beaches
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: Mixed Sand and Gravel Beaches
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: Gravel Beaches
Enumerated_Domain_Value_Definition: Gravel Beaches
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 6B: Riprap
Enumerated_Domain_Value_Definition: Riprap
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 7: Exposed Tidal Flats
Enumerated_Domain_Value_Definition: Exposed Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
8A: Sheltered Rocky Shores and Sheltered Scarps in Bedrock, Mud, or Clay

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: Sheltered, Solid Man-made Structures
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: Sheltered Riprap

Enumerated_Domain_Value_Definition: Sheltered Riprap
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 8D: Sheltered Rocky Rubble Shores
Enumerated_Domain_Value_Definition: Sheltered Rocky Rubble Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9A: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9B: Vegetated Low Banks
Enumerated_Domain_Value_Definition: Vegetated Low Banks
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9C: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10A: Salt- and Brackish-water Marshes
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: Freshwater Marshes
Enumerated_Domain_Value_Definition: Freshwater Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10C: Swamps
Enumerated_Domain_Value_Definition: Swamps
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10D: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10F: Mangroves
Enumerated_Domain_Value_Definition: Mangroves
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: SEAWARD_SHORETYPE2

Attribute_Definition:
The numeric representation and physical description of the third ESI type in the ESI field (NULL if not applicable).

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1A: Exposed Rocky Shores
Enumerated_Domain_Value_Definition: Exposed Rocky Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1B: Exposed, Solid Man-made Structures
Enumerated_Domain_Value_Definition: Exposed, Solid Man-made Structures
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 2A: Exposed Wave-cut Platforms in Bedrock, Mud, or Clay
Enumerated_Domain_Value_Definition: Exposed Wave-cut Platforms in Bedrock, Mud, or Clay
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 3A: Fine- to Medium-grained Sand Beaches
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: Scarps and Steep Slopes in Sand
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: Coarse-grained Sand Beaches
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: Mixed Sand and Gravel Beaches
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: Gravel Beaches
Enumerated_Domain_Value_Definition: Gravel Beaches
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 6B: Riprap
Enumerated_Domain_Value_Definition: Riprap
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 7: Exposed Tidal Flats
Enumerated_Domain_Value_Definition: Exposed Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
8A: Sheltered Rocky Shores and Sheltered Scarps in Bedrock, Mud, or Clay

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: Sheltered, Solid Man-made Structures
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: Sheltered Riprap
Enumerated_Domain_Value_Definition: Sheltered Riprap
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 8D: Sheltered Rocky Rubble Shores
Enumerated_Domain_Value_Definition: Sheltered Rocky Rubble Shores
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9A: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9B: Vegetated Low Banks
Enumerated_Domain_Value_Definition: Vegetated Low Banks
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9C: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10A: Salt- and Brackish-water Marshes
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: Freshwater Marshes
Enumerated_Domain_Value_Definition: Freshwater Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10C: Swamps
Enumerated_Domain_Value_Definition: Swamps
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10D: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10F: Mangroves
Enumerated_Domain_Value_Definition: Mangroves
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: GENERAL_SYMBOL
Attribute_Definition:
This field is used for symbolizing the ESI shoreline based on a generalized classification scheme; if multiple generalized types occur, this will reflect the highest value.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: 5

Attribute:
Attribute_Label: GENERALIZED_ESI_TYPE
Attribute_Definition:
The numeric representation and physical description of the generalized ESI shoreline type. See the NOAA ESI Guidelines for the ESI to GENERALIZED_ESI_TYPE crosswalk.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1: Armored
Enumerated_Domain_Value_Definition: Armored
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 2: Rocky and Steep Shorelines (Bedrock/Sand/Clay)
Enumerated_Domain_Value_Definition: Rocky and Steep Shorelines (Bedrock/Sand/Clay)
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 3: Beaches (Sand/Gravel)
Enumerated_Domain_Value_Definition: Beaches (Sand/Gravel)
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 4: Flats (Mud/Sand)
Enumerated_Domain_Value_Definition: Flats (Mud/Sand)
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 5: Vegetated (Grass/Marsh/Mangroves/Scrub-Shrub)
Enumerated_Domain_Value_Definition: Vegetated (Grass/Marsh/Mangroves/Scrub-Shrub)
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 id 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: ESI_SOURCE
Attribute_Definition:
Source identifier that links to the SOURCES data table. This id 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 BIORES table; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

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Contact_Person: GISLibrarian
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East Florida Environmental Sensitivity Index (ESI): ESIP (Environmental Sensitivity Index Shoreline Types - Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

Metadata:

- Identification_Information
- Data_Quality_Information
- Spatial_Data_Organization_Information
- Spatial_Reference_Information
- Entity_and_Attribute_Information
- Distribution_Information
- Metadata_Reference_Information

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East Florida Environmental Sensitivity Index (ESI): ESIP (Environmental Sensitivity Index Shoreline Types - Polygons)

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Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

This data set contains vector polygons representing the coastal habitats of East Florida classified according to the Environmental Sensitivity Index (ESI) classification system. This data set comprises a portion of the ESI data for Florida. ESI data characterize the marine and coastal environments and

wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the ESIL data layer, part of the larger East Florida ESI database, for additional ESI information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data

Purpose:
The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2001
Ending_Date: 2017

Currentness_Reference:
The data were compiled during 2017-2020. The currentness dates for this data range from 2001 to 2017 and are documented in the Lineage section.

Status:
Progress: Complete
Maintenance_and_Update_Frequency:
A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:
Theme:
Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent coastal habitats classified according to the Environmental Sensitivity Index (ESI) classification system. See also the ESIL data layer, part of the larger East Florida 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.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: ESRI & STATE OF FLORIDA (DUVAL COUNTY)
Publication_Date: 2017
Title: ARCGIS BASEMAP WORLD IMAGERY

Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

Publication_Date: 2016
Title: ARCGIS BASEMAP WORLD IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2013
Ending_Date: 2016

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) & FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date: 201610
Title: COOPERATIVE LAND COVER VERSION 3.2
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FLORIDA
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) & FLORIDA NATURAL AREAS INVENTORY (FNAI)

Online_Linkage: http://fnai.org/LandCover.cfm

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:

Range_of_Dates/Times:
Beginning_Date: 200801
Ending_Date: 201610

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) - CHRISTI SANTI

Publication_Date: 201703
Title:
SALT MARSH AND MANGROVE POLYGONAL DATASETS (SALT_MARSH_FL_POLY.ZIP) & (MANGROVE_FL_POLY.ZIP)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

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

Publication_Date: 2009
Title: TIDAL FLATS IN FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)

Online_Linkage: http://geodata.myfwc.com/datasets/tidal-flats-in-florida

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 1977

Ending_Date: 2009

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

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

Publication_Date: 2013
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: SOUTH FLORIDA: ESIL (ENVIRONMENTAL SENSITIVITY INDEX SHORELINE TYPES - LINES)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)

Online_Linkage:
http://geodata.myfwc.com/datasets/2910418e885f4d69823021720e0156e3_24?page=5907

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2003
Ending_Date: 2012

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

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

Publication_Date: 20060201
Title: SHORELINE POLYGON 1:12,000 SCALE FLORIDA 2004
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST. PETERSBURG, FLORIDA
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND WILDLIFE RESEARCH INSTITUTE) (FWC-FWRI)

Online_Linkage:

http://geodata.myfwc.com/datasets/eda0c60e98cd43af9422dc5ea54d8d56_0

Source_Scale_Denominator: 12000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20040101
Ending_Date: 20060201

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI) - LATOSHA THOMPSON

Publication_Date: 2017
Title: DRAFT SHORELINE UPDATED SHAPEFILE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2015
Ending_Date: 2017

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: GOOGLE EARTH
Publication_Date: 2017
Title: GOOGLE EARTH IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED
Online_Linkage: http://google.com/earth

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL GEODETIC SURVEY (NGS)

Publication_Date: 20160727
Title: NOAA CONTINUALLY UPDATED SHORELINE PRODUCT (CUSP)
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: SILVER SPRING, MARYLAND
Publisher:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL GEODETIC SURVEY (NGS)

Online_Linkage: https://shoreline.noaa.gov/data/datasheets/cusp.html

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20011108
Ending_Date: 20160727

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: PICTOMETRY INTERNATIONAL CORPORATION
Publication_Date: 2017
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:
Range_of_Dates/Times:
Beginning_Date: 2009
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: ESIP INFORMATION

Process_Step:
Process_Description:

Original ESI shoreline and classifications were re-examined and fully updated using the sources and methods described below. The East Florida shoreline was derived from the integration of the National Oceanic and Atmospheric Administration (NOAA) Continually Updated Shoreline Product (CUSP, 2001-2016); the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC-FWRI) shoreline (2004-2006 and 2015 update) and the 2012 South Florida shoreline update; marshes and mangroves data from FFWC (2017); land use/land cover (LULC) data provided by Florida Natural Areas Inventory (FNAI, 2008-2016); and the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) dataset (2014). The shoreline was updated as necessary by manual digitization at 1:4,000 from BING Bird's Eye and Aerial imagery (2009-2017), ESRI Basemap World Imagery (2013-2017), and Google Earth aerial imagery (2017). The most recent shoreline was utilized where available. The intertidal shoreline habitats were classified based on the FFWC marshes and mangroves data; FNAI LULC wetland polygons; FFWC Tidal Flats; USFWS NWI wetland polygons; and low-altitude oblique and nadir aerial imagery from BING Bird's Eye, BING Aerial, ESRI Basemap, and Google Earth.

The above digital and/or hardcopy sources were compiled to create the ESIP 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the ESIP data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 49598

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:

Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, one relational attribute or data table, SOURCES, is used to store the source data information in the ESI data structure. The geographic data layer containing resource information (in this case, ESIP) is linked to the SOURCES table using the SOURCE_ID. The entity-relationship diagram describes relationships between 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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: ESIP

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

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: ESI
Attribute_Definition: The item ESI contains values representing the ESI polygon type.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 7
Enumerated_Domain_Value_Definition: Exposed Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9A
Enumerated_Domain_Value_Definition: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9C
Enumerated_Domain_Value_Definition: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10A
Enumerated_Domain_Value_Definition: Salt- and Brackish-water Marshes

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10B
Enumerated_Domain_Value_Definition: Freshwater Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10C
Enumerated_Domain_Value_Definition: Swamps
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10D
Enumerated_Domain_Value_Definition: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10E
Enumerated_Domain_Value_Definition: Inundated Low-lying Tundra
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:
Attribute_Label: ESI_DESCRIPTION
Attribute_Definition:
The numeric representation and the physical description of the polygon's ESI type.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: 7: Exposed Tidal Flats
Enumerated_Domain_Value_Definition: Exposed Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9A: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition: Sheltered Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 9C: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition: Hypersaline Tidal Flats
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10A: Salt- and Brackish-water Marshes
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: Freshwater Marshes
Enumerated_Domain_Value_Definition: Freshwater Marshes
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10C: Swamps
Enumerated_Domain_Value_Definition: Swamps
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10D: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition: Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10E: Inundated Low-lying Tundra
Enumerated_Domain_Value_Definition: Inundated Low-lying Tundra
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 id 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: ESI_SOURCE
Attribute_Definition:
Source identifier that links to the SOURCES data table. This id indicates the source of the ESI classification of a polygon. 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 BIORES table; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:

Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Wed Apr 08 10:10:46 2020

East Florida Environmental Sensitivity Index (ESI): FISH (Fish Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:

East Florida Environmental Sensitivity Index (ESI): FISH (Fish Polygons)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

This data set contains sensitive biological resource data for marine, estuarine, anadromous, and freshwater fish species in East Florida. Vector polygons in this data set represent fish distribution, concentration 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The

ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2003

Ending_Date: 2020

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2003 to 2020 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Fish

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge, digital data and hardcopy maps. These data do not necessarily represent all fish occurrences in East Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 65, Bluefish, Pomatomus saltatrix; 101, Shortnose sturgeon, Acipenser brevirostrum; 102, Atlantic sturgeon, Acipenser oxyrinchus; 107, Spotted seatrout, Cynoscion nebulosus; 109, Red drum, Sciaenops ocellatus; 110, Black sea bass, Centropristis striata; 111, Southern flounder, Paralichthys lethostigma; 114, Florida pompano, Trachinotus carolinus; 121, Spot, Leiostomus xanthurus; 122, Black drum, Pogonias cromis; 123, Atlantic croaker, Micropogonias undulatus; 128, Blue runner, Caranx crysos; 131, Great barracuda, Sphyraena barracuda; 134, Cobia, Rachycentron canadum; 136, Dolphinfish, Coryphaena hippurus; 137, Sheepshead, Archosargus probatocephalus; 143, Tarpon, Megalops atlanticus; 179, Largemouth bass, Micropterus salmoides; 182, Bluegill, Lepomis macrochirus; 201, Channel catfish, Ictalurus punctatus; 203, Warmouth, Lepomis gulosus; 204, Redear sunfish, Lepomis microlophus; 218, Bowfin, Amia calva; 268, Silver seatrout, Cynoscion nothus; 282, Mullet, Mugil spp.; 302, Gag, Mycteroperca microlepis; 303, Permit, Trachinotus falcatus; 305, Red snapper, Lutjanus campechanus; 306, Gray snapper, Lutjanus griseus; 307, Lane snapper, Lutjanus synagris; 315, Blacktip shark, Carcharhinus limbatus; 316, Spinner shark, Carcharhinus brevipinna; 317, Bull shark, Carcharhinus leucas; 318, Atlantic sharpnose shark, Rhizoprionodon terraenovae; 326, Bonnethead, Sphyrna tiburo; 332, Tiger shark, Galeocerdo cuvier; 334, Finetooth shark, Carcharhinus isodon; 354, Scamp, Mycteroperca phenax; 356, Greater amberjack, Seriola dumerili; 389, Nassau grouper, Epinephelus striatus; 403, Oceanic whitetip shark, Carcharhinus longimanus; 438, Scalloped hammerhead, Sphyrna lewini; 464,

Longnose gar, Lepisosteus osseus; 495, Gray triggerfish, Balistes capriscus; 499, Mackerels, Scomberomorus spp.; 508, Snook, Centropomus spp.; 514, Mutton snapper, Lutjanus analis; 515, Yellowtail snapper, Ocyurus chrysurus; 518, Goliath grouper, Epinephelus itajara; 521, Blue marlin, Makaira nigricans; 522, Yellowfin tuna, Thunnus albacares; 523, Swordfish, Xiphias gladius; 525, Bonefish, Albula vulpes; 638, Wahoo, Acanthocybium solandri; 729, Mahogany snapper, Lutjanus mahogoni; 776, Red grouper, Epinephelus morio; 791, Sailfish, Istiophorus platypterus; 792, Skipjack tuna, Katsuwonus pelamis; 807, Black grouper, Mycteroperca bonaci; 836, Bigeye tuna, Thunnus obesus; 883, Vermilion snapper, Rhomboplites aurorubens; 886, Great hammerhead, Sphyrna mokarran; 946, Albacore, Thunnus alalunga; 967, Sandbar shark, Carcharhinus plumbeus; 968, Nurse shark, Ginglymostoma cirratum; 985, Redbreast sunfish, Lepomis auritus; 995, Giant manta, Manta birostris; 1107, Sand tiger, Carcharias taurus; 1146, Bluefin tuna, Thunnus thynnus; 1154, Snowy grouper, Hyporthodus niveatus; 1155, Warsaw grouper, Hyporthodus nigritus; 1158, Kingfishes, Menticirrhus spp.; 1159, Smalltooth sawfish, Pristis pectinata; 1160, Blacknose shark, Carcharhinus acronotus; 1183, Graysby, Cephalopholis cruentata; 1217, Lemon shark, Negaprion brevirostris; 1219, Mangrove rivulus, Kryptolebias marmoratus; 1223, White marlin, Kajikia albida; 1249, Blue shark, Prionace glauca; 1276, Menhaden, Brevoortia spp.; 1279, Florida gar, Lepisosteus platyrhincus.

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: ADAM BRAME - NOAA NATIONAL MARINE FISHERIES SERVICE
Publication_Date: 2019
Title: SMALLTOOTH SAWFISH DISTRIBUTION
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: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator: ANDREW HERNDON, NOAA FISHERIES
Publication_Date: 2020
Title: EXPERT KNOWLEDGE OF STURGEON DISTRIBUTION

Geospatial_Data_Presentation_Form: EXPERT KNOWLEDGE

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: Adams, D. H., and R. Paperno
Publication_Date: 2007
Title:
PRELIMINARY ASSESSMENT OF A NEARSHORE NURSERY GROUND FOR THE SCALLOPED HAMMERHEAD OFF THE ATLANTIC COAST OF FLORIDA

Geospatial_Data_Presentation_Form: DOCUMENT
Other_Citation_Details: AMERICAN FISHERIES SOCIETY SYMPOSIUM 50:165-174

Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2007

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: CALUSA HORN, NOAA PROTECTED RESOURCES DIVISION
Publication_Date: 2019
Title: MANTA RAY SIGHTINGS BY MONTH
Geospatial_Data_Presentation_Form: MAP
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: Curtis, T. H., D. H. Adams, and G. H. Burgess
Publication_Date: 2011

Title:
SEASONAL DISTRIBUTION AND HABITAT ASSOCIATIONS OF BULL SHARKS IN THE INDIAN RIVER LAGOON, FLORIDA: A 30-YEAR SYNTHESIS

Geospatial_Data_Presentation_Form: DOCUMENT
Other_Citation_Details: Transactions of the American Fisheries Society 140:1213–1226

Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2011

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: ERIC SAWYERS, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2019
Title: FRESHWATER FISH SAMPLING 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: 2006
Ending_Date: 2019

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2017
Title: FISHERY INDEPENDENT MONITORING - INSHORE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2013
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION, FWRI
Publication_Date: 2018
Title: LANE SNAPPER, LUTJANUS SYNAGRIS (LINNAEUS, 1758)
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://myfwc.com/media/19239/lane-snapper-18.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION, FWRI
Publication_Date: 2018
Title: RED GROUPER, EPINEPHELUS MORIO (VALENCIENNES, 1828)
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://myfwc.com/media/19247/red-grouper-18.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION, FWRI
Publication_Date: 2018
Title: RED SNAPPER, LUTJANUS CAMPECHANUS (POEY, 1860)
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://myfwc.com/media/19249/red-snapper-18.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION, FWRI
Publication_Date: 2019
Title: COMMON SNOOK, CENTROPOMUS UNDECIMALIS (BLOCK, 1792)
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://myfwc.com/media/22891/status-trends-2019-snook.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION, FWRI
Publication_Date: 2019
Title: RED DRUM, SCIAENOPS OCELLATUS (LINNAEUS, 1766)
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://myfwc.com/media/22882/status-trends-2019-drum.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA NATURAL AREAS INVENTORY (FNAI)
Publication_Date: 2019
Title: FNAI ELEMENT OCCURRENCE POLYGON DATA LAYER
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: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FOX, A. G., WIRGIN, I. I. & PETERSON, DOUGLAS L.
Publication_Date: 2018
Title: OCCURRENCE OF ATLANTIC STURGEON IN THE ST. MARYS RIVER, GEORGIA
Geospatial_Data_Presentation_Form: DOCUMENT
Other_Citation_Details: MARINE AND COASTAL FISHERIES 10, 606-618
Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018
Source_Currentness_Reference: DATE OF PUBLICATION
Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FOX, ADAM G., EDWARD S. STOWE, KEITH J. DUNTON, AND DOUGLAS L. PETERSON.
Publication_Date: 2018
Title:
SEASONAL OCCURRENCE OF ATLANTIC STURGEON (ACIPENSER OXYRINCHUS OXYRINCHUS) IN THE ST. JOHNS RIVER, FLORIDA
Geospatial_Data_Presentation_Form: DOCUMENT
Other_Citation_Details: FISHERY BULLETIN 116 (3-4) L219-27
Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018
Source_Currentness_Reference: DATE OF PUBLICATION
Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
KOENIG, C., L. BUENO, F. COLEMAN, J. CUSICK, R. ELLIS, K. KINGON, J. LOCASCIO, C. MALINOWSKI, D. MURIE, AND C. STALLINGS
Publication_Date: 2017
Title:
DIEL, LUNAR, AND SEASONAL SPAWNING PATTERNS OF THE ATLANTIC GOLIATH GROUPER, EPINEPHELUS ITAJARA, OFF FLORIDA, UNITED STATES
Geospatial_Data_Presentation_Form: DOCUMENT

Other_Citation_Details: Bulletin of Marine Science 93:391–406

Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2017

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: MCCALLISTER, M., R. FORD, AND J. GELSLEICHTER
Publication_Date: 2013
Title:
ABUNDANCE AND DISTRIBUTION OF SHARKS IN NORTHEAST FLORIDA WATERS AND IDENTIFICATION OF POTENTIAL NURSERY HABITAT

Geospatial_Data_Presentation_Form: DOCUMENT
Other_Citation_Details: MARINE AND COASTAL FISHERIES 5:200–210

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2013

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: NATIONAL MARINE FISHERIES SERVICE
Publication_Date: 2013
Title:
NASSAU GROUPER, EPINEPHELUS STRIATUS (BLOCH 1792): BIOLOGICAL REPORT

Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://repository.library.noaa.gov/view/noaa/16285

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2013

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:

Citation_Information:
Originator: NOAA FISHERIES
Publication_Date: 2016
Title: REEF VISUAL CENSUS SURVEY DATA, 2013-2016
Geospatial_Data_Presentation_Form: TABULAR DIGITAL DATA

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2013
Ending_Date: 2016

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL MARINE FISHERIES SERVICE: OFFICE OF SUSTAINABLE FISHERIES

Publication_Date: 2017
Title:
AMENDMENT 10 TO THE 2006 CONSOLIDATED ATLANTIC HIGHLY MIGRATORY SPECIES FISHERY MANAGEMENT PLAN: ESSENTIAL FISH HABITAT AND ENVIRONMENTAL ASSESSMENT

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: SILVER SPRING, MARYLAND
Publisher: HIGHLY MIGRATORY SPECIES MANAGEMENT DIVISION

Other_Citation_Details: ALSO USED CORRESPONDING SHAPEFILES

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2017

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
REYIER, E. A., B. R. FRANKS, D. D. CHAPMAN, D. M. SCHEIDT, E. D. STOLEN, AND S. H. GRUBER

Publication_Date: 2014
Title:
REGIONAL-SCALE MIGRATIONS AND HABITAT USE OF JUVENILE LEMON SHARKS (NEGAPRION BREVIROSTRIS) IN THE US SOUTH ATLANTIC

Geospatial_Data_Presentation_Form: DOCUMENT
Other_Citation_Details: PLOS ONE 9:E88470
Online_Linkage: https://dx.plos.org/10.1371/journal.pone.0088470

Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2014

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: SEAMAP - SA DATA MANAGEMENT WORK GROUP
Publication_Date: 2020
Title: SEAMAP - SA ONLINE DATABASE
Geospatial_Data_Presentation_Form: TABULAR DIGITAL DATA
Other_Citation_Details: RETRIEVED JANUARY 15, 2020
Online_Linkage: http://www.dnr.sc.gov/SEAMAP/data.html

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 1990
Ending_Date: 2020

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL (SAFMC)
Publication_Date: 2003
Title:
FISHERY MANAGEMENT PLAN FOR THE DOLPHIN AND WAHOO FISHERY OF THE ATLANTIC

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: CHARLESTON, SC
Publisher: SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL

Online_Linkage: http://extwprlegs1.fao.org/docs/pdf/usa162621.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2003

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: SOUTH ATLANTIC FISHERY MANAGEMENT COUNCIL (SAFMC)
Publication_Date: 2020
Title: ECOSPECIES DATABASE
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: http://saecospecies.azurewebsites.net/

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
SOUTHEAST AREA MONITORING AND ASSESSMENT PROGRAM - SOUTH ATLANTIC (SEAMAP-SA)

Publication_Date: 2019
Title: SEAMAP-SA COASTAL SURVEY
Geospatial_Data_Presentation_Form: SPREADSHEET
Publication_Information:
Publication_Place: ARLINGTON, VA
Publisher: ATLANTIC STATES MARINE FISHERIES COMMISSION

Online_Linkage: http://www.seamap.org/datapage.html

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2009
Ending_Date: 2018

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ST. LUCIE COUNTY AND FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2019
Title: FISH SPECIES ON ST. LUCIE COUNTY ARTIFICIAL REEFS

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: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: FISH INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: Taylor, D. S.
Publication_Date: 2012
Title:
TWENTY-FOUR YEARS IN THE MUD: WHAT HAVE WE LEARNED ABOUT THE NATURAL HISTORY AND ECOLOGY OF THE MANGROVE RIVULUS, KRYPTOLEBIAS MARMORATUS?

Geospatial_Data_Presentation_Form: DOCUMENT
Other_Citation_Details: INTEGRATIVE AND COMPARATIVE BIOLOGY 52:724–736

Type_of_Source_Media: PAPER
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2012

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
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 interview with resource experts from NOAA Fisheries, NOAA Southeastern Fisheries Science Center (SEFSC), and Florida Fish and Wildlife Conservation Commission (FWC); 2) numerous published and unpublished reports; and 3) digital data and maps. Atlantic and shortnose sturgeon – Atlantic (FE, SE) and shortnose (FE, SE) sturgeon may both occur in the study area, in the St. Marys and St. Johns River systems. The St. Marys River is designated critical habitat for Atlantic sturgeon. Neither species is thought to reproduce in the St. Johns River; however, they may be found there, and also transiting through oceanic waters. Nassau grouper – Nassau grouper (FT, ST) were mapped based on information from NMFS (2013) that indicated that sporadic catches have occurred in the southern portion of the atlas area. Giant manta ray – Giant manta ray (FT, ST) were mapped based on sightings data provided by NOAA's Protected Resources Division. Atlantic Ocean fish – Oceanic areas were divided into regions by depth and geography, and species for the purpose of mapping offshore distributions of fish species, including reef fish and highly migratory species. Data on occurrence and abundance of reef fish were obtained from (1) NOAA's Southeast Florida Coral Reef Initiative (SEFCRI) sampling data for the years 2013-2019 and (2) the multi-agency Southeast Reef Fish Survey data from 1990-present. Species of interest were assigned to polygons representing general areas based on depth contours. Corresponding seasonality information was added based on the SAFMC Ecospecies database. Data on highly migratory species was included based on essential fish habitat designations for these species. Species and

corresponding life history stages were assigned to the ocean polygons which overlapped with their EFH descriptions. Nearshore and estuarine fish species – Fishery independent monitoring data were provided by FWC to map common estuarine and inshore species. Monthly and overall estimates of catch per unit effort (CPUE) and probability of capture from 2013 to 2017 were generated for each species by gear type by geographic zone. In areas with less comprehensive sampling, additional years of surveys were included back to 2009. Economically and ecologically important species were retained in the dataset if they occurred in more than 10% of the samples in a given zone across the entire dataset. Monthly presences were determined by whether a species was found to occur in greater than 10% of catches across gear types for a given geographic area. For the nearshore area out to 20 m depth, fish species distributions and seasonalities were created using data from the SEAMAP program Inner Strata Sampling Data of the ASMFC. Fishery-independent sampling for the Inner Strata Sampling program is conducted in roughly three months out of the year, April, July, and October; however, sampling in practice strays into many of the preceding and following months. Data used for the ESI included the years 2009-2018, and the frequencies of species caught were used to determine monthly presence/absence. Presence within a month was determined by the same 10% frequency cut-off as was used with FWC fishery independent sampling data. Sampling months were used proxies for the season within which sampling occurred. Thus, if a species was found to be present in April, it was assumed to be present in March and May; likewise, this was done for June and August (July), and September and November (October). Freshwater fish – Freshwater fish species were mapped based on survey data conducted by FWC. Surveys were targeted at community composition by use of electrofishing. Fish mapped primarily include recreationally targeted freshwater species.

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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. 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: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 38

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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 RARNUM. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. BIORES and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: FISH

Entity_Type_Definition:
The FISH table contains attribute information for the vector polygons in this data set representing fish distribution, concentration areas, and spawning 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: RARNUM
Attribute_Definition: An identifier that links directly to the BIORES 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: 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 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 vector objects in the biological data layers.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

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. The concentration field may either be blank or contain descriptive terms such as "HIGH".

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label: MAPPING_QUALIFIER
Attribute_Definition: An indication of why this feature was mapped in the ESI.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CALVING
Enumerated_Domain_Value_Definition: Calving
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: COLONY
Enumerated_Domain_Value_Definition: Colony
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: CONCENTRATION AREA
Enumerated_Domain_Value_Definition: Concentration Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: DENNING
Enumerated_Domain_Value_Definition: Denning
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: GENERAL DISTRIBUTION
Enumerated_Domain_Value_Definition: General Distribution
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HARVEST AREA
Enumerated_Domain_Value_Definition: Harvest Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAUL OUT
Enumerated_Domain_Value_Definition: Haul Out
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAZARD
Enumerated_Domain_Value_Definition: Hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HIGH ECOLOGICAL VALUE
Enumerated_Domain_Value_Definition: High Ecological Value
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MIGRATION
Enumerated_Domain_Value_Definition: Migration
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NESTING
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NURSERY AREA
Enumerated_Domain_Value_Definition: Nursery Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: PUPPING
Enumerated_Domain_Value_Definition: Pupping
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RAFTING
Enumerated_Domain_Value_Definition: Rafting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ROOSTING
Enumerated_Domain_Value_Definition: Roosting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPAWNING AREA
Enumerated_Domain_Value_Definition: Spawning Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: THERMAL REFUGE
Enumerated_Domain_Value_Definition: Thermal Refuge
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VULNERABLE OCCURRENCE
Enumerated_Domain_Value_Definition: Vulnerable Occurrence
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WINTERING
Enumerated_Domain_Value_Definition: Wintering
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: Insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alcid
Enumerated_Domain_Value_Definition: Alcid
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: algae
Enumerated_Domain_Value_Definition: Algae
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alligator
Enumerated_Domain_Value_Definition: Alligator
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: amphibian
Enumerated_Domain_Value_Definition: Amphibian
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: anadromous
Enumerated_Domain_Value_Definition: Anadromous fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: barnacle
Enumerated_Domain_Value_Definition: Barnacle
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: bat
Enumerated_Domain_Value_Definition: Bat
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: bird
Enumerated_Domain_Value_Definition: Bird
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: chordate
Enumerated_Domain_Value_Definition: Chordate
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: echinoderm
Enumerated_Domain_Value_Definition: Echinoderm
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: feline
Enumerated_Domain_Value_Definition: Feline
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: frog
Enumerated_Domain_Value_Definition: Frog
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gastropod
Enumerated_Domain_Value_Definition: Gastropod
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gull_tern
Enumerated_Domain_Value_Definition: Gull or tern
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: hardbottom
Enumerated_Domain_Value_Definition: Hardbottom
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: invert
Enumerated_Domain_Value_Definition: Invertebrate
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: kelp
Enumerated_Domain_Value_Definition: Kelp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: landfowl
Enumerated_Domain_Value_Definition: Landfowl
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lizard
Enumerated_Domain_Value_Definition: Lizard

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lobster
Enumerated_Domain_Value_Definition: Lobster
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_benthic
Enumerated_Domain_Value_Definition: Marine benthic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_pelagic
Enumerated_Domain_Value_Definition: Marine pelagic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_resident
Enumerated_Domain_Value_Definition: Marine resident 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: pinniped
Enumerated_Domain_Value_Definition: Pinniped
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: polar bear

Enumerated_Domain_Value_Definition: Plant
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: raptor
Enumerated_Domain_Value_Definition: Raptor
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reef
Enumerated_Domain_Value_Definition: Reef
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reptile
Enumerated_Domain_Value_Definition: Reptile
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: sea_otter
Enumerated_Domain_Value_Definition: Sea otter
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: shellfish
Enumerated_Domain_Value_Definition: Shellfish
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: softbottom
Enumerated_Domain_Value_Definition: Snake
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

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

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: wetland
Enumerated_Domain_Value_Definition: Wetland
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: whale
Enumerated_Domain_Value_Definition: Whale
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: worm
Enumerated_Domain_Value_Definition: Worm
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:

Attribute_Label: GRANK
Attribute_Definition: Global Rank of the species as defined by NatureServe
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NatureServe Global Conservation Status Ranks
Codeset_Source: NatureServe

Attribute:
Attribute_Label: GRANKDATE
Attribute_Definition: Date the GRANK was assessed
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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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: MON

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 "HERP" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for BENTHIC, 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 "HERP" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for BENTHIC, 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 "HERP" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for BENTHIC, 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 "HERP" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BENTHIC, 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 "HERP" then BREED5 = adults. This attribute is not used for BENTHIC, 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: 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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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: 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:

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City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:

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Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

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East Florida Environmental Sensitivity Index (ESI): HERP (Herpetofauna Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): HERP (Herpetofauna Polygons)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains sensitive biological resource data for sea turtles and estuarine and terrestrial herpetofauna in East Florida. Vector polygons in this data set represent herpetofauna distribution and sea turtle nesting areas. Species specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information

for three main components: shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2001

Ending_Date: 2020

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2001 to 2020 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Herpetofauna

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, maps, and digital data on herpetofauna distribution and sea turtle nesting areas. These data do not necessarily represent all herpetofauna occurrences in East Florida. 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; 21, Gopher tortoise, Gopherus polyphemus; 24, Eastern indigo snake, Drymarchon couperi; 30, Florida pinesnake, Pituophis melanoleucus mugitus; 260, Striped newt, Notophthalmus perstriatus.

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:
ALLEN FOLEY AND SIMONA CERIANI, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2019
Title: FLORIDA SEA TURTLE COASTAL DISTRIBUTIONS
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: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
BETH MONGIOVI, LUCIANO SOARES - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2019
Title: SEA TURTLE NESTING SEASONALITIES
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: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: CHRISTINE EASTWICK
Publication_Date: 2020
Title: BIOLOGICAL RESOURCES OF HOBE SOUND NATIONAL WILDLIFE REFUGE
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: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
Publication_Date: 2019
Title: FWC SEA TURTLE NEST DENSITY, 2014-2018
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2014
Ending_Date: 2018

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
Publication_Date: 2020
Title: AMERICAN ALLIGATOR (ALLIGATOR MISSISSIPPIENSIS)
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://myfwc.com/wildlifehabitats/profiles/reptiles/alligator/

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA NATURAL AREAS INVENTORY (FNAI)
Publication_Date: 2019
Title: FNAI ELEMENT OCCURRENCE POLYGON DATA LAYER
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: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA NATURAL AREAS INVENTORY (FNAI)
Publication_Date: 2020
Title:
FIELD GUIDE TO THE RARE PLANTS AND ANIMALS OF FLORIDA: DIAMONDBACK TERRAPIN

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FNAI

Online_Linkage: https://www.fnai.org/FieldGuide/pdf/Malaclemys_terrapin.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2020

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
Florida Natural Areas Inventory: Dan Hipes, Dale R. Jackson, Katy NeSmith, David Printiss and Karla Brandt

Publication_Date: 2001
Title: FIELD GUIDE TO THE RARE ANIMALS OF FLORIDA
Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FLORIDA NATURAL AREAS INVENTORY

Online_Linkage: https://www.fnai.org/FieldGuide/

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: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: KRISTEN KNEIFL, CANAVERAL NATIONAL SEASHORE
Publication_Date: 2020
Title: BIOLOGICAL RESOURCES OF CANAVERAL NATIONAL SEASHORE
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: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: ROBERT HARDY, SIMONA CERIANO, LUCIANO SOARES
Publication_Date: 2019
Title: SEA TURTLES OF 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: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
TRACI CASTELLON, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2016
Title: DIAMONDBACK TERRAPIN OBSERVATIONS
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: 2016

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HERP INFORMATION

Process_Step:
Process_Description:
Three main sources of data were used to depict herpetofauna distribution and seasonality for this data layer: 1) personal interviews with resource experts from Florida Fish and Wildlife Conservation Commission, 2) published and unpublished reports, and 3) digital data sets. Sea turtles – Green (FT, ST), hawksbill (FE, SE), Kemp's ridley (FE, SE), leatherback (FE, SE), and loggerhead (FT, ST) sea turtles were included in this atlas. Both nesting and in-water presence polygons are displayed. Florida's outer sand beaches are important nesting habitat for loggerhead, leatherback, and green sea turtles, and occasional nesting habitat for Kemp's ridley and hawksbill sea turtles. Nesting can occur during any of the months between March and November for the five species listed. Data that represent documented nesting from 2014 to 2018 were provided by FWC as part of their Statewide Nesting Beach Survey program. Vector polygonal data for nesting locations was transferred to 50 m shoreline buffers to standardize representation of beach nesting habitat. Concentrations of "LOW", "MED", and "HIGH" for beach nesting areas were taken from density classifications calculated by FWC for green, loggerhead, and leatherback sea turtles. Quartile break values at 25 and 75 percent of the observations were used to assign each species' density category, with low representing densities at or below the 25th quartile, medium being densities between the 25th and 75th quartiles, and high representing density values greater than the 75th. In-water sea turtle distributions were mapped using expert knowledge from FWC sea turtle biologists. Loggerhead and green sea turtles using migratory channels along Florida's coast are frequently found in water less than 3 m in depth and are more likely to be struck by ships or caught in nets. Diamondback terrapins – Due to concerns over poaching, occurrence points for diamondback terrapin were generalized to large areas covering habitat that terrapins are known to use. They were mapped in salt- and brackish-water marshes (ESI 10A polygons) as well as tidal channels, bays, and lagoons that were adjacent to marshes. Occurrence data came from two sources, a compilation database of terrapin surveys maintained by FWC and incidental catch data from fishery independent monitoring conducted by FWC. Depending on water temperatures, it is likely that terrapins are buried in the mud from December through February during brumation. Terrapins may nest on upland areas that border marshes along tidal channels, bays, and lagoons. Nesting in northern Florida occurs from April through June. Two subspecies of diamondback terrapin: the Carolina diamondback terrapin (Malaclemys terrapin centrata); and the Florida east coast terrapin (M. t. tequesta) occur within the atlas. Florida east coast terrapin is restricted to areas south of the St. Johns River, but the Carolina diamondback can be found throughout northern Florida's east coast. Other herpetofauna – FNAI data and expert knowledge from resource experts were used to map other federal and state threatened and endangered species, as well as rare species (see species list for details) of ecological importance.

The above digital and/or hardcopy sources were compiled by the project biologist to create the HERP 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the HERP data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital

data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 46

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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, HERP) is linked to the Biological Resources table (BIORES) using RARNUM. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. BIORES and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: HERP

Entity_Type_Definition:
The HERP table contains attribute information for the vector polygons in this data set representing herpetofauna distribution and sea turtle nesting areas. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: RARNUM
Attribute_Definition: An identifier that links directly to the BIORES 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: 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 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 vector objects in the biological data layers.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

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. The concentration field may either be blank or contain descriptive terms such as "HIGH".

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label: MAPPING_QUALIFIER
Attribute_Definition: An indication of why this feature was mapped in the ESI.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CALVING
Enumerated_Domain_Value_Definition: Calving
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: COLONY
Enumerated_Domain_Value_Definition: Colony
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CONCENTRATION AREA
Enumerated_Domain_Value_Definition: Concentration Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: DENNING
Enumerated_Domain_Value_Definition: Denning
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: GENERAL DISTRIBUTION
Enumerated_Domain_Value_Definition: General Distribution
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HARVEST AREA
Enumerated_Domain_Value_Definition: Harvest Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAUL OUT
Enumerated_Domain_Value_Definition: Haul Out
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAZARD
Enumerated_Domain_Value_Definition: Hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HIGH ECOLOGICAL VALUE
Enumerated_Domain_Value_Definition: High Ecological Value
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MIGRATION
Enumerated_Domain_Value_Definition: Migration
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NESTING
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NURSERY AREA
Enumerated_Domain_Value_Definition: Nursery Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: PUPPING
Enumerated_Domain_Value_Definition: Pupping
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RAFTING
Enumerated_Domain_Value_Definition: Rafting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ROOSTING
Enumerated_Domain_Value_Definition: Roosting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPAWNING AREA
Enumerated_Domain_Value_Definition: Spawning Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: THERMAL REFUGE
Enumerated_Domain_Value_Definition: Thermal Refuge
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VULNERABLE OCCURRENCE
Enumerated_Domain_Value_Definition: Vulnerable Occurrence

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WINTERING
Enumerated_Domain_Value_Definition: Wintering
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: Insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alcid
Enumerated_Domain_Value_Definition: Alcid
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: algae
Enumerated_Domain_Value_Definition: Algae
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alligator
Enumerated_Domain_Value_Definition: Alligator
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: amphibian
Enumerated_Domain_Value_Definition: Amphibian
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: anadromous
Enumerated_Domain_Value_Definition: Anadromous fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: barnacle
Enumerated_Domain_Value_Definition: Barnacle
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: bat
Enumerated_Domain_Value_Definition: Bat
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: bird
Enumerated_Domain_Value_Definition: Bird
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: chordate
Enumerated_Domain_Value_Definition: Chordate
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: echinoderm
Enumerated_Domain_Value_Definition: Echinoderm
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: feline
Enumerated_Domain_Value_Definition: Feline
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: frog
Enumerated_Domain_Value_Definition: Frog
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gastropod
Enumerated_Domain_Value_Definition: Gastropod
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gull_tern
Enumerated_Domain_Value_Definition: Gull or tern
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: hardbottom
Enumerated_Domain_Value_Definition: Hardbottom
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: insect
Enumerated_Domain_Value_Definition: Insect

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: invert
Enumerated_Domain_Value_Definition: Invertebrate
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: kelp
Enumerated_Domain_Value_Definition: Kelp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: landfowl
Enumerated_Domain_Value_Definition: Landfowl
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lizard
Enumerated_Domain_Value_Definition: Lizard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lobster
Enumerated_Domain_Value_Definition: Lobster
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_benthic
Enumerated_Domain_Value_Definition: Marine benthic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_pelagic
Enumerated_Domain_Value_Definition: Marine pelagic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_resident
Enumerated_Domain_Value_Definition: Marine resident 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: pinniped
Enumerated_Domain_Value_Definition: Pinniped
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: polar bear
Enumerated_Domain_Value_Definition: Plant
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: raptor
Enumerated_Domain_Value_Definition: Raptor
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reef
Enumerated_Domain_Value_Definition: Reef
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reptile
Enumerated_Domain_Value_Definition: Reptile
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: sea_otter
Enumerated_Domain_Value_Definition: Sea otter
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value: shellfish
Enumerated_Domain_Value_Definition: Shellfish
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: softbottom
Enumerated_Domain_Value_Definition: Snake
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

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

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

Attribute_Domain_Values:

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: wetland
Enumerated_Domain_Value_Definition: Wetland
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: whale
Enumerated_Domain_Value_Definition: Whale
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: worm
Enumerated_Domain_Value_Definition: Worm
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: GRANK
Attribute_Definition: Global Rank of the species as defined by NatureServe
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NatureServe Global Conservation Status Ranks
Codeset_Source: NatureServe

Attribute:
Attribute_Label: GRANKDATE
Attribute_Definition: Date the GRANK was assessed
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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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: MON

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 "HERP" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for BENTHIC, 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 "HERP" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for BENTHIC, 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 "HERP" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for BENTHIC, 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 "HERP" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BENTHIC, 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 "HERP" then BREED5 = adults. This attribute is not used for BENTHIC, 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: 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_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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: 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701
Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Wed Apr 08 10:10:58 2020

East Florida Environmental Sensitivity Index (ESI): HYDROL (Hydrography Lines)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): HYDROL (Hydrography Lines)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

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

properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2001
Ending_Date: 2017

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2001 to 2017 and are documented in the Lineage section.

Status:

Progress: Complete
Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment
Theme_Keyword: Hydrography

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:
These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:
Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the East Florida ESI data.

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:
This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by

Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:
The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:
These data represent linear hydrography for East Florida. See also the HYDROP data layer, part of the larger East Florida ESI database, for additional ESI 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: ESRI & STATE OF FLORIDA (DUVAL COUNTY)
Publication_Date: 2017
Title: ARCGIS BASEMAP WORLD IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

Publication_Date: 2016
Title: ARCGIS BASEMAP WORLD IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2013
Ending_Date: 2016

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) & FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date: 201610
Title: COOPERATIVE LAND COVER VERSION 3.2
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FLORIDA
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) & FLORIDA NATURAL AREAS INVENTORY (FNAI)

Online_Linkage: http://fnai.org/LandCover.cfm

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 200801
Ending_Date: 201610

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) - CHRISTI SANTI

Publication_Date: 201703
Title:
SALT MARSH AND MANGROVE POLYGONAL DATASETS (SALT_MARSH_FL_POLY.ZIP) & (MANGROVE_FL_POLY.ZIP)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

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

Publication_Date: 2013
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: SOUTH FLORIDA: ESIL (ENVIRONMENTAL SENSITIVITY INDEX SHORELINE TYPES - LINES)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)

Online_Linkage:
http://geodata.myfwc.com/datasets/2910418e885f4d69823021720e0156e3_24?page=5907

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:

Beginning_Date: 2003
Ending_Date: 2012

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

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

Publication_Date: 20060201
Title: SHORELINE POLYGON 1:12,000 SCALE FLORIDA 2004
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST. PETERSBURG, FLORIDA
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND WILDLIFE RESEARCH INSTITUTE) (FWC-FWRI)

Online_Linkage:
http://geodata.myfwc.com/datasets/eda0c60e98cd43af9422dc5ea54d8d56_0

Source_Scale_Denominator: 12000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20040101
Ending_Date: 20060201

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI) - LATOSHA THOMPSON

Publication_Date: 2017
Title: DRAFT SHORELINE UPDATED SHAPEFILE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:

Beginning_Date: 2015
Ending_Date: 2017

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: GOOGLE EARTH
Publication_Date: 2017
Title: GOOGLE EARTH IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED
Online_Linkage: http://google.com/earth

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL GEODETIC SURVEY (NGS)

Publication_Date: 20160727
Title: NOAA CONTINUALLY UPDATED SHORELINE PRODUCT (CUSP)
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: SILVER SPRING, MARYLAND
Publisher:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL GEODETIC SURVEY (NGS)

Online_Linkage: https://shoreline.noaa.gov/data/datasheets/cusp.html

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20011108
Ending_Date: 20160727

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

Source_Information:

Source_Citation:
Citation_Information:
Originator:
U.S. FISH AND WILDLIFE SERVICE (USFWS) NATIONAL WETLANDS INVENTORY (NWI)

Publication_Date: 20141016
Title: NATIONAL SPATIAL DATA INFRASTRUCTURE WETLANDS LAYER
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: WASHINGTON, D.C.
Publisher: U.S. FISH AND WILDLIFE SERVICE (USFWS)

Online_Linkage: http://www.fws.gov/wetlands/

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2014
Ending_Date: 2014

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROL INFORMATION

Process_Step:
Process_Description:
Original ESI shoreline and classifications were re-examined and fully updated using the sources and methods described below. The East Florida shoreline was derived from the integration of the National Oceanic and Atmospheric Administration (NOAA) Continually Updated Shoreline Product (CUSP, 2001-2016); the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FFWC-FWRI) shoreline (2004-2006 and 2015 update), and the 2012 South Florida shoreline update; marshes and mangroves data from FFWC (2017); land use/land cover (LULC) data provided by Florida Natural Areas Inventory (FNAI, 2008-2016); and the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) dataset (2014). The shoreline was updated as necessary by manual digitization at 1:4,000 from BING Bird's Eye and Aerial imagery (2009-2017), ESRI Basemap World Imagery (2013-2017), and Google Earth aerial imagery (2017). The most recent shoreline was utilized where available.

The above digital and/or hardcopy sources were compiled to create the HYDROL data layer. Depending on the type of source data, four general approaches are used for compiling the data layer: 1) hardcopy maps are digitized at their source scale; 2) digital data layers are evaluated and used "as is" or integrated with the other data sources; 3) overflight classifications are digitized from the scanned and registered hardcopy field maps; and/or 4) classifications are interpreted from oblique gps referenced photography or video taken during the overflights. After the initial shoreline classification, these data are edgematched and checked for logical consistency errors. Review maps are plotted at 1:24,000 scale for verification of polygonal and linear attributes. See the Lineage section for additional information on the type of source data for this data layer. The ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the HYDROL data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:

Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 31361

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, one relational attribute or data table, SOURCES, is used to store the source data information in the ESI data structure. The geographic data layer containing resource information (in this case, HYDROL) is linked to the SOURCES table using the SOURCE_ID. The entity-relationship diagram describes relationships between 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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: HYDROL

Entity_Type_Definition:
The HYDROL 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: 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 id 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: 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:

Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Wed Apr 08 10:11:08 2020

East Florida Environmental Sensitivity Index (ESI): HYDROP (Hydrography Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:

East Florida Environmental Sensitivity Index (ESI): HYDROP (Hydrography Polygons)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

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

properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:
The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2001
Ending_Date: 2017

Currentness_Reference:
The data were compiled during 2017-2020. The currentness dates for this data range from 2001 to 2017 and are documented in the Lineage section.

Status:
Progress: Complete
Maintenance_and_Update_Frequency:
A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:
Theme:
Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment
Theme_Keyword: Hydrography

Place:
Place_Keyword_Thesaurus: None

Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:
These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:
Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the East Florida ESI data.

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:
This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by

Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:
The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:
These data represent polygonal hydrography for East Florida. See also the HYDROL data layer, part of the larger East Florida ESI database, for additional ESI 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: ESRI & STATE OF FLORIDA (DUVAL COUNTY)
Publication_Date: 2017
Title: ARCGIS BASEMAP WORLD IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

Publication_Date: 2016
Title: ARCGIS BASEMAP WORLD IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2013
Ending_Date: 2016

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) & FLORIDA NATURAL AREAS INVENTORY (FNAI)

Publication_Date: 201610
Title: COOPERATIVE LAND COVER VERSION 3.2
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FLORIDA
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) & FLORIDA NATURAL AREAS INVENTORY (FNAI)

Online_Linkage: http://fnai.org/LandCover.cfm

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 200801
Ending_Date: 201610

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) - CHRISTI SANTI

Publication_Date: 201703
Title:
SALT MARSH AND MANGROVE POLYGONAL DATASETS (SALT_MARSH_FL_POLY.ZIP) & (MANGROVE_FL_POLY.ZIP)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

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

Publication_Date: 2013
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: SOUTH FLORIDA: ESIL (ENVIRONMENTAL SENSITIVITY INDEX SHORELINE TYPES - LINES)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)

Online_Linkage:
http://geodata.myfwc.com/datasets/2910418e885f4d69823021720e0156e3_24?page=5907

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:

Beginning_Date: 2003
Ending_Date: 2012

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

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

Publication_Date: 20060201
Title: SHORELINE POLYGON 1:12,000 SCALE FLORIDA 2004
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST. PETERSBURG, FLORIDA
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND WILDLIFE RESEARCH INSTITUTE) (FWC-FWRI)

Online_Linkage:
http://geodata.myfwc.com/datasets/eda0c60e98cd43af9422dc5ea54d8d56_0

Source_Scale_Denominator: 12000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20040101
Ending_Date: 20060201

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI) - LATOSHA THOMPSON

Publication_Date: 2017
Title: DRAFT SHORELINE UPDATED SHAPEFILE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC), FLORIDA WILDLIFE RESEARCH INSTITUTE (FWRI)

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:

Beginning_Date: 2015
Ending_Date: 2017

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: GOOGLE EARTH
Publication_Date: 2017
Title: GOOGLE EARTH IMAGERY
Geospatial_Data_Presentation_Form: REMOTE-SENSING IMAGE
Other_Citation_Details: UNPUBLISHED
Online_Linkage: http://google.com/earth

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2017
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL GEODETIC SURVEY (NGS)

Publication_Date: 20160727
Title: NOAA CONTINUALLY UPDATED SHORELINE PRODUCT (CUSP)
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: SILVER SPRING, MARYLAND
Publisher:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
NATIONAL GEODETIC SURVEY (NGS)

Online_Linkage: https://shoreline.noaa.gov/data/datasheets/cusp.html

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20011108
Ending_Date: 20160727

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

Source_Information:

Source_Citation:
Citation_Information:
Originator:
U.S. FISH AND WILDLIFE SERVICE (USFWS) NATIONAL WETLANDS INVENTORY (NWI)

Publication_Date: 20141016
Title: NATIONAL SPATIAL DATA INFRASTRUCTURE WETLANDS LAYER
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: WASHINGTON, D.C.
Publisher: U.S. FISH AND WILDLIFE SERVICE (USFWS)

Online_Linkage: http://www.fws.gov/wetlands/

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2014
Ending_Date: 2014

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: HYDROP INFORMATION

Process_Step:
Process_Description:
Original ESI shoreline and classifications were re-examined and fully updated using the sources and methods described below. The East Florida shoreline was derived from the integration of the National Oceanic and Atmospheric Administration (NOAA) Continually Updated Shoreline Product (CUSP, 2001-2016); the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FFWC-FWRI) shoreline (2004-2006 and 2015 update) and the 2012 South Florida shoreline update; marshes and mangroves data from FFWC (2017); land use/land cover (LULC) data provided by Florida Natural Areas Inventory (FNAI, 2008-2016); and the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) dataset (2014). The shoreline was updated as necessary by manual digitization at 1:4,000 from BING Bird's Eye and Aerial imagery (2009-2017), ESRI Basemap World Imagery (2013-2017), and Google Earth aerial imagery (2017). The most recent shoreline was utilized where available.

The above digital and/or hardcopy sources were compiled to create the HYDROP data layer. Depending on the type of source data, four general approaches are used for compiling the data layer: 1) hardcopy maps are digitized at their source scale; 2) digital data layers are evaluated and used "as is" or integrated with the other data sources; 3) overflight classifications are digitized from the scanned and registered hardcopy field maps; and/or 4) classifications are interpreted from oblique gps referenced photography or video taken during the overflights. After the initial shoreline classification, these data are edgematched and checked for logical consistency errors. Review maps are plotted at 1:24,000 scale for verification of polygonal and linear attributes. See the Lineage section for additional information on the type of source data for this data layer. The ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the HYDROP data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:

Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 28407

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, one relational attribute or data table, SOURCES, is used to store the source data information in the ESI data structure. The geographic data layer containing resource information (in this case, HYDROP) is linked to the SOURCES table using the SOURCE_ID. The entity-relationship diagram describes relationships between 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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: HYDROP

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

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:

Attribute_Label: WATER_CODE
Attribute_Definition: Specifies a polygon as either water or land.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: L
Enumerated_Domain_Value_Definition: Land
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: W
Enumerated_Domain_Value_Definition: Water
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: SOURCE_ID
Attribute_Definition:
Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:

Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Wed Apr 08 10:11:12 2020

East Florida Environmental Sensitivity Index (ESI): INVERT (Invertebrate Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:

East Florida Environmental Sensitivity Index (ESI): INVERT (Invertebrate Polygons)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

This data set contains sensitive biological resource data for marine and estuarine invertebrate species in East Florida. Vector polygons in this data set represent invertebrate distribution 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three

main components: shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2001

Ending_Date: 2019

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2001 to 2019 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Invertebrate

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, maps, and digital data on invertebrate distribution and spawning areas. These data do not necessarily represent all invertebrate occurrences in East Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 4, Pink shrimp, Farfantepenaeus duorarum; 43, Eastern oyster, Crassostrea virginica; 44, Horseshoe crab, Limulus polyphemus; 49, Blue crab, Callinectes sapidus; 51, Brown shrimp, Farfantepenaeus aztecus; 72, Caribbean spiny lobster, Panulirus argus; 100, Quahog, Mercenaria spp.; 102, Calico scallop, Argopecten gibbus; 109, Black Creek crayfish, Procambarus pictus.

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:
CLAIRE CROWLEY, FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2019
Title: HORSESHOE CRABS SPAWNING BEACHES
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: 2018
Ending_Date: 2019

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: CLAIRE CROWLEY, FWRI
Publication_Date: 2019
Title: BLUE CRAB DISTRIBUTION AND ABUNDANCE
Geospatial_Data_Presentation_Form: EXPERT KNOWLEDGE

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2017
Title: FISHERY INDEPENDENT MONITORING - INSHORE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:

Range_of_Dates/Times:
Beginning_Date: 2013
Ending_Date: 2017

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - FISH AND WILDLIFE RESEARCH INSTITUTE

Publication_Date: 2018
Title: OYSTER BEDS IN FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION, FWRI
Publication_Date: 2018
Title: CARIBBEAN SPINY LOBSTER, PANULIRUS ARGUS (LATRIELLE, 1804)
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage: https://myfwc.com/media/19251/caribbean-spiny-lobster-18.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA NATURAL AREAS INVENTORY (FNAI)
Publication_Date: 2019
Title: FNAI ELEMENT OCCURRENCE POLYGON DATA LAYER
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: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA NATURAL AREAS INVENTORY: DAN HIPES, DALE R. JACKSON, KATY NESMITH, DAVID PRINTISS AND KARLA BRANDT

Publication_Date: 2001
Title: FIELD GUIDE TO THE RARE ANIMALS OF FLORIDA
Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FLORIDA NATURAL AREAS INVENTORY

Online_Linkage: https://www.fnai.org/FieldGuide/

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: NONE
Source_Contribution: INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
STEVE GEIGER - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2019
Title: CALICO SCALLOP AND HARD CLAM
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: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: TOM MATTHEWS
Publication_Date: 2019
Title: DISTRIBUTION OF SPINY LOBSTER
Geospatial_Data_Presentation_Form: EXPERT KNOWLEDGE

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: INVERT INFORMATION

Process_Step:
Process_Description:
Three main sources of data were used to depict invertebrate distribution and seasonality for this data layer: 1) personal interviews with resource experts from the Florida Fish and Wildlife Conservation Commission (FWC) Fish and Wildlife Research Institute (FWRI); 2) numerous published and unpublished reports; and 3) digital datasets. Nearshore and estuarine species – A few main sources of data were used to depict invertebrate distribution and seasonality. These include interviews with resource experts from the Florida Fish and Wildlife Research Institute (FWRI), fishery-independent sampling data provided by FWC, and vector digital data on oyster reef locations provided by FWC. Pink and brown shrimp were mapped to bays and estuaries based on survey data from Florida's Inshore Saltwater Fisheries-Independent Monitoring Stratified-Random Sampling Records. Monthly and overall estimates of catch per unit effort (CPUE) and probability of capture from 2013 to 2017 were generated for both species by gear type by geographic zone. In areas with less comprehensive sampling, additional years of surveys were included back to 2009. Monthly presences were determined by whether a species was found to occur in greater than 10% of catches across gear types for a given geographic area. Blue crabs are relatively common throughout the study area and were mapped based on unpublished literature and expert opinion provided by Claire Crowley (FWRI). Spiny lobster was mapped based on expert opinion provided by Tom Matthews (FWRI). Calico scallop and hard clam distributions were mapped based on expert opinion provided by Steve Geiger (FWRI). Horseshoe crab spawning beaches were mapped using FWC survey data from 2018 and 2019. A polygonal buffer was drawn around ESI 3A shoreline on either side of each survey location. The maximum number of horseshoe crabs counted across the two survey years was reported for each spawning beach. Oyster reefs were mapped using digital data provided by FWC and represent a compilation of mapping efforts across the state. Reef polygons that were less than 125 m2 in size were removed from the ESI. Classes of oyster reef in the ESI include "Present" and "Potential", which represent live or restored oyster beds (Present), and dead oyster beds that could serve as future habitat (Potential). Oyster reefs mapped in the ESI are not the only reefs that could occur in coastal areas but represent the majority of reefs present. Black Creek crayfish (ST) was mapped using data from FNAI's Element Occurrence dataset.

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 ESI, biology, and human-use data are compiled

into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. 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: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 23

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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 RARNUM. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. BIORES and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: INVERT

Entity_Type_Definition:
The INVERT table contains attribute information for the vector polygons in this data set representing invertebrate distribution and spawning 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: RARNUM
Attribute_Definition: An identifier that links directly to the BIORES 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: 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 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 vector objects in the biological data layers.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

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. The concentration field may either be blank or contain descriptive terms such as "COMMON". For horseshoe crab spawning beaches, the concentration field contains counts of crabs observed during surveys.

Attribute_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label: MAPPING_QUALIFIER

Attribute_Definition: An indication of why this feature was mapped in the ESI.

Attribute_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CALVING

Enumerated_Domain_Value_Definition: Calving

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: COLONY

Enumerated_Domain_Value_Definition: Colony

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CONCENTRATION AREA

Enumerated_Domain_Value_Definition: Concentration Area

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: DENNING

Enumerated_Domain_Value_Definition: Denning

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: GENERAL DISTRIBUTION

Enumerated_Domain_Value_Definition: General Distribution

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: HARVEST AREA

Enumerated_Domain_Value_Definition: Harvest Area

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: HAUL OUT

Enumerated_Domain_Value_Definition: Haul Out

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAZARD
Enumerated_Domain_Value_Definition: Hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HIGH ECOLOGICAL VALUE
Enumerated_Domain_Value_Definition: High Ecological Value
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MIGRATION
Enumerated_Domain_Value_Definition: Migration
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NESTING
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NURSERY AREA
Enumerated_Domain_Value_Definition: Nursery Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: PUPPING
Enumerated_Domain_Value_Definition: Pupping
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RAFTING
Enumerated_Domain_Value_Definition: Rafting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ROOSTING
Enumerated_Domain_Value_Definition: Roosting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPAWNING AREA
Enumerated_Domain_Value_Definition: Spawning Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: THERMAL REFUGE
Enumerated_Domain_Value_Definition: Thermal Refuge

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VULNERABLE OCCURRENCE
Enumerated_Domain_Value_Definition: Vulnerable Occurrence
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WINTERING
Enumerated_Domain_Value_Definition: Wintering
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: Insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: alcid
Enumerated_Domain_Value_Definition: Alcid
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: algae
Enumerated_Domain_Value_Definition: Algae
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alligator
Enumerated_Domain_Value_Definition: Alligator
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: amphibian
Enumerated_Domain_Value_Definition: Amphibian
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: anadromous
Enumerated_Domain_Value_Definition: Anadromous fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: barnacle
Enumerated_Domain_Value_Definition: Barnacle
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: bat
Enumerated_Domain_Value_Definition: Bat
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: bird
Enumerated_Domain_Value_Definition: Bird
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: chordate
Enumerated_Domain_Value_Definition: Chordate
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: echinoderm
Enumerated_Domain_Value_Definition: Echinoderm
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: feline
Enumerated_Domain_Value_Definition: Feline
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: frog
Enumerated_Domain_Value_Definition: Frog
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gastropod
Enumerated_Domain_Value_Definition: Gastropod
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gull_tern
Enumerated_Domain_Value_Definition: Gull or tern
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: hardbottom
Enumerated_Domain_Value_Definition: Hardbottom

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: invert
Enumerated_Domain_Value_Definition: Invertebrate
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: kelp
Enumerated_Domain_Value_Definition: Kelp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: landfowl
Enumerated_Domain_Value_Definition: Landfowl
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lizard
Enumerated_Domain_Value_Definition: Lizard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lobster
Enumerated_Domain_Value_Definition: Lobster
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_benthic
Enumerated_Domain_Value_Definition: Marine benthic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_pelagic
Enumerated_Domain_Value_Definition: Marine pelagic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_resident
Enumerated_Domain_Value_Definition: Marine resident 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: pinniped
Enumerated_Domain_Value_Definition: Pinniped
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: polar bear
Enumerated_Domain_Value_Definition: Plant
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: raptor
Enumerated_Domain_Value_Definition: Raptor
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reef
Enumerated_Domain_Value_Definition: Reef
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reptile
Enumerated_Domain_Value_Definition: Reptile
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: sea_otter
Enumerated_Domain_Value_Definition: Sea otter
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: shellfish
Enumerated_Domain_Value_Definition: Shellfish
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: softbottom
Enumerated_Domain_Value_Definition: Snake
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

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

Attribute_Domain_Values:

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: wetland
Enumerated_Domain_Value_Definition: Wetland
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: whale
Enumerated_Domain_Value_Definition: Whale
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: worm
Enumerated_Domain_Value_Definition: Worm
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: GRANK
Attribute_Definition: Global Rank of the species as defined by NatureServe
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NatureServe Global Conservation Status Ranks
Codeset_Source: NatureServe

Attribute:
Attribute_Label: GRANKDATE
Attribute_Definition: Date the GRANK was assessed
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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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: MON

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 "HERP" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for BENTHIC, 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 "HERP" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for BENTHIC, 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 "HERP" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for BENTHIC, 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 "HERP" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BENTHIC, 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 "HERP" then BREED5 = adults. This attribute is not used for BENTHIC, 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: 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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003

Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute
Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701
Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com
Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Wed Apr 08 10:11:40 2020

East Florida Environmental Sensitivity Index (ESI): M_MAMMAL (Marine Mammal Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): M_MAMMAL (Marine Mammal Polygons)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains sensitive biological resource data for dolphins, whales, and manatees in East Florida. Vector polygons in this data set represent marine 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components:

shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2012

Ending_Date: 2020

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2012 to 2020 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Marine Mammal

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, maps, and digital data on marine mammal distribution. These data do not necessarily represent all marine mammal occurrences in East Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 10, West Indian manatee, Trichechus manatus; 11, Fin whale, Balaenoptera physalus; 12, Minke whale, Balaenoptera acutorostrata; 13, Humpback whale, Megaptera novaeangliae; 17, Bottlenose dolphin, Tursiops truncatus; 19, Short-finned pilot whale, Globicephala macrorhynchus; 21, Atlantic spotted dolphin, Stenella frontalis; 46, Risso's dolphin, Grampus griseus; 48, Sperm whale, Physeter macrocephalus; 49, Pantropical spotted dolphin, Stenella attenuata; 81, North Atlantic right whale, Eubalaena glacialis; 87, Rough-toothed dolphin, Steno bredanensis; 114, Kogia spp., Kogia spp.; 1007, Beaked whales, n/a.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional experts who estimate concentration areas. It is difficult to estimate the positional accuracy of such data, except to state that they are compiled on hardcopy base maps with a scale of 1:24,000. Some of the spatial components of the biological data sets are developed from

pre-existing digital or hardcopy sources and reflect the positional accuracy of these original data. Note that biological resource data by their very nature are considered "fuzzy", and this should be understood when considering the positional accuracy of vector digital objects representing these resources. See the Lineage and Process_Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2012
Title: MANATEE DISTRIBUTION SURVEYS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 1997
Ending_Date: 2012

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator: FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Publication_Date: 2019
Title:
MANATEE SYNOPTIC SURVEY DATA (2007, 2009, 2010, 2011, 2014, 2015, 2016, 2017, 2018, 2019)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: UNPUBLISHED
Online_Linkage:
http://geodata.myfwc.com/datasets/manatee-synoptic-survey-observation-locations

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2007
Ending_Date: 2019

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator: GERARD PINTO - JACKSONVILLE UNIVERSITY
Publication_Date: 2019

Title: MANATEE DISTRIBUTIONS
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: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: GERARD PINTO, JACKSONVILLE UNIVERSITY
Publication_Date: 2014
Title:
MANATEE DISTRIBUTIONAL SURVEY FOR DUVAL, CLAY, AND PORTIONS OF ST. JOHNS COUNTIES

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2002
Ending_Date: 2014

Source_Currentness_Reference: DATE OF SURVEY

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
HALPIN, P.N., A.J. READ, E. FUJIOKA, B.D. BEST, B. DONNELLY, L.J. HAZEN, C. KOT, K. URIAN, E. LABRECQUE, A. DIMATTEO, J. CLEARY, C. GOOD, L.B. CROWDER, AND K.D. HYRENBACH

Publication_Date: 2019
Title: OBIS-SEAMAP OBSERVATIONS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: RELATED
Online_Linkage: http://seamap.env.duke.edu/

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE

Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: LIZ STRATTON, GERRY PINTO, TIM GOWAN, LANCE GARRISON
Publication_Date: 2020
Title: MARINE MAMMALS OF 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: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: NOAA NATIONAL MARINE FISHERIES SERVICE
Publication_Date: 2016
Title: NORTH ATLANTIC RIGHT WHALE CRITICAL HABITAT
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Online_Linkage: https://www.fisheries.noaa.gov/region/southeast

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2016

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ROBERTS JJ, BEST BD, MANNOCCI L, FUJIOKA E, HALPIN PN, PALKA DL, GARRISON LP, MULLIN KD, COLE TVN, KHAN CB, MCLELLAN WM, PABST DA, LOCKHART GG

Publication_Date: 2015
Title:
DENSITY MODEL FOR ATLANTIC SPOTTED DOLPHIN (STENELLA FRONTALIS) FOR THE U.S. EAST COAST VERSION 7.3, 2015-09-03, AND SUPPLEMENTARY REPORT

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: DURHAM, NORTH CAROLINA
Publisher: MARINE GEOSPATIAL ECOLOGY LAB, DUKE UNIVERSITY

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2015

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ROBERTS JJ, BEST BD, MANNOCCI L, FUJIOKA E, HALPIN PN, PALKA DL, GARRISON LP, MULLIN KD, COLE TVN, KHAN CB, MCLELLAN WM, PABST DA, LOCKHART GG

Publication_Date: 2015
Title:
DENSITY MODEL FOR KOGIA WHALES (KOGIA SPP.) FOR THE U.S. EAST COAST VERSION 3.2, 2015-10-07, AND SUPPLEMENTARY REPORT

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: DURHAM, NORTH CAROLINA
Publisher: DUKE UNIVERSITY, MARINE GEOSPATIAL ECOLOGY LAB

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2015

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ROBERTS JJ, BEST BD, MANNOCCI L, FUJIOKA E, HALPIN PN, PALKA DL, GARRISON LP, MULLIN KD, COLE TVN, KHAN CB, MCLELLAN WM, PABST DA, LOCKHART GG

Publication_Date: 2015
Title:
DENSITY MODEL FOR PANTROPICAL SPOTTED DOLPHIN (STENELLA ATTENUATA) FOR THE U.S. EAST COAST VERSION 2.3, 2015-10-06, AND SUPPLEMENTARY REPORT

Geospatial_Data_Presentation_Form: 2015
Publication_Information:
Publication_Place: DURHAM, NORTH CAROLINA
Publisher: DUKE UNIVERSITY, MARINE GEOSPATIAL ECOLOGY LAB

Type_of_Source_Media: ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2015

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ROBERTS JJ, BEST BD, MANNOCCI L, FUJIOKA E, HALPIN PN, PALKA DL, GARRISON LP, MULLIN KD, COLE TVN, KHAN CB, MCLELLAN WM, PABST DA, LOCKHART GG

Publication_Date: 2015
Title:
DENSITY MODEL FOR ROUGH-TOOTHED DOLPHIN (STENO BREDANENSIS) FOR THE U.S. EAST COAST VERSION 1.2, 2015-09-26, AND SUPPLEMENTARY REPORT

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: DURHAM, NORTH CAROLINA
Publisher: DUKE UNIVERSITY, MARINE GEOSPATIAL ECOLOGY LAB

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2015

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ROBERTS JJ, BEST BD, MANNOCCI L, FUJIOKA E, HALPIN PN, PALKA DL, GARRISON LP, MULLIN KD, COLE TVN, KHAN CB, MCLELLAN WM, PABST DA, LOCKHART GG

Publication_Date: 2016
Title:
DENSITY MODEL FOR HUMPBACK WHALE (MEGAPTERA NOVAENGLIAE) FOR THE U.S. EAST COAST VERSION 9.4, 2016-04-21, AND SUPPLEMENTARY REPORT

Geospatial_Data_Presentation_Form: ATLAS
Publication_Information:
Publication_Place: DURHAM, NORTH CAROLINA
Publisher: DUKE UNIVERSITY, MARINE GEOSPATIAL ECOLOGY LAB

Type_of_Source_Media: ONLINE

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2016

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ROBERTS JJ, BEST BD, MANNOCCI L, FUJIOKA E, HALPIN PN, PALKA DL, GARRISON LP, MULLIN KD, COLE TVN, KHAN CB, MCLELLAN WM, PABST DA, LOCKHART GG

Publication_Date: 2016
Title:
DENSITY MODEL FOR MINKE WHALE (BALAENOPTERA ACUTOROSTRATA) FOR THE U.S. EAST COAST VERSION 8.4, 2016-04-21, AND SUPPLEMENTARY REPORT

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: DURHAM, NORTH CAROLINA
Publisher: DUKE UNIVERSITY, MARINE GEOSPATIAL ECOLOGY LAB

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2016

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ROBERTS JJ, BEST BD, MANNOCCI L, FUJIOKA E, HALPIN PN, PALKA DL, GARRISON LP, MULLIN KD, COLE TVN, KHAN CB, MCLELLAN WM, PABST DA, LOCKHART GG

Publication_Date: 2016
Title:
DENSITY MODEL FOR RISSO'S DOLPHIN (GRAMPUS GRISEUS) FOR THE U.S. EAST COAST VERSION 3.3, 2016-04-21, AND SUPPLEMENTARY REPORT

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: DURHAM, NORTH CAROLINA
Publisher: DUKE UNIVERSITY, MARINE GEOSPATIAL ECOLOGY LAB

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:

Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2016

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ROBERTS JJ, BEST BD, MANNOCCI L, FUJIOKA E, HALPIN PN, PALKA DL, GARRISON LP, MULLIN KD, COLE TVN, KHAN CB, MCLELLAN WM, PABST DA, LOCKHART GG

Publication_Date: 2016
Title:
DENSITY MODEL FOR SPERM WHALE (PHYSETER MACROCEPHALUS) FOR THE U.S. EAST COAST VERSION 6.4, 2016-04-21, AND SUPPLEMENTARY REPORT

Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: DURHAM, NORTH CAROLINA
Publisher: DUKE UNIVERSITY, MARINE GEOSPATIAL ECOLOGY LAB

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2016

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: TIM GOWAN, FLORIDA FISH AND WILDLIFE RESEARCH INSTITUTE (FWRI)
Publication_Date: 2019
Title:
LIFE HISTORY AND DISTRIBUTION OF NORTH ATLANTIC RIGHT WHALE AND HUMPBACK WHALE

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: 2019

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE

Source_Contribution: M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: VAN PARIJS, S. M., CURTICE, C., & FERGUSON, M. C. (EDS.)
Publication_Date: 2015
Title:
BIOLOGICALLY IMPORTANT AREAS FOR CETACEANS WITHIN U.S. WATERS (CETMAP_BIO_WGS84)

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details:
BIOLOGICALLY IMPORTANT AREAS FOR CETACEANS WITHIN U.S. WATERS. AQUATIC MAMMALS (SPECIAL ISSUE), 41(1), 1-128.

Online_Linkage: https://cetsound.noaa.gov/important

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2015

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: M_MAMMAL INFORMATION

Process_Step:
Process_Description:
Three main sources of data were used to depict marine mammal distribution and seasonality for this data layer: 1) personal interviews with resource experts from NOAA, Florida Fish and Wildlife Conservation Commission (FWC), and Jacksonville University; 2) numerous published and unpublished reports; and 3) digital data sets. North Atlantic right whale - The most sensitive cetacean mapped in this atlas is the North Atlantic right whale (FE, SE). The Eastern coast of Florida is an extremely important habitat for wintering and migrating right whales and is known calving habitat for this species. Right whales tend to avoid waters shallower than about 10 m and are not typically found in depths greater than 25 m. Digital data provided by FWC and federally designated critical habitat areas were used to map North Atlantic right whale. West Indian manatee - Digital data and expert knowledge provided by FWC and Jacksonville University were used to map the West Indian manatee (federally and state endangered). This species is frequently observed in the Intracoastal Waterway, but may be present throughout all inshore waters and within a mile of the shoreline during the spring, summer, and fall months. A number of cold weather thermal refuges were mapped based on FWC data and were cross-referenced with USFWS data and verified by FWC staff. Cold weather thermal refuges can contain large concentrations of manatees during cold weather events between the months of December and March. Humpback whale - Digital data and expert knowledge provided by FWC was used to map humpback whale. This species has more limited presence as compared with the North Atlantic right whale but has potential in all marine waters out to the shelf slope during the months of December to March. Other non-listed marine mammals - Mapped distributions of non-T/E marine mammals were based on habitat modeling predictions from the CetSound program (Roberts et al., 2016), and include observational data obtained from OBIS-SEAMAP.

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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. 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: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 18

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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 RARNUM. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. BIORES and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: M_MAMMAL

Entity_Type_Definition:
The M_MAMMAL table contains attribute information for the vector polygons in this data set representing marine mammal distribution. 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: RARNUM
Attribute_Definition: An identifier that links directly to the BIORES 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: 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 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 vector objects in the biological data layers.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

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. The concentration field may either be blank or contain descriptive terms such as "HIGH".

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label: MAPPING_QUALIFIER
Attribute_Definition: An indication of why this feature was mapped in the ESI.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CALVING
Enumerated_Domain_Value_Definition: Calving
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: COLONY
Enumerated_Domain_Value_Definition: Colony
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CONCENTRATION AREA
Enumerated_Domain_Value_Definition: Concentration Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: DENNING
Enumerated_Domain_Value_Definition: Denning
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: GENERAL DISTRIBUTION
Enumerated_Domain_Value_Definition: General Distribution
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HARVEST AREA
Enumerated_Domain_Value_Definition: Harvest Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAUL OUT
Enumerated_Domain_Value_Definition: Haul Out
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAZARD
Enumerated_Domain_Value_Definition: Hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HIGH ECOLOGICAL VALUE
Enumerated_Domain_Value_Definition: High Ecological Value
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MIGRATION
Enumerated_Domain_Value_Definition: Migration
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NESTING
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NURSERY AREA
Enumerated_Domain_Value_Definition: Nursery Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: PUPPING
Enumerated_Domain_Value_Definition: Pupping
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RAFTING
Enumerated_Domain_Value_Definition: Rafting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ROOSTING
Enumerated_Domain_Value_Definition: Roosting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPAWNING AREA
Enumerated_Domain_Value_Definition: Spawning Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: THERMAL REFUGE
Enumerated_Domain_Value_Definition: Thermal Refuge

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VULNERABLE OCCURRENCE
Enumerated_Domain_Value_Definition: Vulnerable Occurrence
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WINTERING
Enumerated_Domain_Value_Definition: Wintering
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: Insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: alcid
Enumerated_Domain_Value_Definition: Alcid
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: algae
Enumerated_Domain_Value_Definition: Algae
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alligator
Enumerated_Domain_Value_Definition: Alligator
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: amphibian
Enumerated_Domain_Value_Definition: Amphibian
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: anadromous
Enumerated_Domain_Value_Definition: Anadromous fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: barnacle
Enumerated_Domain_Value_Definition: Barnacle
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: bat
Enumerated_Domain_Value_Definition: Bat
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: bird
Enumerated_Domain_Value_Definition: Bird
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: chordate
Enumerated_Domain_Value_Definition: Chordate
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: echinoderm
Enumerated_Domain_Value_Definition: Echinoderm
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: feline
Enumerated_Domain_Value_Definition: Feline
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: frog
Enumerated_Domain_Value_Definition: Frog
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gastropod
Enumerated_Domain_Value_Definition: Gastropod
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gull_tern
Enumerated_Domain_Value_Definition: Gull or tern
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: hardbottom
Enumerated_Domain_Value_Definition: Hardbottom

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: invert
Enumerated_Domain_Value_Definition: Invertebrate
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: kelp
Enumerated_Domain_Value_Definition: Kelp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: landfowl
Enumerated_Domain_Value_Definition: Landfowl
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lizard
Enumerated_Domain_Value_Definition: Lizard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lobster
Enumerated_Domain_Value_Definition: Lobster
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_benthic
Enumerated_Domain_Value_Definition: Marine benthic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_pelagic
Enumerated_Domain_Value_Definition: Marine pelagic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_resident
Enumerated_Domain_Value_Definition: Marine resident 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: pinniped
Enumerated_Domain_Value_Definition: Pinniped
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: polar bear
Enumerated_Domain_Value_Definition: Plant
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: raptor
Enumerated_Domain_Value_Definition: Raptor
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reef
Enumerated_Domain_Value_Definition: Reef
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reptile
Enumerated_Domain_Value_Definition: Reptile
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: sea_otter
Enumerated_Domain_Value_Definition: Sea otter
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: shellfish
Enumerated_Domain_Value_Definition: Shellfish
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: softbottom
Enumerated_Domain_Value_Definition: Snake
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

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

Attribute_Domain_Values:

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: wetland
Enumerated_Domain_Value_Definition: Wetland
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: whale
Enumerated_Domain_Value_Definition: Whale
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: worm
Enumerated_Domain_Value_Definition: Worm
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: GRANK
Attribute_Definition: Global Rank of the species as defined by NatureServe
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NatureServe Global Conservation Status Ranks
Codeset_Source: NatureServe

Attribute:
Attribute_Label: GRANKDATE
Attribute_Definition: Date the GRANK was assessed
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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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: MON

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 "HERP" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for BENTHIC, 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 "HERP" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for BENTHIC, 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 "HERP" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for BENTHIC, 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 "HERP" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BENTHIC, 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 "HERP" then BREED5 = adults. This attribute is not used for BENTHIC, 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: 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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003

Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute
Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701
Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com
Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

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East Florida Environmental Sensitivity Index (ESI): MANAGED_POLY (Managed Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): MANAGED_POLY (Managed Polygons)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains human use resource data for National Estuarine Research Reserves (NERR), National Parks (NP), State Protected Areas (SPA), and Wildlife Refuges (WR) in East Florida. Vector polygons in this data set represent park or managed area features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include

information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2011

Ending_Date: 2019

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2011 to 2019 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Managed

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. These data do not necessarily represent all Managed polygons in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Publication_Date: 2011

Title: AQUATIC PRESERVES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Other_Citation_Details: GIS.LIBRARIAN@DEP.STATE.FL.US
Online_Linkage:
http://publicfiles.dep.state.fl.us/otis/gis/data/AQUATIC_PRESERVES.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: NONE
Source_Contribution: MANAGED_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FLORIDA NATURAL AREAS INVENTORY
Publication_Date: 2019
Title: FLORIDA CONSERVATION LANDS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FLORIDA NATURAL AREAS INVENTORY

Other_Citation_Details: npasco@fnai.fsu.edu
Online_Linkage: http://www.fnai.org

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2018
Ending_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: MANAGED_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2019
Title: FISH MANAGEMENT AREAS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: MANAGED_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2019
Title: WILDLIFE MANAGEMENT AREAS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: MANAGED_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: RYAN DRUYOR
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC FEATURES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: RYAN.DRUYOR@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: MANAGED_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: UNITED STATES NATIONAL PARK SERVICE
Publication_Date: 2019
Title: FLORIDA NATIONAL PARKS BOUNDARIES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: FORT COLLINS, CO
Publisher: NATIONAL PARK SERVICE

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: MANAGED_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: US FISH AND WILDLIFE SERVICE
Publication_Date: 2018
Title: NATIONAL WILDLIFE REFUGES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: FALLS CHURCH, VA
Publisher: US FISH AND WILDLIFE SERVICE

Other_Citation_Details: CDWG@FWS.GOV
Online_Linkage: https://www.fws.gov/gis/data/CadastralDB/index_cadastral.html

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: MANAGED_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
US FISH AND WILDLIFE SERVICE (USFWS), NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION- NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date: 2019
Title:

CRITICAL WILDLIFE HABITAT: SOUTHEAST US, SOUTH ATLANTIC, GULF OF MEXICO

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GIS.LIBRARIAN@DEP.STATE.FL.US
Online_Linkage: http://myfwc.com/research

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: MANAGED_POLY INFORMATION

Process_Step:
Process_Description:
The main sources of data used to depict human-use resources for the Managed Poly layer were: 1) data provided by the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI), 2) data provided by the U.S. Fish and Wildlife Service (USFWS) 3) data provided by NOAA NMFS, 4) data provided by the National Park Service (NPS), 5) data provided by the Florida Department of Environmental Protection (FDEP), and 6) data provided by the Florida Natural Areas Inventory (FNAI). The Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI) and FDEP provided data for State Protected Areas (SPA) that included aquatic preserves as well as wildlife and fishery management areas. The NPS provided boundaries for National Park (NP) classified lands including memorials, monuments, preserves, and seashores. Boundaries for the Guana - Tolomato - Matanzas National Estuarine Research Reserve (NERR) were provided by the USFWS and NOAA NMFS. A total of six wildlife refuges (WR) fall within the boundaries of this ESI. Those boundaries were provided by the USFWS. Management areas and parks were provided by FNAI.

The above digital and/or hardcopy sources were compiled by the project biologist to create the MANAGED_POLY 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the MANAGED_POLY data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 97

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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, MANAGED_POLY) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: MANAGED_POLY

Entity_Type_Definition:
The MANAGED_POLY table contains attribute information for the vector polygons representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data

structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data 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: MA
Enumerated_Domain_Value_Definition: Management Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Attribute:
Attribute_Label: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT

Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:

Attribute_Label: TYPE

Attribute_Definition:

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

Attribute_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: A

Enumerated_Domain_Value_Definition: Airport

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: A2

Enumerated_Domain_Value_Definition: Access

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: ACE

Enumerated_Domain_Value_Definition: Army Corps of Engineers

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: AN

Enumerated_Domain_Value_Definition: Anchorage

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: B

Enumerated_Domain_Value_Definition: Beach

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: BR

Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF
Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: MA
Enumerated_Domain_Value_Definition: Management Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or

consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute
Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701
Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com
Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Mon Jun 01 15:30:59 2020

East Florida Environmental Sensitivity Index (ESI): NAV_MARINE_POINT (Navigational or Marine Points)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): NAV_MARINE_POINT (Navigational or Marine Points)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains human use resource data for access points (A2), anchorages (AN), boat ramps (BR), dive sites (DV), marinas (M), ports (PT), and lock and dam facilities (LD) in East Florida. Vector points in this data set represent navigational/marine-recreational/maritime features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:
The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 1999
Ending_Date: 2019

Currentness_Reference:
The data were compiled during 2017-2020. The currentness dates for this data range from 1999 to 2019 and are documented in the Lineage section.

Status:
Progress: Complete
Maintenance_and_Update_Frequency:
A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:
Theme:
Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment
Theme_Keyword: Navigational or marine

Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:
These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:
Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the East Florida ESI data.

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:
This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and

federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. These data do not necessarily represent all Navigational or marine points in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 1999
Title: ANCHORAGES FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 1999

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: NAV_MARINE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2006
Title: BEACH ACCESS LOCATIONS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2006

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: NAV_MARINE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2019
Title: BOAT RAMPS FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: NAV_MARINE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2012
Title: ESI SOCIO-ECONOMIC POINT FEATURES - DIVING LOCATIONS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2012

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: NAV_MARINE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2016
Title: MARINAS FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2016

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: NAV_MARINE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2007
Title: PORTS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2007
Source_Currentness_Reference: DATE OF PUBLICATION
Source_Citation_Abbreviation: NONE
Source_Contribution: NAV_MARINE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: UNITED STATES ARMY CORPS OF ENGINEERS
Publication_Date: 2013
Title: LOCKS AND DAMS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: WASHINGTON, D.C.
Publisher: UNITED STATES ARMY CORPS OF ENGINEERS
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2013
Source_Currentness_Reference: DATE OF PUBLICATION
Source_Citation_Abbreviation: NONE
Source_Contribution: NAV_MARINE_POINT INFORMATION

Process_Step:
Process_Description:
Two main sources of data were used to depict human-use resources for the Nav Marine Point layer: 1) data provided by Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI), and 2) data provided by the U.S. Army Corps of Engineers (USACE). The following resources were provided by FWC-FWRI: Access (A2): Vehicular and/or foot beach access points, Anchorages (AN): Locations where commercial vessels can be anchored offshore, Boat Ramps (BR): Designated public boating access sites, Dive sites (DV): Recreational diving or snorkeling sites, Marinas (M): Point locations depicting public marinas, and Ports (PT): Major port location data. Data for lock and dam systems were provided by the USACE.

The above digital and/or hardcopy sources were compiled by the project biologist to create the

NAV_MARINE_POINT 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the NAV_MARINE_POINT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

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: 1147

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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, NAV_MARINE_POINT) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a

unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: NAV_MARINE_POINT

Entity_Type_Definition:
The NAV_MARINE_POINT table contains attribute information for the vector points representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data 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: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: DV
Enumerated_Domain_Value_Definition: Diving Site
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

Attribute:
Attribute_Label: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF
Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626

Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Wed Apr 08 10:12:30 2020

East Florida Environmental Sensitivity Index (ESI): POLITICAL_LINE (Political Lines)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): POLITICAL_LINE (Political Lines)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains human use resource data for state boundaries in East Florida. Vector lines in this data set represent political or jurisdictional management features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use

resources. See also the POLITICAL_POLY and POLITICAL_POINT data layers, part of the larger East Florida ESI database, for additional political/jurisdictional information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2010

Ending_Date: 2019

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2010 to 2019 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Political

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. See also the POLITICAL_POLY and POLITICAL_POINT data layers, part of the larger East Florida ESI database, for additional political/jurisdictional information. These data do not necessarily represent all Political lines in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2010
Title: FLORIDA STATE WATERS AND STATE LINE BOUNDARY
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2010

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: POLITICAL_LINE INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: RYAN DRUYOR
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC FEATURES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: RYAN.DRUYOR@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: POLITICAL_LINE INFORMATION

Process_Step:
Process_Description:
The Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI) provided Florida State line (ST) boundary data for the Political Line data layer.

The above digital and/or hardcopy sources were compiled by the project biologist to create the POLITICAL_LINE 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the POLITICAL_LINE data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 1

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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, POLITICAL_LINE) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: POLITICAL_LINE

Entity_Type_Definition:
The POLITICAL_LINE table contains attribute information for the vector lines representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data 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: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:

Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2

Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF
Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: MA
Enumerated_Domain_Value_Definition: Management Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701
Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Mon Jun 01 15:30:56 2020

East Florida Environmental Sensitivity Index (ESI): POLITICAL_POINT (Political Points)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): POLITICAL_POINT (Political Points)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains human use resource data for coast guard (CG) stations in East Florida. Vector points in this data set represent political or jurisdictional management features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological

resources, and human-use resources. See also the POLITICAL_POLY and POLITICAL_LINE data layers, part of the larger East Florida ESI database, for additional political/jurisdictional information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2019

Currentness_Reference:

The data were compiled during 2017-2020. The currentness date for this data is 2019 and is documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment
Theme_Keyword: Political

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. See also the POLITICAL_POLY and POLITICAL_LINE data layers, part of the larger East Florida ESI database, for additional political/jurisdictional information. These data do not necessarily represent all Political points in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: RYAN DRUYOR
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC FEATURES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: RYAN.DRUYOR@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: POLITICAL_POINT INFORMATION

Process_Step:
Process_Description:
The Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI) provided Coast Guard (CG) station data for the Political Point data layer.

The above digital and/or hardcopy sources were compiled by the project biologist to create the POLITICAL_POINT 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the POLITICAL_POINT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

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: 10

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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, POLITICAL_POINT) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: POLITICAL_POINT

Entity_Type_Definition:
The POLITICAL_POINT table contains attribute information for the vector points representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data 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: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF
Enumerated_Domain_Value_Definition: EPA Facility

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: MA
Enumerated_Domain_Value_Definition: Management Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: STG
Enumerated_Domain_Value_Definition: Staging
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_Domain_Values:
Enumerated_Domain:

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

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg

State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:

This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:

Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Mon Jun 01 15:30:55 2020

East Florida Environmental Sensitivity Index (ESI): POLITICAL_POLY (Political Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): POLITICAL_POLY (Political Polygons)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:
This data set contains human use resource data for Army Corps of Engineers permitting sections (ACE), coast guard sectors (CG), county boundaries (CO), EPA regions (EPA) and FEMA regions (FEMA) in East Florida. Vector polygons in this data set represent political or jurisdictional management features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their

sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the POLITICAL_LINE and POLITICAL_POINT data layers, part of the larger East Florida ESI database, for additional political/jurisdictional information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:
The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 1997
Ending_Date: 2019

Currentness_Reference:
The data were compiled during 2017-2020. The currentness dates for this data range from 1997 to 2019 and are documented in the Lineage section.

Status:
Progress: Complete
Maintenance_and_Update_Frequency:
A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:
Theme:
Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Political

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and

federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. See also the POLITICAL_LINE and POLITICAL_POINT data layers, part of the larger East Florida ESI database, for additional political/jurisdictional information. These data do not necessarily represent all Political polygons in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:
Citation_Information:
Originator: ENVIRONMENTAL PROTECTION AGENCY
Publication_Date: 2019
Title: ENVIRONMENTAL PROTECTION AGENCY REGIONS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: GEODATA.EPA.GOV
Publisher: ENVIRONMENTAL PROTECTION AGENCY
Other_Citation_Details: GEODATA.EPA.GOV
Online_Linkage:
https://geodata.epa.gov/arcgis/rest/services/OEI/EPA_Locations/MapServer/3
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019
Source_Currentness_Reference: DATE OF PUBLICATION
Source_Citation_Abbreviation: NONE
Source_Contribution: POLITICAL_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FEDERAL EMERGENCY MANAGEMENT AGENCY
Publication_Date: 2019
Title: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) REGIONS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Other_Citation_Details: CAROLEE.DOUGHTY@FEMA>GOV
Online_Linkage:
https://gis.fema.gov/arcgis/rest/services/FEMA/RegHQs/FeatureServer/2
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019
Source_Currentness_Reference: DATE OF PUBLICATION
Source_Citation_Abbreviation: NONE
Source_Contribution: POLITICAL_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 1997
Title: COUNTIES 1:24,000 SCALE POLYGON FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Other_Citation_Details: GISLIBRARIAN@MYFWC.COM

Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 1997

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: POLITICAL_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: RYAN DRUYOR
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC FEATURES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: RYAN.DRUYOR@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: POLITICAL_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: UNIVERSITY OF FLORIDA GEOPLAN CENTER
Publication_Date: 2014
Title: ARMY CORPS OF ENGINEERS PERMITTING SECTIONS IN FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: GAINESVILLE, FL
Publisher: UNIVERSITY OF FLORIDA GEOPLAN CENTER

Other_Citation_Details: DATA@FGDL.ORG
Online_Linkage:
http://www.saj.usace.army.mil/Missions/Regulatory/OfficeLocations.aspx

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2014

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: POLITICAL_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: USCG DISTRICTS OPERATIONS SYSTEMS CENTER
Publication_Date: 2010
Title: COAST GUARD SECTORS SOUTHEAST UNITED STATES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: KEARNEYSVILLE, WV
Publisher: COAST GUARD OPERATIONS SYSTEMS CENTER

Online_Linkage:
https://www.sciencebase.gov/catalog/item/get/4f4e49b0e4b07f02db5c915e

Source_Scale_Denominator: 24000
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: NONE
Source_Contribution: POLITICAL_POLY INFORMATION

Process_Step:
Process_Description:
Five main sources of data were used to depict human-use resources for the Political Poly layer: 1) data provided by the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI) 2) data provided by the University of Florida Geoplan Center, 3) data provided by the U.S. Coast Guard (USCG), 4) data provided by the U.S. Environmental Protection Agency (USEPA), and 5) data provided by the Federal Emergency Management Agency (FEMA). The Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI) provided county boundary (CO) data. Spatial data for the USACE (ACE) permitting sections were downloaded from the University of Florida Geoplan center. The USCG provided the USCG sector data (CG). Region IV boundaries for the EPA (EPA) and FEMA (FEMA) were provided by the parent organizations USEPA and FEMA, respectively.

The above digital and/or hardcopy sources were compiled by the project biologist to create the POLITICAL_POLY 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the POLITICAL_POLY data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:

Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 19

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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, POLITICAL_POLY) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: POLITICAL_POLY

Entity_Type_Definition:
The POLITICAL_POLY table contains attribute information for the vector polygons representing human-use, socioeconomic, or management features. Note that all attribute information is stored in

a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:

Attribute_Label: TYPE

Attribute_Definition:

The human-use features in the data 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: ACE

Enumerated_Domain_Value_Definition: Army Corps of Engineers

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CG

Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CO

Enumerated_Domain_Value_Definition: County Border

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: EPA

Enumerated_Domain_Value_Definition: EPA Regions

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: FEMA

Enumerated_Domain_Value_Definition: FEMA Region

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:

Attribute_Label: HUNUM

Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT

Entity_Type_Definition:

The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE

Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF
Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: MA
Enumerated_Domain_Value_Definition: Management Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and

SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:

Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute
Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701
Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com
Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Mon Jun 01 15:34:00 2020

East Florida Environmental Sensitivity Index (ESI): RESOURCE_POINT (Resource Points)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:

East Florida Environmental Sensitivity Index (ESI): RESOURCE_POINT (Resource Points)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

This data set contains human use resource data for aquaculture sites (AQ), artificial reefs (AR), recreational fishing locations (RF), repeated measurement sites (RMS), and water intakes (WI) in East Florida. Vector points in this data set represent resource management features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The

ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the RESOURCE_POLY data layer, part of the larger East Florida ESI database, for additional resource management information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2017
Ending_Date: 2020

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2017 to 2020 and are documented in the Lineage section.

Status:

Progress: Complete
Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment
Theme_Keyword: Resource

Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:
These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:
Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the East Florida ESI data.

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:
This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous

scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. See also the RESOURCE_POLY data layer, part of the larger East Florida ESI database, for additional resource management information. These data do not necessarily represent all Resource points in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES
Publication_Date: 2019
Title: AQUACULTURE DOCKS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES

Other_Citation_Details: JACQUELIN.HARRELL@FRESHFROMFLORIDA.COM
Online_Linkage: http://www.FreshFromFlorida.com

Type_of_Source_Media: EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC POINT FEATURES - AQUACULTURE FACILITIES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2017
Title: FISHING PIERS FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2017

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC POINT FEATURES - WATER INTAKES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2019
Title: ARTIFICIAL REEFS FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE

Source_Contribution: RESOURCE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: NATIONAL DATA BUOY CENTER
Publication_Date: 2017
Title: NDBC BUOY LOCATIONS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: STENNIS, MS
Publisher: NATIONAL DATA BUOY CENTER

Other_Citation_Details: WEBMASTER@NDBC@NOAA.GOV
Online_Linkage: http://www.ndbc.noaa.gov

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2017

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: RYAN DRUYOR
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC FEATURES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: RYAN.DRUYOR@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POINT INFORMATION

Process_Step:
Process_Description:
Two main sources of data were used to depict human-use resources for the Resource Point layer: 1) data provided by the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI) and 2) data provided by the NOAA National Data Buoy Center (NOAA NDBC). The following resources were provided by FWC-FWRI: Aquaculture (AQ): Locations of aquaculture sites that may be impacted by oiling, natural disaster or cleanup activity, Artificial Reef (AR) data, Recreational Fishing (RF): Point locations depicting public recreational

fishing access sites, and Water Intake (WI) locations. NOAA NDBC provided Repeated Measurement Sites (RMS) where oceanographic data is routinely recorded.

The above digital and/or hardcopy sources were compiled by the project biologist to create the RESOURCE_POINT 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the RESOURCE_POINT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

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: 883

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:

In addition to the geographic data layers, 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, RESOURCE_POINT) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: RESOURCE_POINT

Entity_Type_Definition:
The RESOURCE_POINT table contains attribute information for the vector points representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data 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: 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: RF
Enumerated_Domain_Value_Definition: Recreational Fishing
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
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: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF

Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: MA
Enumerated_Domain_Value_Definition: Management Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: STG
Enumerated_Domain_Value_Definition: Staging
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_Domain_Values:

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

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:

This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:

Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Mon Jun 01 15:31:00 2020

East Florida Environmental Sensitivity Index (ESI): RESOURCE_POLY (Resource Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): RESOURCE_POLY (Resource Polygons)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:
This data set contains human use resource data for critical habitats (CH) and essential habitats (EH) in East Florida. Vector polygons in this data set represent resource management features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological

resources, and human-use resources. See also the RESOURCE_POINT data layer, part of the larger East Florida ESI database, for additional resource management information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2005

Ending_Date: 2019

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2005 to 2019 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Resource

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. See also the RESOURCE_POINT data layer, part of the larger East Florida ESI database, for additional resource management information. These data do not necessarily represent all Resource polygons in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Publication_Date: 2005
Title: CORAL, CORAL REEF AND LIVE HARD BOTTOM EFH-HAPC
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GIS.LIBRARIAN@DEP.STATE.FL.US
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2005
Title: SHRIMP EFH-HAPC
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GIS.LIBRARIAN@DEP.STATE.FL.US
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2018
Title: CRITICAL WILDLIFE AREAS IN FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GIS.LIBRARIAN@DEP.STATE.FL.US
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: RYAN DRUYOR
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC FEATURES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: RYAN.DRUYOR@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POLY INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
US FISH AND WILDLIFE SERVICE (USFWS), NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION- NATIONAL MARINE FISHERIES SERVICE (NMFS)

Publication_Date: 2019
Title:
CRITICAL WILDLIFE HABITAT: SOUTHEAST US, SOUTH ATLANTIC, GULF OF MEXICO

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GIS.LIBRARIAN@DEP.STATE.FL.US
Online_Linkage: http://myfwc.com/research

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:

Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: RESOURCE_POLY INFORMATION

Process_Step:
Process_Description:
Two main sources of data were used to depict human-use resources for the Resource Poly layer: 1) data provided by the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI) and 2) data provided by the U.S. Fish and Wildlife Service (USFWS). (CH) - Designated Critical Habitat was mapped for Piping plover (Charadrius melodus), Elkhorn coral (Acropora palmata), Staghorn coral (Acropora cervicornis), Loggerhead sea turtle (Caretta caretta), North Atlantic Right Whale (Eubalaena glacialis), Johnson's seagrass (Halophila johnsonii), Snail kite (Rostrhamus sociabilis plumbeus), and the West Indian Manatee (Trichechus manatus). Data were provided by the United States Fish and Wildlife Service (USFWS) SE Regional Office. Critical wildlife areas in Florida were also included with this dataset and were provided by FWC-FWRI. (EH) - Coral, coral reef, live hard bottom, and shrimp Essential Fish Habitats and Habitat Areas of Particular Concern were provided by the Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI).

The above digital and/or hardcopy sources were compiled by the project biologist to create the RESOURCE_POLY 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the RESOURCE_POLY data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 21

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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, RESOURCE_POLY) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: RESOURCE_POLY

Entity_Type_Definition:
The RESOURCE_POLY table contains attribute information for the vector polygons representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data 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: CH
Enumerated_Domain_Value_Definition: Critical Habitat

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE

Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF
Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: MA
Enumerated_Domain_Value_Definition: Management Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: STG
Enumerated_Domain_Value_Definition: Staging
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_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: WR

Enumerated_Domain_Value_Definition: Wildlife Refuge

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:

Attribute_Label: 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: LINK

Attribute_Definition: Link to the resource web-page.

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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute
Contact_Address:

Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Mon Jun 01 15:31:02 2020

East Florida Environmental Sensitivity Index (ESI): SOCECON_LINE (Socioeconomic Lines)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): SOCECON_LINE (Socioeconomic Lines)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:
This data set contains human use resource data for bridges (R) and railways (RR) in East Florida. Vector lines in this data set represent socioeconomic features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See

also the SOCECON_POLY and SOCECON_POINT data layers, part of the larger East Florida ESI database, for additional socioeconomic information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2015

Ending_Date: 2019

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2015 to 2019 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Socioeconomic

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and

Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. See also the SOCECON_POLY and SOCECON_POINT data layers, part of the larger East Florida ESI database, for additional socioeconomic information. These data do not necessarily represent all Socioeconomic lines in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: FLORIDA DEPARTMENT OF TRANSPORTATION
Publication_Date: 2019
Title:
FLORIDA DEPARTMENT OF TRANSPORTATION ROADS CHARACTERISTICS INVENTORY - BRIDGES

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FLORIDA DEPARTMENT OF TRANSPORTATION

Other_Citation_Details: CO-TDAGIS@DOT.STATE.FL.US
Online_Linkage: http://www.fdot.gov/statistics/gis/default.shtm

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_LINE INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: RYAN DRUYOR
Publication_Date: 2019
Title: ESI SOCIO-ECONOMIC FEATURES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: RYAN.DRUYOR@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_LINE INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
US DEPARTMENT OF TRANSPORTATION - FEDERAL RAILWAY ADMINISTRATION

Publication_Date: 2015
Title: NATIONAL RAILWAY SYSTEM

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: WASHINGTON, D.C.
Publisher: NATIONAL TRANSPORTATION ATLAS DATABASES

Other_Citation_Details: ANSWERS@BTS.GOV

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2015

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_LINE INFORMATION

Process_Step:
Process_Description:
Two main sources of data were used to depict human-use resources for the Socecon Line data layer: 1) data provided by the Florida Department of Transportation (FDOT) and 2) data provided by the U.S. Department of Transportation Federal Railway Administration (USDOT FRA). The Florida Department of Transportation provided a dataset for bridges (R) and the USDOT FRA provided railway (RR) data.

The above digital and/or hardcopy sources were compiled by the project biologist to create the SOCECON_LINE 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the SOCECON_LINE data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 2853

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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_LINE) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: SOCECON_LINE

Entity_Type_Definition:
The SOCECON_LINE table contains attribute information for the vector lines representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data 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: R

Enumerated_Domain_Value_Definition: Road or Bridge
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF
Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: MA
Enumerated_Domain_Value_Definition: Management Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Mon Jun 01 15:30:53 2020

East Florida Environmental Sensitivity Index (ESI): SOCECON_POINT (Socioeconomic Points)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): SOCECON_POINT (Socioeconomic Points)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains human use resource data for airports/heliports (A/HP), recreational beaches (B), EPA Facilities (EPAF), Equipment storage locations (EQ), Historic Wrecks (HWR), and Staging areas (STG) in East Florida. Vector points in this data set represent socioeconomic features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The

ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the SOCECON_POLY and SOCECON_LINE data layers, part of the larger East Florida ESI database, for additional socioeconomic information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2000
Ending_Date: 2018

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2000 to 2018 and are documented in the Lineage section.

Status:

Progress: Complete
Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Socioeconomic

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:

These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:

DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:

Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:

This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and

federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. See also the SOCECON_POLY and SOCECON_LINE data layers, part of the larger East Florida ESI database, for additional socioeconomic information. These data do not necessarily represent all Socioeconomic points in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2000
Title: BEACH NAMES FLORIDA
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research
Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2000
Source_Currentness_Reference: DATE OF PUBLICATION
Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2001
Title: ESI RECREATIONAL BEACHES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research
Source_Scale_Denominator: 24000
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: NONE
Source_Contribution: SOCECON_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2016
Title: AIR FACILITIES
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:

Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2016

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2018
Title: OIL SPILL RESPONSE EQUIPMENT STAGING AREAS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE
Publication_Date: 2018
Title: OIL SPILL RESPONSE EQUIPMENT STORAGE LOCATIONS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: ST PETERSBURG, FL
Publisher: FWC - FISH AND WILDLIFE RESEARCH INSTITUTE

Other_Citation_Details: GISLIBRARIAN@MYFWC.COM
Online_Linkage: http://myfwc.com/research

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Publication_Date: 2018
Title:
SHIPWRECKS AND OBSTRUCTIONS COASTAL WATERS SOUTHEAST UNITED STATES

Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: SILVER SPRING, MD
Publisher: NATIONAL OCEANIC AND ATMOSPHEREIC ADMINISTRATION

Other_Citation_Details: HSD.INQUIRIES@NOAA.GOV

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_POINT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: U.S. ENVIRONMENTAL PROTECTION AGENCY
Publication_Date: 2018
Title: FACILITY RESPONSE PLANS
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: WASHINGTON, D.C.
Publisher: U.S. ENVIRONMENTAL PROTECTION AGENCY

Other_Citation_Details: FRS_SUPPORT@EPA.GOV

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2018

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_POINT INFORMATION

Process_Step:
Process_Description:

Three main sources of data were used to depict human use resources for the Socecon Point data layer: 1) data provided by Florida Fish and Wildlife Conservation Commission – Fish and Wildlife Research Institute (FWC – FWRI), 2) data provided by the U.S. Environmental Protection Agency (USEPA), and 3) and data provided by NOAA. The following resources were provided by FWC-FWRI: Airport/Heliports (A/HP): Locations of airports and heliports, Beaches (B): Locations of recreational beaches used for activities such as swimming, sun-bathing, and fishing, Equipment (EQ): Storage locations for oil-spill cleanup equipment, and Staging (STG): Oil spill response equipment staging areas. The USEPA provided Environmental Protection Agency (EPA) Facilities (EPAF) representing facilities required to file a Risk Management Plan (RMP) due to the presence of extremely hazardous substances that may result in a chemical accident. NOAA provided a Historic Wrecks (HWR) dataset depicting locations of abandoned or derelict vessels of historical significance.

The above digital and/or hardcopy sources were compiled by the project biologist to create the SOCECON_POINT 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the SOCECON_POINT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov

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: 608

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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_POINT) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: SOCECON_POINT

Entity_Type_Definition:
The SOCECON_POINT table contains attribute information for the vector points representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF

Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: STG
Enumerated_Domain_Value_Definition: Staging
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF
Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: STG

Enumerated_Domain_Value_Definition: Staging
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WR
Enumerated_Domain_Value_Definition: Wildlife Refuge
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:

Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com

Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Wed Apr 08 10:14:04 2020

East Florida Environmental Sensitivity Index (ESI): SOCECON_POLY (Socioeconomic Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:
Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003
Title:
East Florida Environmental Sensitivity Index (ESI): SOCECON_POLY (Socioeconomic Polygons)

Edition: Second
Geospatial_Data_Presentation_Form: vector digital data
Series_Information:
Series_Name: None
Issue_Identification: East Florida

Publication_Information:
Publication_Place: St. Petersburg, Florida
Publisher:
Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:
Abstract:

This data set contains human use resource data for sensitive archaeologial sites (AS) in East Florida. Vector polygons in this data set represent socioeconomic features. 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use

resources. See also the SOCECON_LINE and SOCECON_POINT data layers, part of the larger East Florida ESI database, for additional socioeconomic information. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2017

Currentness_Reference:

The data were compiled during 2017-2020. The currentness date for this data is 2017 and is documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765
East_Bounding_Coordinate: -76.59313
North_Bounding_Coordinate: 30.77805
South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category
Theme_Keyword: biota
Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: ESI
Theme_Keyword: Sensitivity maps
Theme_Keyword: Coastal resources
Theme_Keyword: Oil spill planning
Theme_Keyword: Coastal Zone Management
Theme_Keyword: G_WIS
Theme_Keyword: Wildlife
Theme_Keyword: Shoreline habitats
Theme_Keyword: Natural Resource Damage Assessment
Theme_Keyword: Socioeconomic

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:
These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:
Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the East Florida ESI data.

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:
This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by

Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on human use resources. See also the SOCECON_LINE and SOCECON_POINT data layers, part of the larger East Florida ESI database, for additional socioeconomic information. These data do not necessarily represent all Socioeconomic polygons in East Florida.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: FLORIDA DIVISION OF HISTORICAL RESOURCES

Publication_Date: 2017
Title: FLORIDA MASTER SITE FILE
Geospatial_Data_Presentation_Form: VECTOR DIGITAL DATA
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FLORIDA DIVISION OF HISTORICAL RESOURCES

Other_Citation_Details: FMSFILE@DOS.STATE.FL.US
Online_Linkage:
https://dos.myflorida.com/historical/preservation/master-site-file/

Source_Scale_Denominator: 24000
Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2017

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: SOCECON_POLY INFORMATION

Process_Step:
Process_Description:
The Florida Division of Historical Resources provided sensitive archaeological site (AS) data for the Socecon Poly data layer.

The above digital and/or hardcopy sources were compiled by the project biologist to create the SOCECON_POLY 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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. If necessary, edits to the SOCECON_POLY data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)
Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 1

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, 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_POLY) is linked to the Socioeconomic Resources table (SOC_DAT) using HUNUM. The HUNUM represents a unique combination of tabular and source information. SOC_DAT and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: SOCECON_POLY

Entity_Type_Definition:
The SOCECON_POLY table contains attribute information for the vector polygons representing human-use, socioeconomic, or management features. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data 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: AS
Enumerated_Domain_Value_Definition: Archaeological Site
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: HUNUM
Attribute_Definition: An identifier that links directly to the SOC_DAT 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: SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use/socioeconomic 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 vector objects in the human-use/socioeconomic data layers.

Attribute_Definition_Source: NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

Attribute:
Attribute_Label: ELEMENT
Attribute_Definition: Category of the human-use features.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POLITICAL
Enumerated_Domain_Value_Definition: Political/Jurisdictional management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MANAGED
Enumerated_Domain_Value_Definition: Parks/Managed areas
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RESOURCE
Enumerated_Domain_Value_Definition: Resource management
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAT_HAZARD
Enumerated_Domain_Value_Definition: Natural hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAV_MARINE
Enumerated_Domain_Value_Definition: Navigation/Marine - recreational/Maritime
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SOCECON
Enumerated_Domain_Value_Definition: Other socioeconomic features
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: TYPE
Attribute_Definition:
The human-use features in the data are those that could be impacted by an oil spill or could provide access for response operations.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A
Enumerated_Domain_Value_Definition: Airport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: A2
Enumerated_Domain_Value_Definition: Access
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ACE
Enumerated_Domain_Value_Definition: Army Corps of Engineers
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: AN
Enumerated_Domain_Value_Definition: Anchorage
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: B
Enumerated_Domain_Value_Definition: Beach
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: BR
Enumerated_Domain_Value_Definition: Boat Ramp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CG
Enumerated_Domain_Value_Definition: Coast Guard Station, District, or Sector
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CH
Enumerated_Domain_Value_Definition: Critical Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CO
Enumerated_Domain_Value_Definition: County Border
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: EH
Enumerated_Domain_Value_Definition: Essential Habitat
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPA
Enumerated_Domain_Value_Definition: EPA Regions
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EPAF

Enumerated_Domain_Value_Definition: EPA Facility
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: EQ
Enumerated_Domain_Value_Definition: Response Equipment
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: FEMA
Enumerated_Domain_Value_Definition: FEMA Region
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HP
Enumerated_Domain_Value_Definition: Heliport
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HWR
Enumerated_Domain_Value_Definition: Historic Wreck
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: LD
Enumerated_Domain_Value_Definition: Lock and Dam
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: NERR
Enumerated_Domain_Value_Definition: National Estuarine Research Reserve
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: PT
Enumerated_Domain_Value_Definition: Port
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value: R
Enumerated_Domain_Value_Definition: Road or Bridge
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: RMS
Enumerated_Domain_Value_Definition: Repeated Measurement Site/Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RR
Enumerated_Domain_Value_Definition: Rail Route
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPA
Enumerated_Domain_Value_Definition: State Protected Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ST
Enumerated_Domain_Value_Definition: State
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

Attribute:
Attribute_Label: 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: LINK
Attribute_Definition: Link to the resource web-page.
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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast

City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 896-8626
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.gov
Hours_of_Service: 8:00 a.m.-5:00 p.m. Eastern time

Resource_Description: Downloadable Data
Distribution_Liability:
This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor

represent it to anyone as other than a Florida Fish and Wildlife Conservation Commission produced data set; it is provided 'as-is' without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Florida Fish and Wildlife Conservation Commission be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Custom_Order_Process:
Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Metadata_Reference_Information:
Metadata_Date: 202003
Metadata_Review_Date: 202003
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: GISLibrarian
Contact_Organization:
Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute
Contact_Position: GIS Data Librarian
Contact_Address:
Address_Type: mailing and physical address
Address:
Fish and Wildlife Research Institute 100 Eighth Avenue Southeast
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701
Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.com
Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998

Generated by mp version 2.9.44 on Wed Apr 08 10:14:20 2020

East Florida Environmental Sensitivity Index (ESI): T_MAMMAL (Terrestrial Mammal Polygons)

Metadata also available as - [Parseable text] - [SGML] - [XML]

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:

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute and Research Planning, Inc.

Publication_Date: 202003

Title:

East Florida Environmental Sensitivity Index (ESI): T_MAMMAL (Terrestrial Mammal Polygons)

Edition: Second

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: None

Issue_Identification: East Florida

Publication_Information:

Publication_Place: St. Petersburg, Florida

Publisher:

Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC)

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWCC), St. Petersburg, Florida

Online_Linkage: http://myfwc.com/research/gis/

Description:

Abstract:

This data set contains sensitive biological resource data for beach mice and fox squirrels in East Florida. Vector polygons in this data set represent 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 Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline

habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as 'Sensitivity of Coastal Habitats and Wildlife to Spilled Oil' Atlases. The term 'ESI' is often used in reference to the whole dataset, but the term 'ESI' is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates for the East Florida ESI area of interest, with the exception of Human Use data, in 2019. These datasets were delivered as feature classes in overlapping-polygon format following the NOAA ESI Data Standard. The East Florida ESI data format is consistent with the previously delivered ESI data.

Purpose:

The ESI data provide sensitive areas data for oil spill planning and response and other environmental management and natural resource purposes. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive areas. These data also support other related state and federal regulatory requirements for oil spill prevention, planning, response, and restoration.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2001

Ending_Date: 2020

Currentness_Reference:

The data were compiled during 2017-2020. The currentness dates for this data range from 2001 to 2020 and are documented in the Lineage section.

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

A 5-year update cycle is planned with some maintenance and field verification likely on an annual basis

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -81.91765

East_Bounding_Coordinate: -76.59313

North_Bounding_Coordinate: 30.77805

South_Bounding_Coordinate: 26.36432

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme_Keyword: environment

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: ESI

Theme_Keyword: Sensitivity maps

Theme_Keyword: Coastal resources

Theme_Keyword: Oil spill planning

Theme_Keyword: Coastal Zone Management

Theme_Keyword: G_WIS

Theme_Keyword: Wildlife

Theme_Keyword: Shoreline habitats

Theme_Keyword: Natural Resource Damage Assessment

Theme_Keyword: Terrestrial Mammal

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Coastal Florida
Place_Keyword: Southwest Florida

Access_Constraints:
These data are unrestricted. Where possible, always acquire this dataset directly from FWC as other sources may have altered the original data.

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Management boundaries are not to be considered legal boundaries. Edges may have been altered for cartographic processes. 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. The ESI databases were developed to provide summary information on sensitive natural and human-use resources for the purposes of oil spill planning, environmental planning, and natural resource management. Although the ESI data should be a valuable planning and resource management tool, they should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, these data cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Also, these data and any related map products should not be used for navigation. Recognize that the information contained in the ESI databases 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, archaeological sites, etc. For more information or guidance on proper and improper uses of these data, please contact the Fish and Wildlife Research Institute (FWRI) and Research Planning, Inc. Acknowledgement of the publishers, contributors, and sources listed in the Data_Set_Credit (below) and Lineage section of this document would be appreciated in products derived from or utilizing these data. Users are encouraged to read and fully comprehend the metadata record prior to using these data. Please acknowledge the Florida Fish and Wildlife Conservation Commission (FWC) as the data source for any products developed from these data. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation. Besides the above warnings, there are no use constraints on these data.

Browse_Graphic:
Browse_Graphic_File_Name: datafig.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the East Florida ESI data.

Browse_Graphic_File_Type: JPEG

Data_Set_Credit:
This project was supported by the Florida Wildlife Research Institute (FWRI), Florida Fish and Wildlife Conservation Commission (FWC). Timyn Rice with FWRI served as contract and technical manager for the project. Timyn Rice, Christi Santi, Ryan Druyor, Latosha Thompson, Chris Boland, Ryan Druyor and other FWRI staff contributed significantly to the project, as did many other individuals from several state and federal agencies and other organizations. At Research Planning, Inc. in Columbia, South Carolina, numerous scientific and staff were involved with different phases of the project. Mark White, GIS Director, and Christine Boring, Biology Dept. Manager, were co-Project Managers. The ESI shoreline was classified by

Jennifer Horsman, Lee Diveley, and Katy Beckham. The biological data were collected and compiled by Christine Boring, Lauren Szathmary, Jennifer Weaver, and Lincoln Smith. Katy Beckham, Lee Diveley, Jeff Dahlin, and Chris Locke produced the GIS data and final metadata documents.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ArcGIS for Desktop 10.7.1(R) and SQL SERVER(R) (version 2019). The hardware configuration is PC's with Windows Operating System 10. The following Geodatabase Feature Classes are included in the data set: aoi, benthic, birds, birdspt, esil, esip, fish, herp, hydrol, hydrop, invert, m_mammal, managed_poly, nav_marine_point, political_line, political_point, political_poly, resource_point, resource_poly, socecon_line, socecon_point, socecon_poly, and t_mammal. Associated relational and desktop data tables are biores, breed, seasonal, soc_dat, sources, species, and status.

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, 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. The attribute accuracy is estimated to be 'good' given the years of ESI experience, the data input methodology, the quality control review sessions, and the digital logical consistency checks.

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, and SQL SERVER(R) to ArcGIS(R) consistencies. A final review is made by the ESI manager, where the data are written to CD-ROM and the metadata are written. RARNUM's are defined on an element basis, so 'resources at risk' groupings will contain only a single element.

Completeness_Report:

These data represent a synthesis of expert knowledge and digital data on terrestrial mammal distribution. These data do not necessarily represent all terrestrial mammal occurrences in East Florida. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 68, Anastasia Island beach mouse, Peromyscus polionotus phasma; 78, Southeastern beach mouse, Peromyscus polionotus niveiventris; 230, Sherman's fox squirrel, Sciurus niger shermani.

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: 2019
Title: FNAI ELEMENT OCCURRENCE POLYGON DATA LAYER
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: 2019

Source_Currentness_Reference: DATE OF ACCESS

Source_Citation_Abbreviation: NONE
Source_Contribution: T_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FLORIDA NATURAL AREAS INVENTORY: DAN HIPES, DALE R. JACKSON, KATY NESMITH, DAVID PRINTISS AND KARLA BRANDT

Publication_Date: 2001
Title: FIELD GUIDE TO THE RARE ANIMALS OF FLORIDA
Geospatial_Data_Presentation_Form: DOCUMENT
Publication_Information:
Publication_Place: TALLAHASSEE, FL
Publisher: FLORIDA NATURAL AREAS INVENTORY

Online_Linkage: https://www.fnai.org/FieldGuide/

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: NONE
Source_Contribution: T_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
TERRY DOONAN - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Publication_Date: 2020
Title: FLORIDA BEACH MICE
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: 2020

Source_Currentness_Reference: DATE OF COMMUNICATION

Source_Citation_Abbreviation: NONE
Source_Contribution: T_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator: UNITED STATES FISH AND WILDLIFE SERVICE
Publication_Date: 2005
Title: ANASTASIA ISLAND BEACH MOUSE AND SOUTHEASTERN BEACH MOUSE
Geospatial_Data_Presentation_Form: DOCUMENT
Online_Linkage:
https://www.fws.gov/northflorida/Species-Accounts/PDFVersions/Beach-Mice-2005.pdf

Type_of_Source_Media: ONLINE
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005

Source_Currentness_Reference: DATE OF PUBLICATION

Source_Citation_Abbreviation: NONE
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 Florida Fish and Wildlife Conservation Commission (FWC) and 2) a digital data set. The following terrestrial mammals were included in this atlas: Anastasia Island beach mouse (FE, SE), southeastern beach mouse (FT, ST), and Sherman's fox squirrel. Beach mice were mapped using expert knowledge from resource experts, and beach mice and Sherman's fox squirrel occurrences from the FNAI element occurrence dataset were included.

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 ESI, biology, and human-use data are compiled into the standard ESI digital data format. A second set of interviews with participating resource experts are conducted to review the compiled data. 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: 202003
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Florida Wildlife Research Institute (FWRI)

Contact_Person: GISLibrarian

Contact_Address:
Address_Type: Physical address
Address: 100 Eighth Avenue, S.E.
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701

Contact_Voice_Telephone: (727) 896-8626
Contact_Facsimile_Telephone: (727) 893-1679
Contact_Electronic_Mail_Address: GISLibrarian@MyFWC.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: 5

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 0.000000001
Longitude_Resolution: 0.000000001
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

Entity_and_Attribute_Information:
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 RARNUM. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. BIORES and the other relational data tables are described below 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.

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).

Detailed_Description:
Entity_Type:
Entity_Type_Label: T_MAMMAL

Entity_Type_Definition:
The T_MAMMAL table contains attribute information for the vector polygons in this data set

representing terrestrial mammal distribution. 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: RARNUM
Attribute_Definition: An identifier that links directly to the BIORES 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: 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 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 vector objects in the biological data layers.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 1
Range_Domain_Maximum: N

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 was available, so the field is blank.

Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:

Unrepresentable_Domain: Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label: MAPPING_QUALIFIER
Attribute_Definition: An indication of why this feature was mapped in the ESI.
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CALVING
Enumerated_Domain_Value_Definition: Calving
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: COLONY
Enumerated_Domain_Value_Definition: Colony
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CONCENTRATION AREA
Enumerated_Domain_Value_Definition: Concentration Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: DENNING
Enumerated_Domain_Value_Definition: Denning
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: GENERAL DISTRIBUTION
Enumerated_Domain_Value_Definition: General Distribution
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HARVEST AREA
Enumerated_Domain_Value_Definition: Harvest Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAUL OUT
Enumerated_Domain_Value_Definition: Haul Out
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HAZARD
Enumerated_Domain_Value_Definition: Hazard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: HIGH ECOLOGICAL VALUE
Enumerated_Domain_Value_Definition: High Ecological Value
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: MIGRATION
Enumerated_Domain_Value_Definition: Migration
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NESTING
Enumerated_Domain_Value_Definition: Nesting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NURSERY AREA
Enumerated_Domain_Value_Definition: Nursery Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: PUPPING
Enumerated_Domain_Value_Definition: Pupping
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: RAFTING
Enumerated_Domain_Value_Definition: Rafting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: ROOSTING
Enumerated_Domain_Value_Definition: Roosting
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SPAWNING AREA
Enumerated_Domain_Value_Definition: Spawning Area
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: THERMAL REFUGE
Enumerated_Domain_Value_Definition: Thermal Refuge
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VULNERABLE OCCURRENCE
Enumerated_Domain_Value_Definition: Vulnerable Occurrence
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: WINTERING
Enumerated_Domain_Value_Definition: Wintering

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: BENTHIC

Enumerated_Domain_Value_Definition: Benthic

Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: Insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alcid
Enumerated_Domain_Value_Definition: Alcid
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: algae
Enumerated_Domain_Value_Definition: Algae
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: alligator
Enumerated_Domain_Value_Definition: Alligator
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: amphibian
Enumerated_Domain_Value_Definition: Amphibian
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: anadromous
Enumerated_Domain_Value_Definition: Anadromous fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: barnacle
Enumerated_Domain_Value_Definition: Barnacle
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: bat
Enumerated_Domain_Value_Definition: Bat
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: bird
Enumerated_Domain_Value_Definition: Bird
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: chordate
Enumerated_Domain_Value_Definition: Chordate
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: echinoderm
Enumerated_Domain_Value_Definition: Echinoderm

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: feline
Enumerated_Domain_Value_Definition: Feline
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: frog
Enumerated_Domain_Value_Definition: Frog
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gastropod
Enumerated_Domain_Value_Definition: Gastropod
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: gull_tern
Enumerated_Domain_Value_Definition: Gull or tern
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: hardbottom
Enumerated_Domain_Value_Definition: Hardbottom
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: insect
Enumerated_Domain_Value_Definition: Insect
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: invert

Enumerated_Domain_Value_Definition: Invertebrate
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: kelp
Enumerated_Domain_Value_Definition: Kelp
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: landfowl
Enumerated_Domain_Value_Definition: Landfowl
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lizard
Enumerated_Domain_Value_Definition: Lizard
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: lobster
Enumerated_Domain_Value_Definition: Lobster
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_benthic
Enumerated_Domain_Value_Definition: Marine benthic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_pelagic
Enumerated_Domain_Value_Definition: Marine pelagic fish
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: m_resident
Enumerated_Domain_Value_Definition: Marine resident 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: pinniped
Enumerated_Domain_Value_Definition: Pinniped
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: polar bear
Enumerated_Domain_Value_Definition: Plant
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: raptor
Enumerated_Domain_Value_Definition: Raptor
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reef
Enumerated_Domain_Value_Definition: Reef
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: reptile
Enumerated_Domain_Value_Definition: Reptile
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: sea_otter
Enumerated_Domain_Value_Definition: Sea otter
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: shellfish
Enumerated_Domain_Value_Definition: Shellfish
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: softbottom
Enumerated_Domain_Value_Definition: Snake
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

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

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

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

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: wetland
Enumerated_Domain_Value_Definition: Wetland
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: whale
Enumerated_Domain_Value_Definition: Whale
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: worm
Enumerated_Domain_Value_Definition: Worm
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute:
Attribute_Label: GRANK
Attribute_Definition: Global Rank of the species as defined by NatureServe
Attribute_Definition_Source: NOAA ESI Guidelines
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: NatureServe Global Conservation Status Ranks
Codeset_Source: NatureServe

Attribute:
Attribute_Label: GRANKDATE
Attribute_Definition: Date the GRANK was assessed
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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP) 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: BENTHIC

Enumerated_Domain_Value_Definition: Benthic

Enumerated_Domain_Value_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: HERP

Enumerated_Domain_Value_Definition: Reptiles and Amphibians

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: 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 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 (or ‘X’ in the case of BENTHIC and ‘R’ in the case of HERP), 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 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP), 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: MON
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 "HERP" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for BENTHIC, 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 "HERP" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for BENTHIC, 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 "HERP" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for BENTHIC, 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 "HERP" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BENTHIC, 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 "HERP" then BREED5 = adults. This attribute is not used for BENTHIC, 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: BENTHIC
Enumerated_Domain_Value_Definition: Benthic
Enumerated_Domain_Value_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: HERP
Enumerated_Domain_Value_Definition: Reptiles and Amphibians
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: 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: 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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance

Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: S
Enumerated_Domain_Value_Definition: Threatened or endangered due to similarity of appearance
Enumerated_Domain_Value_Definition_Source: NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: X
Enumerated_Domain_Value_Definition: Experimental essential population
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: 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 (or 'X' in the case of BENTHIC and 'R' in the case of HERP) 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; and SOURCE_ID and ESI_Source in the ESI and HYDRO data layers.

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.

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