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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: HYDRO (Hydrography Lines and Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains vector lines and polygons representing coastal hydrography used in the creation of the Environmental Sensitivity Index (ESI) for Mississippi. The Hydro data layer contains all annotation used in producing the atlas. The annotation features are categorized into three subclasses in order to simplify the mapping and quality control procedures: GEOG for geographic features, SOC for socioeconomic features, and HYDRO for water features. This data set comprises a portion of the ESI data for Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

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

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:
1986

Ending_Date:
2008

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness dates for this data range from 1986 to 2008 and are documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:

-88.37500
North_Bounding_Coordinate:
30.50000
South_Bounding_Coordinate:
30.12500
Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Hydrography
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of

consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent linear and polygonal hydrography for Mississippi.

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:

MISSISSIPPI DEPARTMENT OF INFORMATION TECHNOLOGY SERVICES

Publication_Date:

2007

Title:

NATURAL COLOR PHOTOGRAPHY

Geospatial_Data_Presentation_Form:

PHOTOGRAPHY

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

disc

Source_Time_Period_of_Content:

Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2007
Source_Currentness_Reference:
DATE OF SURVEY
Source_Citation_Abbreviation:
NONE
Source_Contribution:
HYDRO INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI OFFICE OF GEOLOGY: COASTAL GEOLOGY SECTION: MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
Publication_Date:
2002
Title:
UPDATED SHORELINE
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage:
http://geology.deq.state.ms.us/coastal/Shorelines-updated.htm
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
1986
Ending_Date:
2002
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
HYDRO INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS), OFFICE OF RESPONSE AND RESTORATION (OR&R), EMERGENCY RESPONSE DIVISION (ERD)

Publication_Date:
1995
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: MISSISSIPPI: ESI: HYDRO
Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:
SEATTLE, WA
Publisher:
NOAA
Other_Citation_Details:
7600 SAND POINT WAY, SEATTLE, WA 98115-6349
Online_Linkage:
http://response.restoration.noaa.gov/esi
Source_Scale_Denominator:
24000
Type_of_Source_Media:
CD-ROM
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
1995
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
HYDRO INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS), OFFICE OF RESPONSE AND RESTORATION (OR&R), EMERGENCY RESPONSE DIVISION (ERD)
Publication_Date:
1995
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: MISSISSIPPI: ESIP
Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:

SEATTLE, WA
Publisher:
NOAA
Other_Citation_Details:
7600 SAND POINT WAY, SEATTLE, WA 98115-6349
Online_Linkage:
http://response.restoration.noaa.gov/esi
Source_Scale_Denominator:
24000
Type_of_Source_Media:
CD-ROM
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
1995
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
HYDRO INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
RESEARCH PLANNING, INC.
Publication_Date:
2008
Title:
ESI INDEX
Geospatial_Data_Presentation_Form:
vector digital data
Other_Citation_Details:
UNPUBLISHED
Source_Scale_Denominator:
24000
Type_of_Source_Media:
DIGITAL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2008
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RESEARCH PLANNING, INC.

Publication_Date:

200801

Title:

OVERFLIGHT OBLIQUES

Geospatial_Data_Presentation_Form:

PHOTOGRAPHS

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

DIGITAL PHOTO

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

200801

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

HYDRO INFORMATION

Process_Step:

Process_Description:

The shoreline was derived primarily from digital data originating from the 1995 Mississippi Environmental Sensitivity Index (ESI) atlas HYDRO and ESIP data sets. In addition to the 1995 HYDRO data set, updated 2002 shoreline data from the Mississippi Office of Geology was used in areas of significant shoreline change, particularly along the barrier islands. Shoreline changes were digitized using heads-up digitization of 2007 Mississippi Department of Information Technology Services vertical aerial photography and 2008 RPI oblique aerial photography and integrated with the previously mentioned data sets.The above digital and/or hardcopy sources were compiled to create the HYDRO data layer. Depending on the type of source data, four general approaches are used for compiling the data layer: 1) hardcopy maps are digitized at their source scale; 2) digital data layers are evaluated and used "as is" or integrated with the other data sources; 3) overflight classifications are digitized from the scanned and registered hardcopy field maps; and/or 4) classifications are interpreted from oblique gps referenced photography or video taken during the overflights. After the initial shoreline classification, these data are edgematched and checked for logical consistency errors. Review maps are plotted at 1:24,000 scale for verification of polygonal and linear attributes. See the Lineage section for additional information on the type of source

data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the HYDRO data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
2927
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
2927
SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
15778
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
250113
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Label point
Point_and_Vector_Object_Count:
265
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
15489

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Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution:
0.0000001
Longitude_Resolution:
0.0000001
Geographic_Coordinate_Units:
Decimal degrees
Geodetic_Model:
Horizontal_Datum_Name:
North American Datum of 1983
Ellipsoid_Name:
Geodetic Reference System 80
Semi-major_Axis:
6378137.000000
Denominator_of_Flattening_Ratio:
298.257221

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
HYDRO.AAT
Entity_Type_Definition:
The HYDRO.AAT table contains attribute information for the vector lines representing linear hydrography features in the HYDRO data layer.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
LINE
Attribute_Definition:
Type of geographic feature.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
B
Enumerated_Domain_Value_Definition:
Breakwater
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
H
Enumerated_Domain_Value_Definition:
Hydrography
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
I
Enumerated_Domain_Value_Definition:
Index
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
S
Enumerated_Domain_Value_Definition:
Shoreline
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SOURCE_ID
Attribute_Definition:
Source identifier that links 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 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
Detailed_Description:
Entity_Type:
Entity_Type_Label:
HYDRO.PAT
Entity_Type_Definition:
The HYDRO.PAT table contains attribute information for the vector polygons representing polygonal hydrography features in the HYDRO data layer.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
WATER_CODE
Attribute_Definition:
Specifies a polygon as either water or land.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
L
Enumerated_Domain_Value_Definition:
Land
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
W
Enumerated_Domain_Value_Definition:
Water
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
ANNO.GEOG
Entity_Type_Definition:
The spatial data layer HYDRO contains label points representing annotation for geographic features.
Entity_Type_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

ANNO.HYDRO

Entity_Type_Definition:

The spatial data layer HYDRO contains label points representing annotation for water features.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

ANNO.SOC

Entity_Type_Definition:

The spatial data layer HYDRO contains label points representing annotation for socioeconomic features.

Entity_Type_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 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.
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, HYDRO) 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).

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Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
John Kaperick
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product

when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.

Custom_Order_Process:

Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:

Metadata_Date:

20100512

Metadata_Review_Date:

20100512

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

Jill Petersen

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

Jill.Petersen@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage:

http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf

Profile_Name:

Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: ESI (Environmental Sensitivity Index Shoreline Types - Lines and Polygons)

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: ESI (Environmental Sensitivity Index Shoreline Types - Lines and Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:

Publication_Place:
Seattle, Washington
Publisher:
NOAA's Ocean Service, Office of Response and Restoration (OR&R), Emergency Response Division (ERD).
Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Online_Linkage:
http://response.restoration.noaa.gov/esi
Description:
Abstract:
This data set contains vector lines and polygons representing the shoreline and coastal habitats for Mississippi classified according to the Environmental Sensitivity Index (ESI) classification system. This data set comprises a portion of the ESI data for Mississippi. 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 WETLANDS data layer, part of the larger Mississippi ESI database, for additional ESI information.
Purpose:
The ESI data were collected, mapped, and digitized to provide environmental data for oil spill planning and response. The Clean Water Act with amendments by the Oil Pollution Act of 1990 requires response plans for immediate and effective protection of sensitive resources.
Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
1986
Ending_Date:
2009
Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness dates for this data range from 1986 to 2009 and are documented in the Lineage section.
Status:
Progress:
Complete
Maintenance_and_Update_Frequency:
None Scheduled
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate:
-89.75000
East_Bounding_Coordinate:

-88.37500
North_Bounding_Coordinate:
30.50000
South_Bounding_Coordinate:
30.12500
Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents

known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent coastal shorelines and habitats classified according to the Environmental Sensitivity Index (ESI) classification system. See also the WETLANDS data layer, part of the larger Mississippi ESI database, for additional ESI information.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

G.HOPKINS, NATIONAL PARK SERVICE

Publication_Date:

2009

Title:

DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS

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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
ESI INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF INFORMATION TECHNOLOGY SERVICES
Publication_Date:
2007
Title:
NATURAL COLOR PHOTOGRAPHY
Geospatial_Data_Presentation_Form:
PHOTOGRAPHY
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
disc
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2007
Source_Currentness_Reference:
DATE OF SURVEY
Source_Citation_Abbreviation:
NONE
Source_Contribution:
ESI INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI OFFICE OF GEOLOGY: COASTAL GEOLOGY SECTION: MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Publication_Date:
2002
Title:
UPDATED SHORELINE
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage:
http://geology.deq.state.ms.us/coastal/Shorelines-updated.htm
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
1986
Ending_Date:
2002
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
ESI INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS), OFFICE OF RESPONSE AND RESTORATION (OR&R), EMERGENCY RESPONSE DIVISION (ERD)
Publication_Date:
1995
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: MISSISSIPPI: ESI: HYDRO
Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:
SEATTLE, WA
Publisher:
NOAA
Other_Citation_Details:
7600 SAND POINT WAY, SEATTLE, WA 98115-6349
Online_Linkage:
http://response.restoration.noaa.gov/esi
Source_Scale_Denominator:

24000
Type_of_Source_Media:
CD-ROM
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
1995
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
ESI INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS), OFFICE OF RESPONSE AND RESTORATION (OR&R), EMERGENCY RESPONSE DIVISION (ERD)
Publication_Date:
1995
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: MISSISSIPPI: ESIP
Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:
SEATTLE, WA
Publisher:
NOAA
Other_Citation_Details:
7600 SAND POINT WAY, SEATTLE, WA 98115-6349
Online_Linkage:
http://response.restoration.noaa.gov/esi
Source_Scale_Denominator:
24000
Type_of_Source_Media:
CD-ROM
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
1995
Source_Currentness_Reference:

DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
ESI INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
RESEARCH PLANNING, INC.
Publication_Date:
200801
Title:
OVERFLIGHT OBLIQUES
Geospatial_Data_Presentation_Form:
PHOTOGRAPHS
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
DIGITAL PHOTO
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
200801
Source_Currentness_Reference:
DATE OF SURVEY
Source_Citation_Abbreviation:
NONE
Source_Contribution:
ESI INFORMATION
Process_Step:
Process_Description:
Original ESI maps, published in 1995, were re-examined and fully updated. The intertidal shoreline habitats of Mississippi were mapped via interpretation of a continuous, overlapping set of georeferenced oblique aerial photographs which were acquired in January 2008 during overflights. The overflights were conducted using fixed-wing aircraft operated by the USCG Auxillary, flying at altitudes of 400-600 feet and slow air speeds. All flights were planned to maximize time on site during the 2.5 hours preceding and the 2.5 hours following peak low tide. Where appropriate, revisions to the existing shoreline were made – most notably, along the barrier islands. Where necessary, multiple habitats were described for each shoreline segment.The above digital and/or hardcopy sources were compiled to create the ESI data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) hardcopy maps are digitized at their source scale; 2) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources; and 3) overflight changes are digitized from the scanned and registered

hardcopy field maps or aerial photography. After the initial shoreline classification, these data are edgematched and checked for logical consistency errors. Review maps are plotted at 1:24,000 scale for verification of polygonal and linear attributes. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the ESI data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
544
SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
544
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
8365
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
205570
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
8399

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
ESI.AAT
Entity_Type_Definition:
The ESI.AAT table contains attribute information for the vector lines representing linear shoreline features with ESI classification.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

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

Enumerated_Domain_Value:
2B
Enumerated_Domain_Value_Definition:
Exposed Scarps and Steep Slopes in Clay
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
3A
Enumerated_Domain_Value_Definition:
Fine- to Medium-grained Sand Beaches
Enumerated_Domain_Value_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:
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:
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 Scarps in Mud or Clay
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
8B
Enumerated_Domain_Value_Definition:
Sheltered, Solid Man-made Structures
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
8C
Enumerated_Domain_Value_Definition:
Sheltered Riprap
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
9A
Enumerated_Domain_Value_Definition:
Sheltered Tidal Flats
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
9B
Enumerated_Domain_Value_Definition:
Sheltered, Vegetated Low Banks
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10A
Enumerated_Domain_Value_Definition:
Salt- and Brackish-water Marshes
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10B

Enumerated_Domain_Value_Definition:
Freshwater Marshes
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10C
Enumerated_Domain_Value_Definition:
Swamps
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10D
Enumerated_Domain_Value_Definition:
Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
U
Enumerated_Domain_Value_Definition:
Unranked
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
LINE
Attribute_Definition:
Type of geographic feature.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
B
Enumerated_Domain_Value_Definition:
Breakwater
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
F
Enumerated_Domain_Value_Definition:
Flat

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
H
Enumerated_Domain_Value_Definition:
Hydrography
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
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 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 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:
ENVIR
Attribute_Definition:
Type of regional environment.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Estuarine
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Detailed_Description:
Entity_Type:
Entity_Type_Label:
ESI.PAT
Entity_Type_Definition:
The ESI.PAT table contains attribute information for the vector polygons representing polygonal features with ESI classification.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ESI
Attribute_Definition:
The item ESI contains values representing the ESI polygon type.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
7
Enumerated_Domain_Value_Definition:
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:
10A
Enumerated_Domain_Value_Definition:
Salt- and Brackish-water Marshes
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
10B
Enumerated_Domain_Value_Definition:
Freshwater Marshes
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10C
Enumerated_Domain_Value_Definition:
Swamps
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10D
Enumerated_Domain_Value_Definition:
Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
U
Enumerated_Domain_Value_Definition:
Unranked
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
WATER_CODE
Attribute_Definition:
Specifies a polygon as either water or land.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
L
Enumerated_Domain_Value_Definition:
Land
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

W

Enumerated_Domain_Value_Definition:

Water

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ENVIR

Attribute_Definition:

Type of regional environment.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Estuarine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

U

Enumerated_Domain_Value_Definition:

Unclassified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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 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.

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, ESI) 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).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

John Kaperick

Contact_Organization:

NOAA, Office of Response and Restoration

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Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6400

Contact_Facsimile_Telephone:

(206) 526-6329

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.

Custom_Order_Process:

Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:

Metadata_Date:

20100512

Metadata_Review_Date:

20100512

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

Jill Petersen

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way, N.E.

City:

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State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov
Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: WETLANDS (Wetland Polygons)

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: WETLANDS (Wetland Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains vector polygons representing coastal wetlands classified according to the Environmental Sensitivity Index (ESI) classification system for Mississippi. This data set comprises a portion of the ESI data for Mississippi. 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 ESI data layer, part of the larger Mississippi ESI database, for additional ESI information.

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

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
1996

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness date for this data is 1996 and is documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:
-88.37500

North_Bounding_Coordinate:
30.50000

South_Bounding_Coordinate:
30.12500

Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Wetlands
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources,

such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

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

experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

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

Completeness_Report:

These data represent polygons representing coastal wetland habitats classified according to the Environmental Sensitivity Index (ESI) classification system. See also the ESI data layer, part of the larger Mississippi 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:

U.S. FISH AND WILDLIFE SERVICE

Publication_Date:

1996

Title:

NATIONAL WETLANDS INVENTORY

Geospatial_Data_Presentation_Form:

vector digital data

Online_Linkage:

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

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1988

Ending_Date:
1996
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
WETLANDS INFORMATION
Process_Step:
Process_Description:
1996 National Wetlands Inventory (NWI) data were used in the classification of polygonal wetlands. The polygonal wetlands were spatially modified based on the 2006 georeferenced oblique aerial photographs, 2007 Mississippi Department of Information technology Services (MDITS) vertical aerial photography, and 1995 Mississippi ESI atlas HYDRO data. Spatial revisions to the tidal flats from the 1995 atlas, where appropriate, were integrated using the oblique aerial photographs and MDITS vertical aerial photography.
Process_Date:
200912
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector

Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
7030
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
7029
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
10852
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
694996
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
8790

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

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Entity_and_Attribute_Information:

Detailed_Description:
Entity_Type:
Entity_Type_Label:
WETLANDS.PAT
Entity_Type_Definition:
The WETLANDS.PAT table contains attribute information for the vector polygons representing polygonal features with ESI classification.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ESI
Attribute_Definition:
The item ESI contains values representing the ESI polygon type.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10A
Enumerated_Domain_Value_Definition:
Salt- and Brackish-water Marshes
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10B
Enumerated_Domain_Value_Definition:
Freshwater Marshes
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10C
Enumerated_Domain_Value_Definition:
Swamps
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
10D
Enumerated_Domain_Value_Definition:
Scrub-shrub Wetlands
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
U
Enumerated_Domain_Value_Definition:
Unranked
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ENVIR
Attribute_Definition:
Type of regional environment.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Estuarine
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
U
Enumerated_Domain_Value_Definition:
Unclassified
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
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 (WETLANDS) 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).

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Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
John Kaperick

Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Address:
Address_Type:
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Address:
7600 Sand Point Way N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.
Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen

Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Position:
GIS Manager
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Address_Type:
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Address:
7600 Sand Point Way, N.E.
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Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov
Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

Back To Index

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: INDEX (Index Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains vector polygons representing the boundaries of all hardcopy cartographic products produced as part of the Environmental Sensitivity Index (ESI) for Mississippi. This data set comprises a portion of the ESI data for Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

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

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness date for this data is 2009 and is documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:
-88.37500

North_Bounding_Coordinate:
30.50000

South_Bounding_Coordinate:
30.12500

Keywords:

Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.
Browse_Graphic:

Browse_Graphic_File_Name:
datafig.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and attribute data tables for the Mississippi ESI data.
Browse_Graphic_File_Type:
JPEG
Browse_Graphic:
Browse_Graphic_File_Name:
datafig2.jpg
Browse_Graphic_File_Description:
Depicts the relationships between spatial data layers and desktop data tables for the Mississippi ESI data.
Browse_Graphic_File_Type:
JPEG
Data_Set_Credit:
This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Native_Data_Set_Environment:
The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.
Program_Affiliation:
Program_Name:
National Ocean Service Data Explorer

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

listed in the Lineage section.

Logical_Consistency_Report:

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

Completeness_Report:

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

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RESEARCH PLANNING, INC.

Publication_Date:

2008

Title:

ESI INDEX

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Source_Scale_Denominator:

24000

Type_of_Source_Media:

DIGITAL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2008

Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
INDEX INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
U.S. GEOLOGICAL SURVEY
Publication_Date:
2008
Title:
SCANNED TOPOGRAPHIC MAPS
Geospatial_Data_Presentation_Form:
raster digital data
Online_Linkage:
http://libremap.org/data/state/mississippi/drg/
Source_Scale_Denominator:
24000
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
1970
Ending_Date:
1994
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
BAY ST. LOUIS, MISS.(1976); BILOXI, MISS.(1976); CAT ISLAND, MISS.-LA.(1994); DEER ISLAND, MISS.(1970); DOG KEYS PASS, MISS.(1970); ENGLISH LOOKOUT, LA.-MISS.(1976); GAUTIER NORTH, MISS.(1982); GAUTIER SOUTH, MISS.(1982); GRAND BAY SW, MISS.-ALA.(1977); GRAND ISLAND PASS, MISS.-LA.(1976); GULFPORT NORTH, MISS.(1985); GULFPORT NW, MISS.(1985); GULFPORT SOUTH, MISS.(1994); HAASWOOD, LA.-MISS.(1976); HORN ISLAND EAST, MISS.(1982); HORN ISLAND WEST, MISS.(1982); ISLE AU PITRE, LA.-MISS.(1994); KREOLE, MISS.-ALA. (1986); LOGTOWN, MISS.(1976); OCEAN SPRINGS, MISS.(1987); PASCAGOULA NORTH, MISS.(1982); PASCAGOULA SOUTH, MISS.(1982); PASS CHRISTIAN, MISS.(1994); PETIT BOIS ISLAND, MISS.-ALA.(1982); SHIP ISLAND, MISS.(1970); VIDALIA, MISS.(1976); WAVELAND, MISS.(1976)

Process_Step:
Process_Description:
Primarily, 1:24,000 USGS topographic maps were used to provide boundaries for cartographic products. In some cases the polygons represent USGS topographic maps that were re-tiled, moved, or extended to provide better cartographic coverage of the study area.
Process_Date:
200912
Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
29
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
29
SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
72
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
72
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
44

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
INDEX.PAT
Entity_Type_Definition:
The INDEX.PAT table contains attribute information for the vector polygons representing the boundaries of the maps and digital data boundaries used in the creation of the ESI atlas.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:

TILE-NAME
Attribute_Definition:
The TILE-NAME contains the map number according to the specified layout of the atlas.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
29
Attribute:
Attribute_Label:
TOPO-NAME
Attribute_Definition:
USGS Topographic map name, short description of location, or atlas name.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
SCALE
Attribute_Definition:
SCALE contains the value of the denominator of the scale at which the map is plotted in the final map product.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
24000
Enumerated_Domain_Value_Definition:
Scale = 1:24,000
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
MAPANGLE
Attribute_Definition:
MAPANGLE contains the value to rotate the final map product so that it is situated straight up and down.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:

0.7250
Range_Domain_Maximum:
1.3600
Attribute_Units_of_Measure:
Degree
Attribute:
Attribute_Label:
PAGESIZE
Attribute_Definition:
PAGESIZE contains the value of the width and height of the map in the final map product.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
11,17
Enumerated_Domain_Value_Definition:
Page size= 11" by 17
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, relational attribute or data tables are used to store information in the ESI data structure. The entity-relationship diagram describes relationships between attribute tables in the ESI data structure. This particular geographic data layer (INDEX) 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).

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Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
John Kaperick
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way N.E.
City:
Seattle
State_or_Province:

Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.
Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Position:
GIS Manager
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way, N.E.
City:

Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov
Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: MGT (Management Area Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains sensitive human-use data for artificial reefs, National Park Service properties, Wildlife Management Areas, National Wildlife Refuges, and Indian Reservations in Mississippi. Vector polygons in this data set represent management areas. Location specific type and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer.This data set comprises a portion of the ESI data for Mississippi. 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 data layer, part of the larger Mississippi ESI database, for additional human-use information.

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

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:
1972

Ending_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness dates for this data range from 1972 to 2009 and are documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:

-88.37500
North_Bounding_Coordinate:
30.50000
South_Bounding_Coordinate:
30.12500
Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Management
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of

consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of digital boundaries for management areas. See also the SOCECON data layer, part of the larger Mississippi ESI database, for additional human-use information. These data do not necessarily represent all management areas in Mississippi.

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:
G.HOPKINS, NATIONAL PARK SERVICE
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
J. CLARK, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2009
Title:
MISSISSIPPI COASTAL PRESERVE BOUNDARY DATA
Geospatial_Data_Presentation_Form:
vector digital data
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
NONE
Source_Contribution:
MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2003
Title:
OFFSHORE ARTIFICIAL REEFS
Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:
BILOXI, MISSISSIPPI
Publisher:
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Online_Linkage:
http://www.dmr.state.ms.us/Fisheries/Reefs/artificial-reefs.htm
Type_of_Source_Media:
EMAIL
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:
MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF WILDLIFE, FISHERIES, AND PARKS
Publication_Date:
1997
Title:
BOUNDRIES OF STATE PARKS IN MISSISSIPPI
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage:

ftp://www.maris.state.ms.us/statewide/mstm/av/sparks.exe

Source_Scale_Denominator:
24000

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:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF WILDLIFE, FISHERIES, AND PARKS

Publication_Date:
20070601

Title:
MDWFP WMA'S

Geospatial_Data_Presentation_Form:
vector digital data

Online_Linkage:
http://www.maris.state.ms.us/HTM/DownloadData/Statewide-Alpha.html

Source_Scale_Denominator:
24000

Type_of_Source_Media:
online

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
20070607

Ending_Date:
20070807

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
MGT INFORMATION

Source_Information:

Source_Citation:
Citation_Information:
Originator:
NATIONAL ATLAS OF THE U.S. AND THE U.S.GEOLOGICAL SURVEY
Publication_Date:
20061001
Title:
NATIVE AMERICAN LANDS
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage:
http://www.gis.ms.gov/Portal/dataDownload.do?dxLayer=GIS.NativeAmericanArea_dbprod
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
1972
Ending_Date:
2004
Source_Currentness_Reference:
DATE OF SURVEY
Source_Citation_Abbreviation:
NONE
Source_Contribution:
MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
National Park Service
Publication_Date:
20090511
Title:
nps_boundary
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage:
http://nrdata.nps.gov/programs/lands/nps_boundary.zip
Source_Scale_Denominator:
24000
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:

Beginning_Date:
20020201
Ending_Date:
20090511
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
U.S.FISH AND WILDLIFE SERVICE, Region 9, Information Technology Management, Branch of Data and Systems Services
Publication_Date:
200110
Title:
U.S. FISH AND WILDLIFE SERVICE, Revised Refuge Boundaries
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage: Contact the site webmaster if this URL is no longer active.
http://www.fws.gov/data/r4gis/r4bnd_ims.zip
Source_Scale_Denominator:
24000
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
200110
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
MGT INFORMATION
Process_Step:
Process_Description:
Four main sources were used to depict management areas for this data layer: 1) digital data on National lands and Indian Reservations provided by Mississippi Geospatial Clearinghouse, 2) digital data on National Wildlife Refuges and Wildlife Management Areas provided by Mississippi Department of Wildlife, Fisheries, and Parks, 3) digital data on National and state parks provided by Mississippi Automated Resource Information

System, and 4) digital data on management areas and artificial reefs provided by Mississippi Department of Marine Resources.The above digital and/or hardcopy sources were compiled by the project biologist to create the MGT data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the MGT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
113
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
113
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
268
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
37798
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
188

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:

Entity_Type_Label:
MGT.PAT
Entity_Type_Definition:
The MGT.PAT table contains attribute information for the vector polygons representing artificial reefs, National Park Service properties, management areas, Wildlife Refuges, and Indian reservations. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
TYPE
Attribute_Definition:
The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations.
Attribute_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:
IR
Enumerated_Domain_Value_Definition:
Indian Reservation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
MA
Enumerated_Domain_Value_Definition:
Management Area
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
MR
Enumerated_Domain_Value_Definition:

Multiple Records - Signifies that multiple types overlap in the polygon

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
NP
Enumerated_Domain_Value_Definition:
National Park
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

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

Attribute:
Attribute_Label:
ID
Attribute_Definition:
An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (232), element number (11), and record number. ID values of 9999 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
2321100002
Range_Domain_Maximum:
2321100132

Attribute:
Attribute_Label:
HUNUM
Attribute_Definition:
An identifier that links directly to the SOC_DAT table. HUNUM values of

0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000014
Range_Domain_Maximum:
232000333

Detailed_Description:
Entity_Type:
Entity_Type_Label:
SOC_LUT

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
HUNUM

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000333

Attribute:
Attribute_Label:
ID

Attribute_Definition:
An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (232), element number (11), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:

2321000001
Range_Domain_Maximum:
2321100132
Detailed_Description:
Entity_Type:
Entity_Type_Label:
SOC_DAT
Entity_Type_Definition:
The data table SOC_DAT contains both human-use attribute data and items necessary for linking the human-use spatial data layers to the SOURCES data table. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
HUNUM
Attribute_Definition:
An identifier that links records in the SOC_DAT data table to records in the SOC_LUT data table. HUNUM values of 0 are holes in the polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000333
Attribute:
Attribute_Label:
TYPE
Attribute_Definition:
The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
ACCESS
Enumerated_Domain_Value_Definition:
Access
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

AIRPORT
Enumerated_Domain_Value_Definition:
Airport
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
ARCHAEOLOGICAL SITE
Enumerated_Domain_Value_Definition:
Archaeological Site
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
ARTIFICIAL REEF
Enumerated_Domain_Value_Definition:
Artificial Reef
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BEACH
Enumerated_Domain_Value_Definition:
Beach
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BOAT RAMP
Enumerated_Domain_Value_Definition:
Boat Ramp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
CAMPGROUND
Enumerated_Domain_Value_Definition:
Campground
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
COAST GUARD

Enumerated_Domain_Value_Definition:
Coast Guard
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FERRY
Enumerated_Domain_Value_Definition:
Ferry
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FIELD STATION
Enumerated_Domain_Value_Definition:
Field Station
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HISTORICAL SITE
Enumerated_Domain_Value_Definition:
Historical Site
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INDIAN RESERVATION
Enumerated_Domain_Value_Definition:
Indian Reservation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
MANAGEMENT AREA
Enumerated_Domain_Value_Definition:
Management Area
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
MARINA
Enumerated_Domain_Value_Definition:

Marina
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
NATIONAL PARK
Enumerated_Domain_Value_Definition:
National Park
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
PARK
Enumerated_Domain_Value_Definition:
Regional or State Park
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
RECREATIONAL FISHING
Enumerated_Domain_Value_Definition:
Recreational Fishing
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
WILDLIFE REFUGE
Enumerated_Domain_Value_Definition:
Wildlife Refuge
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NAME
Attribute_Definition:
The feature name.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
CONTACT
Attribute_Definition:

Contact person or entity.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
PHONE
Attribute_Definition:
Contact telephone number.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Any character
Enumerated_Domain_Value_Definition:
Free text
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
G_SOURCE
Attribute_Definition:
Geographic source identifier that links records in the SOC_DAT data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
A_SOURCE
Attribute_Definition:
Attribute source identifier that links records in the SOC_DAT data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.
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, MGT) is linked to the Socioeconomic Resources table (SOC_DAT) using the unique ID and the lookup table SOC_LUT, or it can be linked directly using HUNUM. HUNUM is a unique reference number concatenated with the atlas number (for Mississippi, the number is 232). ID is a unique combination of the atlas number (232), an element specific number (MGT = 11), and a unique record number. 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).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

John Kaperick

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6400

Contact_Facsimile_Telephone:

(206) 526-6329

Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.

Custom_Order_Process:

Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format.

This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Position:
GIS Manager
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov
Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: SOCECON (Socioeconomic Resource Points and Lines)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains human-use resource data for access, airports, archaeological sites, artificial reefs, boat ramps, camping sites, Coast Guard stations, ferries, historical sites, marinas, NPS ranger stations, recreational beaches, and recreational fishing in Mississippi. Vector points and lines in this data set represent human-use site locations. Location specific type and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer.This data set comprises a portion of the ESI data for Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also the MGT data layer, part of the larger Mississippi ESI database, for additional human-use information.

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

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:
1995

Ending_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness dates for this data range from 1995 to 2009 and are documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:
-88.37500
North_Bounding_Coordinate:
30.50000
South_Bounding_Coordinate:
30.12500

Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Socioeconomic
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi

Access_Constraints:
None

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other

organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy reports, and digital data on socioeconomic resources. See also the MGT data layer, part of the larger Mississippi ESI database, for additional human-use information. These data do not necessarily represent all human-use sites in Mississippi.

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:
CHARLIE WELCH, GIS SPECIALIST, MISSISSIPPI DEPARTMENT OF WILDLIFE, FISHERIES, AND PARKS
Publication_Date:
20090401
Title:
BOAT RAMPS
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:
20090401
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
G.HOPKINS, NATIONAL PARK SERVICE
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS
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:
2009
Source_Currentness_Reference:

DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
J. CLARK, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2009
Title:
ABUNDANCE AND DISTRIBUTION DATA FOR WILDLIFE RESOURCES
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
J. CLARK, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2009
Title:
MISSISSIPPI COASTAL PRESERVE BOUNDARY DATA
Geospatial_Data_Presentation_Form:
vector digital data
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI AUTOMATED RESOURCE INFORMATION SYSTEM (MARIS)
Publication_Date:
1998
Title:
NATIONAL HISTORIC REGISRTY SITES IN MISSISSIPPI (MSTM)(1998)[NATREG]
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage:
http://www.maris.state.ms.us/HTM/DownloadData/Statewide-Alpha.html
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
1998
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2008
Title:
INSHORE ARTIFICIAL REEFS

Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:
BILOXI, MISSISSIPPI
Publisher:
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Online_Linkage:
http://www.dmr.state.ms.us/Fisheries/Reefs/artificial-reefs.htm
Type_of_Source_Media:
EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
2008
Ending_Date:
2008
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF WILDLIFE, FISHERIES, AND PARKS
Publication_Date:
200507
Title:
RECREATIONAL FACILITIES
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage:
http://www.maris.state.ms.us/HTM/DownloadData/Statewide-Alpha.html
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
200507
Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Publication_Date:
1995
Title:
SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE TO SPILLED OIL: MISSISSIPPI: SOCECON
Geospatial_Data_Presentation_Form:
map
Publication_Information:
Publication_Place:
SEATTLE, WA
Publisher:
NOAA
Other_Citation_Details:
7600 SAND POINT WAY, SEATTLE, WA 98115-6349
Online_Linkage:
http://response.restoration.noaa.gov/esi
Source_Scale_Denominator:
24000
Type_of_Source_Media:
CD-ROM
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
1995
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
US COAST GUARD TENANT COMMANDS
Publication_Date:
2009

Title:
US COAST GUARD TENANT COMMANDS
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
SOCECON INFORMATION
Process_Step:
Process_Description:
Three main sources of data were used to depict human-use resources for this data layer: 1) personal interviews with resource experts from the National Park Service, U.S. Fish and Wildlife Service (USFWS), Mississippi Department of Marine Resources (MDMR), and the Mississippi Department of Wildlife, Fisheries, and Parks, 2) numerous published and unpublished reports, and 3) MDMR digital inshore and offshore artificial reef layers. The attributes of the RECREATIONAL FACILITIES dataset provided by MS DEPT. OF WILDLIFE, FISHERIES, AND PARKS (SOURCE_ID 95) were edited to reflect the 1997 area code change to 228.The above digital and/or hardcopy sources were compiled by the project biologist to create the SOCECON data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the SOCECON data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.
Process_Date:
200912
Process_Contact:
Contact_Information:

Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
3
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
599
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Entity point
Point_and_Vector_Object_Count:
303
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
5

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
SOCECON.AAT
Entity_Type_Definition:
The SOCECON.AAT table contains attribute information for the vector lines representing State boundaries.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
TYPE
Attribute_Definition:
The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
SB
Enumerated_Domain_Value_Definition:
State Border
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:

Entity_Type_Label:
SOCECON.PAT
Entity_Type_Definition:
The SOCECON.PAT table contains attribute information for the vector points representing access, airports, archaeological sites, artificial reefs, boat ramps, camping sites, Coast Guard stations, ferries, historical sites, marinas, NPS ranger stations, recreational beaches, and recreational fishing. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
TYPE
Attribute_Definition:
The human-use features depicted on the maps are those that could be impacted by an oil spill or could provide access for response operations.
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:
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:
C
Enumerated_Domain_Value_Definition:
Campground
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
CG
Enumerated_Domain_Value_Definition:
Coast Guard
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
F
Enumerated_Domain_Value_Definition:
Ferry
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FS
Enumerated_Domain_Value_Definition:

Field Station
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HS
Enumerated_Domain_Value_Definition:
Historical Site
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M
Enumerated_Domain_Value_Definition:
Marina
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
RF
Enumerated_Domain_Value_Definition:
Recreational Fishing
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ID
Attribute_Definition:
An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (232), element number (10), and record number. ID values of 9999 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
2321000001
Range_Domain_Maximum:
2321000303
Attribute:
Attribute_Label:
HUNUM
Attribute_Definition:
An identifier that links directly to the SOC_DAT table. HUNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000318

Detailed_Description:
Entity_Type:
Entity_Type_Label:
SOC_LUT
Entity_Type_Definition:
The data table SOC_LUT is a lookup table that contains items necessary for linking vector objects in the human-use data layers with the SOC_DAT data table. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
HUNUM
Attribute_Definition:
An identifier that links records in the SOC_LUT data table to records in the SOC_DAT data table. HUNUM values of 0 are holes in the polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000333
Attribute:
Attribute_Label:
ID
Attribute_Definition:
An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (232), element number (10), and record number. ID values of 9999 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
2321000001

Range_Domain_Maximum:
2321100132

Detailed_Description:

Entity_Type:

Entity_Type_Label:
SOC_DAT

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
HUNUM

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
232000001

Range_Domain_Maximum:
232000333

Attribute:

Attribute_Label:
TYPE

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
ACCESS

Enumerated_Domain_Value_Definition:
Access

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
AIRPORT

Enumerated_Domain_Value_Definition:
Airport
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
ARCHAEOLOGICAL SITE
Enumerated_Domain_Value_Definition:
Archaeological Site
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
ARTIFICIAL REEF
Enumerated_Domain_Value_Definition:
Artificial Reef
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BEACH
Enumerated_Domain_Value_Definition:
Beach
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BOAT RAMP
Enumerated_Domain_Value_Definition:
Boat Ramp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
CAMPGROUND
Enumerated_Domain_Value_Definition:
Campground
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
COAST GUARD
Enumerated_Domain_Value_Definition:

Coast Guard
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FERRY
Enumerated_Domain_Value_Definition:
Ferry
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FIELD STATION
Enumerated_Domain_Value_Definition:
Field Station
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HISTORICAL SITE
Enumerated_Domain_Value_Definition:
Historical Site
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INDIAN RESERVATION
Enumerated_Domain_Value_Definition:
Indian Reservation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
MANAGEMENT AREA
Enumerated_Domain_Value_Definition:
Management Area
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
MARINA
Enumerated_Domain_Value_Definition:
Marina

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
NATIONAL PARK
Enumerated_Domain_Value_Definition:
National Park
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
PARK
Enumerated_Domain_Value_Definition:
Regional or State Park
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
RECREATIONAL FISHING
Enumerated_Domain_Value_Definition:
Recreational Fishing
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
WILDLIFE REFUGE
Enumerated_Domain_Value_Definition:
Wildlife Refuge
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NAME
Attribute_Definition:
The feature name.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
CONTACT
Attribute_Definition:
Contact person or entity.

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
PHONE
Attribute_Definition:
Contact telephone number.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Any character
Enumerated_Domain_Value_Definition:
Free text
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
G_SOURCE
Attribute_Definition:
Geographic source identifier that links records in the SOC_DAT data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
A_SOURCE
Attribute_Definition:
Attribute source identifier that links records in the SOC_DAT data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Detailed_Description:

Entity_Type:
Entity_Type_Label:
SOURCES
Entity_Type_Definition:
The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SOURCE_ID
Attribute_Definition:
Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

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) is linked to the Socioeconomic Resources table (SOC_DAT) using the unique ID and the lookup table SOC_LUT, or it can be linked directly using HUNUM. HUNUM is a unique reference number concatenated with the atlas number (for Mississippi, the number is 232). ID is a unique combination of the atlas number (232), an element specific number (SOCECON = 10), and a unique record number. 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).

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Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
John Kaperick
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.
Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Position:
GIS Manager
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov
Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: BIRDS (Bird Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

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

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

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:
2006

Ending_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness dates for this data range from 2006 to 2009 and are documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
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East_Bounding_Coordinate:
-88.37500
North_Bounding_Coordinate:
30.50000
South_Bounding_Coordinate:
30.12500

Keywords:
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ISO 19115 Topic Category
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Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
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Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Bird
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi

Access_Constraints:
None

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other

organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, and digital data on bird nesting, wintering, migratory staging and other spatial/temporal concentration areas. See also the NESTS data layer, part of the larger Mississippi ESI database, for additional bird information. These data do not necessarily represent all bird occurrences in Mississippi. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 1, Common loon, Gavia immer; 5, Horned grebe, Podiceps auritus; 8, Double-crested cormorant, Phalacrocorax auritus; 12, Canada goose, Branta canadensis; 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; 24, Common goldeneye, Bucephala clangula; 26, Bufflehead, Bucephala albeola; 27, Long-tailed duck, Clangula hyemalis; 33, Red-breasted merganser, Mergus serrator; 34, American coot, Fulica americana; 38, Herring gull, Larus argentatus; 40, Ring-billed gull, Larus delawarensis; 42, Bonaparte's gull, Larus philadelphia; 54, Great blue heron, Ardea herodias; 56, Spotted sandpiper, Actitis macularia; 58, Greater yellowlegs, Tringa melanoleuca; 59, Lesser yellowlegs, Tringa flavipes; 60, Red knot, Calidris canutus; 62,

Least sandpiper, Calidris minutilla; 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; 93, Cattle egret, Bubulcus ibis; 94, Tricolored heron, Egretta tricolor; 97, Green heron, Butorides virescens; 98, Laughing gull, Larus atricilla; 107, Peregrine falcon, Falco peregrinus; 115, White ibis, Eudocimus albus; 116, Roseate spoonbill, Ajaia ajaja; 118, Brown pelican, Pelecanus occidentalis; 119, Magnificent frigatebird, Fregata magnificens; 120, Yellow-crowned night-heron, Nyctanassa violacea; 124, Redhead, Aythya americana; 125, Clapper rail, Rallus longirostris; 128, Masked (blue-faced) booby, Sula dactylatra; 133, Black skimmer, Rynchops niger; 134, Gull-billed tern, Gelochelidon nilotica; 135, Sandwich tern, Thalasseus sandvicensis; 137, Royal tern, Thalasseus maximus; 139, Snowy plover, Charadrius alexandrinus; 148, Ruddy duck, Oxyura jamaicensis; 152, American oystercatcher, Haematopus palliatus; 153, Piping plover, Charadrius melodus; 154, Wilson's plover, Charadrius wilsonia; 155, Willet, Catoptrophorus semipalmatus; 156, Semipalmated sandpiper, Calidris pusilla; 162, Gadwall, Anas strepera; 163, Reddish egret, Egretta rufescens; 167, Northern gannet, Morus bassanus; 169, American wigeon, Anas americana; 173, American white pelican, Pelecanus erythrorhynchos; 178, Least bittern, Ixobrychus exilis; 179, Pied-billed grebe, Podilymbus podiceps; 180, Ring-necked duck, Aythya collaris; 184, King rail, Rallus elegans; 185, American bittern, Botaurus lentiginosus; 187, Virginia rail, Rallus limicola; 188, Sora, Porzana carolina; 190, Blue-winged teal, Anas discors; 191, Wood duck, Aix sponsa; 192, Common moorhen, Gallinula chloropus; 198, Hooded merganser, Lophodytes cucullatus; 211, Mottled duck, Anas fulvigula; 224, Sedge wren, Cistothorus platensis; 225, Marsh wren, Cistothorus palustris; 261, Brown booby, Sula leucogaster; 277, Seaside sparrow, Ammodramus maritimus; 286, Dowitchers, Limnodromus spp.; 298, Mississippi sandhill crane, Grus canadensis pulla; 734, Nelson's sharp-tailed sparrow, Ammodramus nelsoni; 736, Henslow's sparrow, Ammodramus henslowii; 1002, Shorebirds, n/a; 1008, Terns, n/a; 1011, Migratory songbirds, n/a; 1013, Dabbling ducks, n/a.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

data set.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

G.HOPKINS, NATIONAL PARK SERVICE

Publication_Date:

2009

Title:

DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS

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:

2009

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

J. CLARK, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

Publication_Date:

2009

Title:

ABUNDANCE AND DISTRIBUTION DATA FOR WILDLIFE RESOURCES

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

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Time_Period_Information:

Single_Date/Time:

Calendar_Date:
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Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
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Source_Contribution:
BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
J. CLARK, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2009
Title:
BIRDS OF THE HANCOCK COUNTY MARSH COASTAL PRESERVE
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document
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Source_Citation:
Citation_Information:
Originator:
K. BRUNKE, MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2009
Title:
ABUNDANCE AND DISTRIBUTION DATA FOR WATERFOWL
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EXPERT KNOWLEDGE

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Source_Citation:
Citation_Information:
Originator:
L.LACLAIRE, U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
2009
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Source_Citation:
Citation_Information:
Originator:
M. WOODREY, MISSISSIPPI STATE UNIVERSITY
Publication_Date:
2009

Title:
DISTRIBUTION AND ABUNDANCE OF COASTAL RESOURCES
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2009
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DATE OF COMMUNICATION
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Source_Contribution:
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Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2008
Title:
2007-2008_MS_PIPL.XLSX
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Ending_Date:
2008
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DATE OF SURVEY
Source_Citation_Abbreviation:
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Source_Contribution:
BIRDS INFORMATION

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Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2009
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Calendar_Date:
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DATE OF COMMUNICATION
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Source_Information:
Source_Citation:
Citation_Information:
Originator:
N. WINSTEAD, MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2009
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DATE OF COMMUNICATION
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Source_Citation:
Citation_Information:
Originator:
NATIONAL PARK SERVICE
Publication_Date:
2006
Title:
GULF ISLANDS BIRD CHECK LIST
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Publication_Information:
Publication_Place:
OCEAN SPRINGS, MISSISSIPPI
Publisher:
GULF ISLANDS NATIONAL SEASHORE
Type_of_Source_Media:
paper
Source_Time_Period_of_Content:
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Single_Date/Time:
Calendar_Date:
2006
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DATE OF PUBLICATION
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Source_Contribution:
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Source_Citation:
Citation_Information:
Originator:
U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
2008
Title:
BIRDS OF GRAND BAY NATIONAL WILDLIFE REFUGE
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tabular digital data
Online_Linkage:
http://www.fws.gov/grandbay/birds.html
Type_of_Source_Media:
online

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2008
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
2009
Title:
MISSISSIPPI SANDHILL CRANES - THEIR UNIQUE BIOLOGY
Geospatial_Data_Presentation_Form:
tabular digital data
Online_Linkage:
http://www.fws.gov/grandbay/herps.html
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
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 Mississippi State University (MSU), National Park Service-Gulf Islands National Seashore (GINS), Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP), U.S. Fish and Wildlife Service (USFWS), and Mississippi Department of Marine Resources (MDMR), 2) digital point data from Mississippi Museum of Natural Science (MMNS) on bald eagle and piping plover locations, and 3) numerous published and unpublished reports.The above digital and/or hardcopy sources were compiled by the

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

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:

4011
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
4011
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
7818
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
429320
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
5483

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
BIRDS.PAT
Entity_Type_Definition:

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
ID
Attribute_Definition:
An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (1), and record number. ID values of 9999 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232010002
Range_Domain_Maximum:
2320104391

Attribute:
Attribute_Label:
RARNUM
Attribute_Definition:
An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000105

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

other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000001

Range_Domain_Maximum:

232000219

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (1), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2320100002

Range_Domain_Maximum:

2320902443

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIORES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000001

Range_Domain_Maximum:

232000219

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 CONC field refers to "concentration," abundance, or density values of a species at a particular location. No quantitative data were available for birds, so the concentration field may contain descriptive terms such as "COMMON" or "HIGH", or a range of individuals (XX-XXX BIRDS). If no concentration information was available from any source, the field is populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

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

Attribute:
Attribute_Label:
S_SOURCE
Attribute_Definition:
Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:

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

Attribute:
Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:
Entity_Type:
Entity_Type_Label:
SPECIES
Entity_Type_Definition:
The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness Report for list of layer specific species.
Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
NAME
Attribute_Definition:
Species common name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
GEN_SPEC
Attribute_Definition:
Species scientific name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:

Attribute_Label:
SUBELEMENT
Attribute_Definition:
Element subgroup delineating a logical grouping of species.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
alligator
Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
amphibian
Enumerated_Domain_Value_Definition:
Amphibian
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
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:
bivalve
Enumerated_Domain_Value_Definition:
Bivalve
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:
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:
freshwater

Enumerated_Domain_Value_Definition:
Freshwater fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:

Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
pelagic
Enumerated_Domain_Value_Definition:
Pelagic bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
raptor
Enumerated_Domain_Value_Definition:
Raptor
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sav
Enumerated_Domain_Value_Definition:
Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shorebird
Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:
Waterfowl
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NHP
Attribute_Definition:
Natural Heritage Program global ranking.
Attribute_Definition_Source:
Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
NHP Global Conservation Status Rank
Codeset_Source:
Natural Heritage Program
Attribute:
Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
JAN
Attribute_Definition:
January

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in January
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
FEB
Attribute_Definition:
February
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in February
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:
Entity_Type_Label:
BREED
Entity_Type_Definition:
The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIORES and SEASONAL data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
MONTH
Attribute_Definition:
Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
12
Attribute:
Attribute_Label:
BREED1
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if

ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
BREED2

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED3
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
BREED4
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
BREED5
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if

ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C

Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I
Attribute_Definition:
International threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
S_DATE
Attribute_Definition:
Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
F_DATE
Attribute_Definition:
Publication date of source material used to assign federal status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I_DATE
Attribute_Definition:
Publication date of source material used to assign international status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

SPECIES_ID = 1; EL_SPE = 'B00001').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables, BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS, are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, BIRDS) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the Mississippi atlas, the number is 232), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of

species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described 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.Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files described below to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described below, except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item.A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in detail below.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

John Kaperick

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address
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7600 Sand Point Way N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
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Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
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Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: NESTS (Nest Points)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington
Publisher:
NOAA's Ocean Service, Office of Response and Restoration (OR&R),

Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for gulls and terns in Mississippi. 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 Mississippi. 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 Mississippi ESI database, for additional bird information.

Purpose:

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

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Currentness_Reference:

The data were compiled during 2008 - 2009. The currentness date for this data is 2009 and is documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-89.75000

East_Bounding_Coordinate:

-88.37500

North_Bounding_Coordinate:

30.50000

South_Bounding_Coordinate:

30.12500

Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Nest
Theme_Keyword:
Bird
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but

does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00. Program_Affiliation: Program_Name: National Ocean Service Data Explorer

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of expert knowledge, survey data, and maps on bird nesting and other spatial/temporal concentration areas. See also the BIRDS data layer, part of the larger Mississippi ESI database, for additional bird information. These data do not necessarily represent all nest occurrences in Mississippi. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 86, Least tern, Sternula antillarum; 133, Black skimmer, Rynchops niger; 134, Gull-billed tern, Gelochelidon nilotica; 135, Sandwich tern, Thalasseus sandvicensis; 137, Royal tern, Thalasseus maximus.

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:
G.HOPKINS, NATIONAL PARK SERVICE
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
NESTS INFORMATION
Process_Step:
Process_Description:
Two main sources of data were used to depict nest distribution and seasonality for this data layer: 1) personal interviews with resource experts from the National Park Service - Gulf Islands National Seashore (GINS) and 2) numerous published and unpublished reports.The above digital and/or hardcopy sources were compiled by the project biologist to create the NESTS data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to

the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the NESTS data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
200912

Process_Contact:
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Jill Petersen
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Seattle
State_or_Province:
Washington
Postal_Code:
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(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
3

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Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution:
0.0000001
Longitude_Resolution:

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
NESTS.PAT
Entity_Type_Definition:
The NESTS.PAT table contains attribute information for the vector points in this data set representing bird nesting sites. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ID
Attribute_Definition:
An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (5), and record number. ID values of 9999 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
2320500001
Range_Domain_Maximum:
2320500003
Attribute:
Attribute_Label:
RARNUM
Attribute_Definition:
An identifier that links directly to the BIORES table or the flat format

BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
232000015

Range_Domain_Maximum:
232000016

Detailed_Description:

Entity_Type:

Entity_Type_Label:
BIO_LUT

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
RARNUM

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
232000001

Range_Domain_Maximum:
232000219

Attribute:

Attribute_Label:
ID

Attribute_Definition:
An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (5), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:
Range_Domain_Minimum:
2320100002
Range_Domain_Maximum:
2320902443

Detailed_Description:
Entity_Type:
Entity_Type_Label:
BIORES
Entity_Type_Definition:
The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
RARNUM
Attribute_Definition:
An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000219
Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
CONC

Attribute_Definition:
The field CONC refers to "concentration," abundance, or density values, and may contain counts of a species at a particular location. No quantitative or qualitative information on concentrations of bird nests was available, so this field is populated with "-".
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

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

Attribute:
Attribute_Label:
S_SOURCE
Attribute_Definition:
Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:

1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine mammals
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:
SPECIES

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
1

Range_Domain_Maximum:
N

Attribute:

Attribute_Label:
NAME

Attribute_Definition:
Species common name for the entire ESI data set.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
GEN_SPEC

Attribute_Definition:
Species scientific name for the entire ESI data set.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

alligator

Enumerated_Domain_Value_Definition:

Alligator

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

amphibian

Enumerated_Domain_Value_Definition:

Amphibian

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

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:
bivalve
Enumerated_Domain_Value_Definition:
Bivalve
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:
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:
freshwater
Enumerated_Domain_Value_Definition:
Freshwater fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
pelagic
Enumerated_Domain_Value_Definition:
Pelagic bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
raptor
Enumerated_Domain_Value_Definition:
Raptor
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sav
Enumerated_Domain_Value_Definition:
Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shorebird

Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NHP

Attribute_Definition:

Natural Heritage Program global ranking.

Attribute_Definition_Source:

Network of Natural Heritage Program

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name:

NHP Global Conservation Status Rank

Codeset_Source:

Natural Heritage Program

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:
Entity_Type:
Entity_Type_Label:
SEASONAL
Entity_Type_Definition:
The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:

Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

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

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

Attribute:
Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:

NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

OCT

Attribute_Definition:

October

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in October

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIORES and BREED data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:
Entity_Type:
Entity_Type_Label:
BREED
Entity_Type_Definition:
The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIORES and SEASONAL data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
MONTH

Attribute_Definition:
Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
12

Attribute:
Attribute_Label:
BREED1
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
BREED2
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED3
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED4
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED5
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:

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

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:

Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
I
Attribute_Definition:
International threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C

Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
S_DATE
Attribute_Definition:
Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
F_DATE
Attribute_Definition:
Publication date of source material used to assign federal status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I_DATE
Attribute_Definition:
Publication date of source material used to assign international status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, six relational attribute or data tables, BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS, are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, NESTS) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the Mississippi atlas, the number is 232), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described 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.Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files described below to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described below, except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item.A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships

between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in detail below.

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

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Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
John Kaperick
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.
Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA

Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
- *Metadata_Date*:
  - 20100512
- *Metadata_Review_Date*:
  - 20100512
- *Metadata_Contact*:
  - *Contact_Information*:
    - *Contact_Person_Primary*:
      - *Contact_Person*:
        - Jill Petersen
      - *Contact_Organization*:
        - NOAA, Office of Response and Restoration
    - *Contact_Position*:
      - GIS Manager
    - *Contact_Address*:
      - *Address_Type*:
        - Physical Address
      - *Address*:
        - 7600 Sand Point Way, N.E.
      - *City*:
        - Seattle
      - *State_or_Province*:
        - Washington
      - *Postal_Code*:
        - 98115-6349
    - *Contact_Voice_Telephone*:
      - (206) 526-6944
    - *Contact_Facsimile_Telephone*:
      - (206) 526-6329
    - *Contact_Electronic_Mail_Address*:
      - Jill.Petersen@noaa.gov
- *Metadata_Standard_Name*:
  - Content Standards for Digital Geospatial Metadata
- *Metadata_Standard_Version*:
  - FGDC-STD-001-1998
- *Metadata_Extensions*:
  - *Online_Linkage*:
    - http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
  - *Profile_Name*:
    - Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: FISH (Fish Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington
Publisher:
NOAA's Ocean Service, Office of Response and Restoration (OR&R),

Emergency Response Division (ERD).

Other_Citation_Details:

Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for marine, estuarine, anadromous, and brackish water fish species in Mississippi. Vector polygons in this data set represent fish distribution and nursery 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 Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

Purpose:

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

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1997

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008 - 2009. The currentness dates for this data range from 1997 to 2009 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-89.75000

East_Bounding_Coordinate:

-88.37500

North_Bounding_Coordinate:

30.50000

South_Bounding_Coordinate:
30.12500

Keywords:

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

Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Fish

Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring

Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi

Access_Constraints:
None

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but

does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC)

process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of expert knowledge, survey data, and hardcopy reports for fish distribution and nursery areas. These data do not necessarily represent all fish occurrences in Mississippi. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 65, Bluefish, Pomatomus saltatrix; 76, Alligator gar, Lepisosteus spatula; 102, Atlantic sturgeon, Acipenser oxyrinchus; 103, Threadfin shad, Dorosoma petenense; 104, Striped bass, Morone saxatilis; 107, Spotted seatrout, Cynoscion nebulosus; 109, Red drum, Sciaenops ocellatus; 111, Southern flounder, Paralichthys lethostigma; 112, Gulf flounder, Paralichthys albigutta; 113, Bay anchovy, Anchoa mitchilli; 114, Florida pompano, Trachinotus carolinus; 116, Striped mullet, Mugil cephalus; 117, Pinfish, Lagodon rhomboides; 119, Silver perch, Bairdiella chrysoura; 120, Pigfish, Orthopristis chrysoptera; 121, Spot, Leiostomus xanthurus; 122, Black drum, Pogonias cromis; 123, Atlantic croaker, Micropogonias undulatus; 124, Southern kingfish, Menticirrhus americanus; 126, King mackerel, Scomberomorus cavalla; 127, Spanish mackerel, Scomberomorus maculatus; 128, Blue runner, Caranx crysos; 129, Atlantic thread herring, Opisthonema oglinum; 130, Scaled sardine, Harengula jaguana; 134, Cobia, Rachycentron canadum; 137, Sheepshead, Archosargus probatocephalus; 140, Ladyfish, Elops saurus; 142, Crevalle jack, Caranx hippos; 143, Tarpon, Megalops atlanticus; 153, Northern kingfish, Menticirrhus saxatilis; 163, Gizzard shad, Dorosoma cepedianum; 173, White mullet, Mugil curema; 179, Largemouth bass, Micropterus salmoides; 182, Bluegill, Lepomis macrochirus; 200, Blue catfish, Ictalurus furcatus;

201, Channel catfish, Ictalurus punctatus; 204, Redear sunfish, Lepomis microlophus; 206, Spotted sunfish, Lepomis punctatus; 213, Gulf menhaden, Brevoortia patronus; 214, Gulf kingfish, Menticirrhus littoralis; 215, Sand seatrout, Cynoscion arenarius; 217, Gafftopsail catfish, Bagre marinus; 243, Longear sunfish, Lepomis megalotis; 268, Silver seatrout, Cynoscion nothus; 269, Gulf killifish, Fundulus grandis; 270, Longnose killifish, Fundulus similis; 271, Inland silverside, Menidia beryllina; 273, Star drum, Stellifer lanceolatus; 274, Sheepshead minnow, Cyprinodon variegatus; 278, Little tunny, Euthynnus alletteratus; 281, Seatrout, Cynoscion sp.; 287, Hardhead catfish, Arius felis; 289, Skipjack herring, Alosa chrysochloris; 290, Striped anchovy, Anchoa hepsetus; 291, Shiners, Notropis spp.; 293, Southern hake, Urophycis floridana; 294, Spotted hake, Urophycis regia; 295, Halfbeak, Hyporhamphus unifasciatus; 297, Marsh killifish, Fundulus confluentus; 298, Saltmarsh topminnow, Fundulus jenkinsi; 299, Rainwater killifish, Lucania parva; 300, Sailfin molly, Poecilia latipinna; 301, Rough silverside, Membras martinica; 302, Gag, Mycteroperca microlepis; 304, Rough scad, Trachurus lathami; 305, Red snapper, Lutjanus campechanus; 306, Gray snapper, Lutjanus griseus; 307, Lane snapper, Lutjanus synagris; 308, Rock sea bass, Centropristis philadelphica; 309, Spotfin mojarra, Eucinostomus argenteus; 310, Atlantic spadefish, Chaetodipterus faber; 312, Harvestfish, Peprilus alepidotus; 313, Gulf butterfish, Peprilus burti; 315, Blacktip shark, Carcharhinus limbatus; 316, Spinner shark, Carcharhinus brevipinna; 317, Bull shark, Carcharhinus leucas; 318, Atlantic sharpnose shark, Rhizoprionodon terraenovae; 319, Gulf sturgeon, Acipenser oxyrinchus desotoi; 336, Pearl darter, Percina aurora; 1144, Blackmouth shiner, Notropis melanostomus.

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:

D. DRENNAN, U.S. FISH AND WILDLIFE SERVICE

Publication_Date:

2009

Title:

ABUNDANCE AND DISTRIBUTION DATA FOR THREATENED AND ENDANGERED FISH
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
K. BRUNKE, MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2009
Title:
ABUNDANCE AND DISTRIBUTION DATA FOR WATERFOWL
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:
Source_Citation:

Citation_Information:
Originator:
M.BRAINARD, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2009
Title:
ABUNDANCE AND DISTRIBUTION DATA FOR FISH AND INVERTEBRATES IN MISSISSIPPI COASTAL WATERS
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
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UNPUBLISHED
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Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
M.S. PETERSON, G.L. FULLING, AND C.M. WOODLEY
Publication_Date:
2003
Title:
STATUS AND HABITAT CHARACTERISTICS OF THE SALTMARSH TOPMINNOW, FUNDULUS JENKINSI, IN EASTERN MISSISSIPPI AND WESTERN ALABAMA COASTAL BAYOUS
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Publication_Information:
Publication_Place:
JACKSON, MISSISSIPPI
Publisher:
UNIVERSITY OF SOUTHERN MISSISSIPPI
Other_Citation_Details:
GULF AND CARIBBEAN RESEARCH VOL 15, 51-59
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:
NOAA
Publication_Date:
1997
Title:
DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN GULF OF MEXICO ESTUARIES VOLUME II: SPECIES LIFE HISTORY SUMMARIES
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Publication_Information:
Publication_Place:
SILVER SPRING, MARYLAND
Publisher:
NOAA/NATIONAL OCEAN SERVICE STRATEGIC ENVIRONMENTAL ASSESSMENT DIVISION
Other_Citation_Details:
ELMR REPORT NO. 11, NOAA/NOS STRATEGIC ENVIRONMENTAL ASSESSMENT DIVISION, SILVER SPRING, MD
Type_of_Source_Media:
paper
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
1997
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:

Source_Citation:
Citation_Information:
Originator:
NOAA, NATIONAL MARINE FISHERIES SERVICE
Publication_Date:
2009
Title:
SPECIES OF CONCERN: SALTMARSH TOPMINNOW
Geospatial_Data_Presentation_Form:
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Publication_Information:
Publication_Place:
SILVER SPRING, MARYLAND
Publisher:
NMFS
Other_Citation_Details:
NMFS, NOAA, U.S.DEPT OF COMMERCE
Online_Linkage:
http://www.nmfs.noaa.gov/pr/pdfs/species/saltmarshtopminnow_highlights.pdf
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
R.J. HEISE, W.T. SLACK, S.T. ROSS, M.A. DUGO
Publication_Date:
2005
Title:
GULF STURGEON SUMMER HABITAT USE AND FALL MIGRATION IN THE PASCAGOULA RIVER, MISSISSIPPI, USA
Geospatial_Data_Presentation_Form:
document
Publication_Information:
Publication_Place:
HOBOKEN, NEW JERSEY

Publisher:
WILEY-BLACKWELL
Other_Citation_Details:
J. APPLIED ICHTHYOL 21: 461-468
Type_of_Source_Media:
EMAIL
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:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
S.T.ROSS, W.T. SLACK, R.J. HEISE, M.A. DUGO, H. ROGILLIO, B.R. BOWEN, P. MICKLE, R.W. HEARD
Publication_Date:
2009
Title:
ESTUARINE AND COASTAL HABITAT USE OF GULF STURGEON (ACIPENSER OXYRINCHUS DESOTOI) IN THE NORTH-CENTRAL GULF OF MEXICO
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Publication_Information:
Publication_Place:
NEW YORK
Publisher:
SPRINGER NEW YORK
Other_Citation_Details:
ESTUARIES AND COASTS 32: 360-374
Online_Linkage:
http://www.springerlink.com/content/120846/
Type_of_Source_Media:
EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
T. MANN, MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE DATA FOR REPTILES IN MISSISSIPPI
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Process_Step:
Process_Description:
Two main sources of data were used to depict fish distribution and seasonality for this data layer: 1) personal interviews with resource experts from Mississippi Department of Marine Resources, National Park Service, and Mississippi Department of Wildlife, Fisheries, and Parks, and 2) numerous published and unpublished reports.The above digital and/or hardcopy sources were compiled by the project biologist to create the FISH data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the

participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the FISH data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
667
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
667
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain

Point_and_Vector_Object_Count:
1348
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
229380
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
1189

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
FISH.PAT
Entity_Type_Definition:
The FISH.PAT table contains attribute information for the vector polygons in this data set representing fish distribution and nursery areas. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:

Attribute_Label:
ID
Attribute_Definition:
An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (2), and record number. ID values of 9999 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
2320200002
Range_Domain_Maximum:
2320200667

Attribute:
Attribute_Label:
RARNUM
Attribute_Definition:
An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000107
Range_Domain_Maximum:
232000134

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

Attribute:
Attribute_Label:
RARNUM
Attribute_Definition:
An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM

values of 0 are holes in polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000219

Attribute:
Attribute_Label:
ID

Attribute_Definition:
An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (2), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
2320100002
Range_Domain_Maximum:
2320902443

Detailed_Description:
Entity_Type:
Entity_Type_Label:
BIORES

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
RARNUM

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:

232000001
Range_Domain_Maximum:
232000219
Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
CONC
Attribute_Definition:
The field CONC refers to "concentration," abundance, or density values of a species at a particular location. No quantitative data was available for fish, so the concentration field may contain descriptive terms such as "COMMON". If no concentration information was available from any source, the field is populated with "-".
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
G_SOURCE
Attribute_Definition:

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
S_SOURCE

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
ELEMENT

Attribute_Definition:
Major categories of biological data.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORES data table to records in the SPECIES and STATUS data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
NAME
Attribute_Definition:
Species common name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
GEN_SPEC
Attribute_Definition:
Species scientific name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SUBELEMENT
Attribute_Definition:
Element subgroup delineating a logical grouping of species.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
alligator

Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
amphibian
Enumerated_Domain_Value_Definition:
Amphibian
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
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:
bivalve
Enumerated_Domain_Value_Definition:
Bivalve
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:
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:
freshwater
Enumerated_Domain_Value_Definition:
Freshwater fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
pelagic
Enumerated_Domain_Value_Definition:
Pelagic bird
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

raptor

Enumerated_Domain_Value_Definition:

Raptor

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

sav

Enumerated_Domain_Value_Definition:

Submerged aquatic vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

shorebird

Enumerated_Domain_Value_Definition:

Shorebird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

shrimp

Enumerated_Domain_Value_Definition:

Shrimp

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

sm_mammal

Enumerated_Domain_Value_Definition:

Small mammal

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

snake

Enumerated_Domain_Value_Definition:

Snake

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:
Waterfowl
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NHP
Attribute_Definition:
Natural Heritage Program global ranking.
Attribute_Definition_Source:
Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
NHP Global Conservation Status Rank
Codeset_Source:
Natural Heritage Program
Attribute:
Attribute_Label:
DATE_PUB
Attribute_Definition:
Date of NHP listing.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

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

Attribute:
Attribute_Label:
FEB
Attribute_Definition:
February
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in February
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
MAY
Attribute_Definition:

May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BREED

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED2
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
BREED3
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
BREED4

Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED5
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
STATUS
Entity_Type_Definition:
The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T

Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
I
Attribute_Definition:
International threatened or endangered status.
Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

S_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I_DATE
Attribute_Definition:
Publication date of source material used to assign international status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Detailed_Description:
Entity_Type:
Entity_Type_Label:
SOURCES
Entity_Type_Definition:
The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-

relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables, BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS, are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, FISH) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the Mississippi atlas, the number is 232), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described 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.Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files described below to ease simple data queries. The items in the flat file are ELEMENT,

SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described below, except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item.A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in detail below.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

John Kaperick

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

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City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.
Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Position:
GIS Manager
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:

98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov
Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: INVERT (Invertebrate Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains sensitive biological resource data for marine, estuarine, and brackish water invertebrate species in Mississippi. Vector polygons in this data set represent invertebrate distribution and concentration areas. Species specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer.This data set comprises a portion of the ESI data for Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

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

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:
1997

Ending_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness dates for this data range from 1997 to 2009 and are documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:
-88.37500

North_Bounding_Coordinate:
30.50000
South_Bounding_Coordinate:
30.12500
Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Invertebrate
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place

of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, and digital data on invertebrate distribution and concentration areas. These data do not necessarily represent all invertebrate occurrences in Mississippi. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 4, Pink shrimp, Penaeus duorarum; 43, Eastern oyster, Crassostrea virginica; 44, Horseshoe crab, Limulus polyphemus; 49, Blue crab, Callinectes sapidus; 50, White shrimp, Penaeus setiferus; 51, Brown shrimp, Penaeus aztecus; 74, Stone crab, Menippe spp.; 82, Atlantic rangia, Rangia cuneata; 600, Bristled river shrimp, Macrobrachium olfersii.

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*:
        - G.HOPKINS, NATIONAL PARK SERVICE
      - *Publication_Date*:
        - 2009
      - *Title*:
        - DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS
      - *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*:
          - 2009
    - *Source_Currentness_Reference*:
      - DATE OF COMMUNICATION
  - *Source_Citation_Abbreviation*:
    - NONE
  - *Source_Contribution*:
    - INVERT INFORMATION
- *Source_Information*:
  - *Source_Citation*:
    - *Citation_Information*:
      - *Originator*:
        - M. WOODREY, MISSISSIPPI STATE UNIVERSITY
      - *Publication_Date*:
        - 2009
      - *Title*:
        - DISTRIBUTION AND ABUNDANCE OF COASTAL RESOURCES
      - *Geospatial_Data_Presentation_Form*:
        - EXPERT KNOWLEDGE
      - *Other_Citation_Details*:
        - UNPUBLISHED

Type_of_Source_Media:
PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
M.BRAINARD, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2009
Title:
ABUNDANCE AND DISTRIBUTION DATA FOR FISH AND INVERTEBRATES IN MISSISSIPPI COASTAL WATERS
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2004

Title:
COMMERCIAL OYSTER BEDS
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:
2004
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
NOAA
Publication_Date:
1997
Title:
DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN GULF OF MEXICO ESTUARIES VOLUME II: SPECIES LIFE HISTORY SUMMARIES
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Publication_Information:
Publication_Place:
SILVER SPRING, MARYLAND
Publisher:
NOAA/NATIONAL OCEAN SERVICE STRATEGIC ENVIRONMENTAL ASSESSMENT DIVISION
Other_Citation_Details:
ELMR REPORT NO. 11, NOAA/NOS STRATEGIC ENVIRONMENTAL ASSESSMENT DIVISION, SILVER SPRING, MD
Type_of_Source_Media:
paper
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
1997

Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
T. MANN, MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE DATA FOR REPTILES IN MISSISSIPPI
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:
2009
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 Mississippi Department of Marine Resources (MDMR) and 2) digital data on commercial oyster beds provided by MDMR, and 3) numerous published and unpublished reports.The above digital and/or hardcopy sources were compiled by the project biologist to create the INVERT data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source

data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the INVERT data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
675
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
675
SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
1276
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
234448
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
1161

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
INVERT.PAT
Entity_Type_Definition:
The INVERT.PAT table contains attribute information for the vector polygons in this data set representing invertebrate distribution and concentration areas. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.
Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (7), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2320700002

Range_Domain_Maximum:

2320700681

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000139

Range_Domain_Maximum:

232000152

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
232000001

Range_Domain_Maximum:
232000219

Attribute:

Attribute_Label:
ID

Attribute_Definition:
An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (7), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
2320100002

Range_Domain_Maximum:
2320902443

Detailed_Description:

Entity_Type:

Entity_Type_Label:
BIORES

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
RARNUM

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000219

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
CONC
Attribute_Definition:
The field CONC refers to "concentration," abundance, or density values, and may contain counts of a species at a particular location. No quantitative or qualitative information on concentrations of invertebrates was available, so this field is populated with "-".
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
G_SOURCE

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

Attribute:
Attribute_Label:
S_SOURCE
Attribute_Definition:
Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in the BIORES data table to records in the SPECIES and STATUS data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:
Entity_Type:
Entity_Type_Label:
SPECIES
Entity_Type_Definition:
The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness Report for list of layer specific species.
Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
NAME
Attribute_Definition:
Species common name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
GEN_SPEC
Attribute_Definition:
Species scientific name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SUBELEMENT
Attribute_Definition:
Element subgroup delineating a logical grouping of species.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

alligator
Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
amphibian
Enumerated_Domain_Value_Definition:
Amphibian
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
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:
bivalve
Enumerated_Domain_Value_Definition:
Bivalve
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:
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:
freshwater
Enumerated_Domain_Value_Definition:
Freshwater fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:

Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
pelagic
Enumerated_Domain_Value_Definition:
Pelagic bird

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
raptor
Enumerated_Domain_Value_Definition:
Raptor
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sav
Enumerated_Domain_Value_Definition:
Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shorebird
Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

turtle

Enumerated_Domain_Value_Definition:

Turtle

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

waterfowl

Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NHP

Attribute_Definition:

Natural Heritage Program global ranking.

Attribute_Definition_Source:

Network of Natural Heritage Program

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name:

NHP Global Conservation Status Rank

Codeset_Source:

Natural Heritage Program

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
0
Enumerated_Domain_Value_Definition:
Date unspecified
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
SEASONAL
Entity_Type_Definition:
The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

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

NOAA ESI Guidelines

Attribute:

Attribute_Label:

FEB

Attribute_Definition:

February

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in February

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAR

Attribute_Definition:

March

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in March

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

APR

Attribute_Definition:

April

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in April

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAY

Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X

Enumerated_Domain_Value_Definition:
Present in November
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
DEC
Attribute_Definition:
December
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in December
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIORES and BREED data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
BREED
Entity_Type_Definition:
The data table BREED identifies the monthly presence of certain life-history stages or activities for each species at a given location.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:

Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BREED data table to records in the BIORES and SEASONAL data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
MONTH
Attribute_Definition:
Two-digit calendar month. Each life history stage or activity type for a particular species can have up to 12 records to account for each month of the year.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
12

Attribute:
Attribute_Label:
BREED1
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED1 = nesting; if ELEMENT is "FISH" then BREED1 = spawning; if ELEMENT is "INVERT" then BREED1 = spawning; if ELEMENT is "REPTILE" then BREED1 = nesting; if ELEMENT is "M_MAMMAL" then BREED1 = mating. This attribute is not used for HABITAT or T_MAMMAL.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED2
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED3

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
STATUS
Entity_Type_Definition:
The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SPECIES_ID

Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
I
Attribute_Definition:
International threatened or endangered status.

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
S_DATE
Attribute_Definition:
Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F_DATE
Attribute_Definition:
Publication date of source material used to assign federal status values for each species, if used.
Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:

The data table SOURCES contains the primary sources used to create the

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

Overview_Description:
Entity_and_Attribute_Overview:
In addition to the geographic data layers, six relational attribute or data tables, BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS, are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, INVERT) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the Mississippi atlas, the number is 232), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described 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.Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files described

below to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described below, except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item.A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in detail below.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

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Contact_Person_Primary:

Contact_Person:

John Kaperick

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NOAA, Office of Response and Restoration

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City:

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State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.
Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Position:
GIS Manager
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Address_Type:
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Address:
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Seattle
State_or_Province:
Washington

Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
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(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov
Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: REPTILES (Reptile Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains sensitive biological resource data for sea turtles, estuarine turtles, and gopher tortoise in Mississippi. Vector polygons in this data set represent turtle distribution, nesting areas, and potential burrow locations. 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 Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

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

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:
2005

Ending_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness dates for this data range from 2005 to 2009 and are documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:
-88.37500

North_Bounding_Coordinate:
30.50000
South_Bounding_Coordinate:
30.12500
Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Reptile
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place

of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, maps, and digital data on turtle distribution, nesting areas, and burrow locations. These data do not necessarily represent all reptile occurrences in Mississippi. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 3, American alligator, Alligator mississippiensis; 4, Kemp's ridley sea turtle, Lepidochelys kempii; 5, Leatherback sea turtle, Dermochelys coriacea; 6, Loggerhead sea turtle, Caretta caretta; 7, Diamondback terrapin, Malaclemys terrapin; 9, Hawksbill sea turtle, Eretmochelys imbricata; 12, Gulf salt marsh snake, Nerodia clarkii clarkii; 19, Alabama red-bellied turtle, Pseudemys alabamensis; 21, Gopher tortoise, Gopherus polyphemus; 22, Yellow-blotched map turtle, Graptemys flavimaculata; 180, Alligator snapping turtle, Macrochelys temminckii; 193, One-toed amphiuma, Amphiuma pholeter; 194, Ringed map turtle, Graptemys oculifera.

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*:
        - G.HOPKINS, NATIONAL PARK SERVICE
      - *Publication_Date*:
        - 2009
      - *Title*:
        - DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS
      - *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*:
          - 2009
    - *Source_Currentness_Reference*:
      - DATE OF COMMUNICATION
  - *Source_Citation_Abbreviation*:
    - NONE
  - *Source_Contribution*:
    - REPTILES INFORMATION
- *Source_Information*:
  - *Source_Citation*:
    - *Citation_Information*:
      - *Originator*:
        - J. CLARK, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
      - *Publication_Date*:
        - 2009
      - *Title*:
        - ABUNDANCE AND DISTRIBUTION DATA FOR

WILDLIFE RESOURCES
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
REPTILES INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
L.LACLAIRE, U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
2009
Title:
DISTRIBUTION OF THREATENED AND ENDANGERED SPECIES IN MISSISSIPPI
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
REPTILES INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:

T. MANN, MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE DATA FOR REPTILES IN MISSISSIPPI
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
REPTILES INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
2008
Title:
HERPS OF GRAND BAY NATIONAL WILDLIFE REFUGE
Geospatial_Data_Presentation_Form:
tabular digital data
Online_Linkage:
http://www.fws.gov/grandbay/herps.html
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2008
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE

Publication_Date:

2009

Title:

GOPHER TORTOISE SOIL CLASSIFICATION

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

JACKSON, MISSISSIPPI

Publisher:

U.S. FISH AND WILDLIFE SERVICES

Other_Citation_Details:

USFWS, JACKSON FIELD OFFICE

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:

REPTILES INFORMATION

Process_Step:

Process_Description:

Three main sources of data were used to depict reptile distribution and seasonality for this data layer: 1) personal interviews with resource experts from the U.S. Fish and Wildlife Service (USFWS) National Park Service - Gulf Islands National Seashore (GINS), Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP), and Mississippi Department of Marine Resources (MDMR) 2) digital soils data provided by USFWS for gopher tortoise burrows, and 3) numerous published and unpublished reports.The above digital and/or hardcopy sources were compiled by the project biologist to create the REPTILES data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional

information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the REPTILES data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
5331
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
5331

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
10525
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
667445
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
8100

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
REPTILES.PAT
Entity_Type_Definition:
The REPTILES.PAT table contains attribute information for the vector polygons in this data set representing turtle distribution, nesting areas, and potential burrow locations. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
ID
Attribute_Definition:
An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (6), and record number. ID values of 9999 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
2320600002
Range_Domain_Maximum:
2320606006

Attribute:
Attribute_Label:
RARNUM
Attribute_Definition:
An identifier that links directly to the BIORES table or the flat format BIOFILE table. RARNUM values of 0 are holes in the polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000157
Range_Domain_Maximum:
232000212

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

Attribute:
Attribute_Label:
RARNUM

Attribute_Definition:
An identifier that links records in the BIO_LUT data table to records in the BIORES data table or the flat format BIOFILE data table. RARNUM values of 0 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000219
Attribute:
Attribute_Label:
ID
Attribute_Definition:
An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (6), and record number. ID values of 9999 are holes in polygons and do not contain information.
Attribute_Definition_Source:
NOAA
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
2320100002
Range_Domain_Maximum:
2320902443
Detailed_Description:
Entity_Type:
Entity_Type_Label:
BIORES
Entity_Type_Definition:
The data table BIORES contains both biological attribute data and items necessary for linking vector objects in the biological data layers via the BIO_LUT data table to other associated data tables. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
RARNUM
Attribute_Definition:
An identifier that links records in the BIORES data table to records in the BIO_LUT data table or the flat format BIOFILE data table.
Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000219

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
CONC
Attribute_Definition:
The field CONC refers to "concentration," abundance, or density values, and may contain counts of a species at a particular location. No quantitative count data were available for reptiles and amphibians, so the field may contain descriptive terms, such as "LOW", "LOW-PROBABILITY", or "MED-HIGH-PROBABILITY" to describe the relative abundance of particular species at specific locations. In cases where no concentration information was available from any source, the field is populated with "-".
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1

Range_Domain_Maximum:
N

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

Attribute:
Attribute_Label:
S_SOURCE
Attribute_Definition:
Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH

Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in

the BIORES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
E#####

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
EL_SPE_SEA

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
E#######

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:
SPECIES

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
NAME
Attribute_Definition:
Species common name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
GEN_SPEC
Attribute_Definition:
Species scientific name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH

Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SUBELEMENT
Attribute_Definition:
Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
alligator
Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
amphibian
Enumerated_Domain_Value_Definition:
Amphibian
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
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:
bivalve
Enumerated_Domain_Value_Definition:
Bivalve
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:
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:
freshwater
Enumerated_Domain_Value_Definition:
Freshwater fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
pelagic
Enumerated_Domain_Value_Definition:
Pelagic bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
raptor
Enumerated_Domain_Value_Definition:
Raptor
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sav
Enumerated_Domain_Value_Definition:
Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shorebird
Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:
Waterfowl
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NHP
Attribute_Definition:
Natural Heritage Program global ranking.
Attribute_Definition_Source:
Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
NHP Global Conservation Status Rank
Codeset_Source:
Natural Heritage Program
Attribute:
Attribute_Label:
DATE_PUB
Attribute_Definition:
Date of NHP listing.
Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE

Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
JAN
Attribute_Definition:
January
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in January
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Attribute:
Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:

AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BREED

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED2
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED3
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in

question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
STATUS
Entity_Type_Definition:
The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:

Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I
Attribute_Definition:
International threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
S_DATE
Attribute_Definition:
Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:

F_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:
Entity_Type_Label:
SOURCES
Entity_Type_Definition:
The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SOURCE_ID
Attribute_Definition:
Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables, BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS, are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, REPTILES) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the Mississippi atlas, the number is 232), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described 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.Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files described below to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described below, except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item.A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in detail below.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

John Kaperick

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.
Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Position:
GIS Manager
Contact_Address:
Address_Type:
Physical Address
Address:

7600 Sand Point Way, N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:

98115-6349

Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

(206) 526-6329

Contact_Electronic_Mail_Address:

Jill.Petersen@noaa.gov

Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage:

http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf

Profile_Name:

Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: M_MAMMAL (Marine Mammal Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains sensitive biological resource data for dolphin and manatees in Mississippi. Vector polygons in this data set represent marine mammal distribution and concentration areas. Species specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer.This data set comprises a portion of the ESI data for Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

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

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness date for this data is 2009 and is documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:
-88.37500

North_Bounding_Coordinate:
30.50000

South_Bounding_Coordinate:
30.12500

Keywords:

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

Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Marine Mammal

Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring

Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi

Access_Constraints:
None

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but

does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC)

process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of expert knowledge, available hardcopy documents, survey data, and maps on marine mammal distribution and concentration areas. These data do not necessarily represent all marine mammal occurrences in Mississippi. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 10, West Indian manatee, Trichechus manatus; 17, Bottlenose dolphin, Tursiops truncatus; 21, Atlantic spotted dolphin, Stenella plagiodon.

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:
G.HOPKINS, NATIONAL PARK SERVICE
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
K. MULLIN, NATIONAL MARINE FISHERIES SERVICE
Publication_Date:
2009
Title:
ABUNDANCE AND DISTRIBUTION DATA FOR MARINE MAMMALS IN MISSISSIPPI WATERS
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:

Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
T. MANN, MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE DATA FOR REPTILES IN MISSISSIPPI
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
M_MAMMAL INFORMATION
Process_Step:
Process_Description:
Two main sources of data were used to depict marine mammal distribution and seasonality for this data layer: 1) personal interviews with resource experts from the National Park Service, Mississippi Department of Marine Resources, Dauphin Island Sea Lab, and National Marine Fisheries Service, and 2) numerous published and unpublished reports.The above digital and/or hardcopy sources were compiled by the project biologist to create the M_MAMMAL data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial interviews and from hardcopy sources are compiled onto U.S. Geological Survey 1:24,000 topographic quadrangles and digitized; 2) hardcopy maps are digitized at their source scale; 3) digital

data layers are evaluated and used "as is" or integrated with the hardcopy data sources. See the Lineage section for additional information on the type of source data for this data layer. The compiled ESI, biology, and human-use data are plotted onto hardcopy draft maps. Following the delivery of draft maps to the participating resource experts, a second set of interviews are conducted to review the maps. If necessary, edits to the M_MAMMAL data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
579
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:

579
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
1123
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
218176
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
1049

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
M_MAMMAL.PAT
Entity_Type_Definition:
The M_MAMMAL.PAT table contains attribute information for the vector polygons in this data set representing marine mammal distribution and concentration areas. Note that all attribute information is stored in a series of relational files, described below. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships

between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (4), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2320400002

Range_Domain_Maximum:

2320400600

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000153

Range_Domain_Maximum:

232000156

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000001

Range_Domain_Maximum:

232000219

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (4), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2320100002

Range_Domain_Maximum:

2320902443

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIORES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000001

Range_Domain_Maximum:

232000219

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

CONC

Attribute_Definition:

The field CONC refers to "concentration," abundance, or density values, and may contain counts of a species at a particular location. No quantitative or qualitative information on concentrations of marine mammals was available, so this field is populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

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

Attribute:
Attribute_Label:
S_SOURCE
Attribute_Definition:
Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the BIORES data table to records in the SEASONAL and BREED data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:
Entity_Type:
Entity_Type_Label:
SPECIES
Entity_Type_Definition:
The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness Report for list of layer specific species.
Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:

NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
NAME
Attribute_Definition:
Species common name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
GEN_SPEC
Attribute_Definition:
Species scientific name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SUBELEMENT
Attribute_Definition:
Element subgroup delineating a logical grouping of species.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
alligator
Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
amphibian
Enumerated_Domain_Value_Definition:
Amphibian
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
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:
bivalve
Enumerated_Domain_Value_Definition:
Bivalve
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:
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:
freshwater
Enumerated_Domain_Value_Definition:
Freshwater fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
pelagic

Enumerated_Domain_Value_Definition:
Pelagic bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
raptor
Enumerated_Domain_Value_Definition:
Raptor
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sav
Enumerated_Domain_Value_Definition:
Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shorebird
Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:

Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:
Waterfowl
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NHP
Attribute_Definition:
Natural Heritage Program global ranking.
Attribute_Definition_Source:
Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
NHP Global Conservation Status Rank
Codeset_Source:
Natural Heritage Program
Attribute:
Attribute_Label:
DATE_PUB
Attribute_Definition:
Date of NHP listing.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
0
Enumerated_Domain_Value_Definition:
Date unspecified
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in the SPECIES data table to records in the BIORES and STATUS data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT and the next five characters are SPECIES_ID (e.g. ELEMENT = 'BIRD' and SPECIES_ID = 1; EL_SPE = 'B00001').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
SEASONAL
Entity_Type_Definition:
The data table SEASONAL contains information on the seasonal presence of each species associated with each spatial vector object. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

JAN

Attribute_Definition:

January

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in January
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
FEB
Attribute_Definition:
February
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in February
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:

Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
AUG
Attribute_Definition:
August

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in November
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
DEC
Attribute_Definition:
December
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in December
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
EL_SPE_SEA
Attribute_Definition:
Concatenation of ELEMENT, SPECIES_ID, and SEASON_ID. This item links records in the SEASONAL data table to records in the BIORES and BREED data tables.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######
Enumerated_Domain_Value_Definition:
Where E is the first character of ELEMENT, the next five characters are SPECIES_ID, and the last two characters are SEASON_ID (e.g. ELEMENT = 'BIRD', SPECIES_ID = 1 and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED2
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED3
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
BREED4
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "FISH" then BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED5
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "FISH" then BREED5 = adults; if ELEMENT is "INVERT" then BREED5 = adults; if ELEMENT is "REPTILE" then BREED5 = adults. This attribute is not used for BIRD, M_MAMMAL, HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

STATUS

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:

Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
I

Attribute_Definition:
International threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
S_DATE
Attribute_Definition:
Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F_DATE
Attribute_Definition:
Publication date of source material used to assign federal status values for

each species, if used.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:
The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SOURCE_ID
Attribute_Definition:
Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables, BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS, are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, M_MAMMAL) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the Mississippi atlas, the number is 232), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described 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.Due to the complexity of the

relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files described below to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described below, except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item.A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in detail below.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

John Kaperick

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Address:

Address_Type:

Physical Address

Address:

7600 Sand Point Way N.E.

City:

Seattle

State_or_Province:

Washington

Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, no warranty, expressed or implied, is made by NOAA regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. NOAA warrants the delivery of this product in computer-readable format, and will offer a replacement copy of the product when the product is determined unreadable by computer input peripherals, or when the physical medium is delivered in damaged condition.
Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Position:
GIS Manager
Contact_Address:
Address_Type:
Physical Address
Address:
7600 Sand Point Way, N.E.
City:
Seattle

State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov
Metadata_Standard_Name:
Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version:
FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage:
http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf
Profile_Name:
Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: T_MAMMAL (Terrestrial Mammal Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains sensitive biological resource data for Louisiana black bear, Northern raccoon, river otter, rice rat, Eastern pipistrel, and muskrat in Mississippi. 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 Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

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

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness date for this data is 2009 and is documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:
-88.37500

North_Bounding_Coordinate:
30.50000

South_Bounding_Coordinate:
30.12500

Keywords:

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

Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Terrestrial Mammal

Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring

Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi

Access_Constraints:
None

Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but

does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a standardized data entry methodology, hardcopy data review by in-house and external resource experts, a final Quality Assurance/Quality Control (QA/QC)

process, and multiple automated logical consistency checks. Quantitative data (such as densities, counts, abundances, or concentrations) provided by resource experts for inclusion in the data set may vary widely in attribute accuracy, depending upon the methodology used to collect and compile such data. For a more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of expert knowledge and survey data on terrestrial mammal distribution. These data do not necessarily represent all terrestrial mammal occurrences in Mississippi. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 8, Northern river otter, Lontra canadensis; 37, Muskrat, Ondatra zibethicus; 44, Common raccoon, Procyon lotor; 102, Louisiana black bear, Ursus americanus luteolus; 266, Marsh oryzomys, Oryzomys palustris; 267, Eastern pipistrelle, Pipistrellus subflavus.

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:

B. YOUNG, MISSISSIPPI DEPARTMENT OF WILDLIFE FISHERIES AND PARKS

Publication_Date:

2009

Title:

DISTRIBUTION DATA FOR BLACK BEAR IN MISSISSIPPI

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:

2009

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

T_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

G.HOPKINS, NATIONAL PARK SERVICE

Publication_Date:

2009

Title:

DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS

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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
T_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
J. CLARK, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Publication_Date:
2009
Title:
ABUNDANCE AND DISTRIBUTION DATA FOR WILDLIFE RESOURCES
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
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 the Mississippi Department of Wildlife, Fisheries, and Parks, National Park Service - Gulf Island National Seashore (GINS), and U.S. Fish and Wildlife Service (USFWS) and 2) numerous published and unpublished reports.The above digital and/or hardcopy sources were compiled by the project biologist to create the T_MAMMAL data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered during initial

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

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
2332
SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
2332
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
3391
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
230375
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
2987

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
T_MAMMAL.PAT
Entity_Type_Definition:
The T_MAMMAL.PAT 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:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (9), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2320900002

Range_Domain_Maximum:

2320902443

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000213

Range_Domain_Maximum:

232000219

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000001

Range_Domain_Maximum:

232000219

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (9), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2320100002

Range_Domain_Maximum:

2320902443

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIORES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000219

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
CONC
Attribute_Definition:
The field CONC refers to "concentration," abundance, or density values, and may contain counts of a species at a particular location. No quantitative or qualitative information on concentrations of terrestrial mammals was available, so this field is populated with "-".
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1

Range_Domain_Maximum:
N

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

Attribute:
Attribute_Label:
S_SOURCE
Attribute_Definition:
Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH

Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in

the BIORES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#####

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
EL_SPE_SEA

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E#######

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:
Entity_Type:
Entity_Type_Label:
SPECIES

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
NAME
Attribute_Definition:
Species common name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
GEN_SPEC
Attribute_Definition:
Species scientific name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH

Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SUBELEMENT
Attribute_Definition:
Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
alligator
Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
amphibian
Enumerated_Domain_Value_Definition:
Amphibian
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
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:
bivalve
Enumerated_Domain_Value_Definition:
Bivalve
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:
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:
freshwater
Enumerated_Domain_Value_Definition:
Freshwater fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
pelagic
Enumerated_Domain_Value_Definition:
Pelagic bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
raptor
Enumerated_Domain_Value_Definition:
Raptor
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sav
Enumerated_Domain_Value_Definition:
Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shorebird
Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:
Waterfowl
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NHP
Attribute_Definition:
Natural Heritage Program global ranking.
Attribute_Definition_Source:
Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
NHP Global Conservation Status Rank
Codeset_Source:
Natural Heritage Program
Attribute:
Attribute_Label:
DATE_PUB
Attribute_Definition:
Date of NHP listing.
Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE

Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
JAN
Attribute_Definition:
January
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in January
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Attribute:
Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:

AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BREED

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED2
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED3
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in

question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
STATUS
Entity_Type_Definition:
The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:

Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I
Attribute_Definition:
International threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
S_DATE
Attribute_Definition:
Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:

F_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:
Entity_Type_Label:
SOURCES
Entity_Type_Definition:
The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SOURCE_ID
Attribute_Definition:
Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables, BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS, are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, T_MAMMAL) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the Mississippi atlas, the number is 232), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described 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.Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files described below to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described below, except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item.A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in detail below.

Entity_and_Attribute_Detail_Citation:

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

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Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

John Kaperick

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NOAA, Office of Response and Restoration

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State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6400
Contact_Facsimile_Telephone:
(206) 526-6329
Resource_Description:
Downloadable Data
Distribution_Liability:
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Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person:
Jill Petersen
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Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage:

http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf

Profile_Name:

Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator:
National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD)
Originator:
Department of Homeland Security (DHS)
Originator:
United States Coast Guard (USCG)
Originator:
Office of Incident Management and Preparedness (CG-533), Washington, D.C.
Publication_Date:
200912
Title:
Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Mississippi: HABITATS (Habitat Polygons)
Edition:
Second
Geospatial_Data_Presentation_Form:
vector digital data
Series_Information:
Series_Name:
None
Issue_Identification:
Mississippi
Publication_Information:
Publication_Place:
Seattle, Washington

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

Other_Citation_Details:
Prepared by Research Planning, Inc., Columbia, South Carolina for the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service, Office of Response and Restoration, Emergency Response Division, Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Online_Linkage:
http://response.restoration.noaa.gov/esi

Description:

Abstract:
This data set contains sensitive biological resource data for submerged aquatic vegetation (seagrass) and inshore/offshore artificial reefs in Mississippi. Vector polygons in this data set represent seagrass and artificial reef 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 Mississippi. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources.

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

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:
2005

Ending_Date:
2009

Currentness_Reference:
The data were compiled during 2008 - 2009. The currentness dates for this data range from 2005 to 2009 and are documented in the Lineage section.

Status:

Progress:
Complete

Maintenance_and_Update_Frequency:
None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:
-89.75000

East_Bounding_Coordinate:
-88.37500

North_Bounding_Coordinate:
30.50000
South_Bounding_Coordinate:
30.12500
Keywords:
Theme:
Theme_Keyword_Thesaurus:
ISO 19115 Topic Category
Theme_Keyword:
biota
Theme_Keyword:
environment
Theme:
Theme_Keyword_Thesaurus:
None
Theme_Keyword:
Environmental Monitoring
Theme_Keyword:
ESI
Theme_Keyword:
Sensitivity maps
Theme_Keyword:
Coastal resources
Theme_Keyword:
Oil spill planning
Theme_Keyword:
Coastal Zone Management
Theme_Keyword:
Wildlife
Theme_Keyword:
Habitat
Theme:
Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category
Theme_Keyword:
Environmental Monitoring
Place:
Place_Keyword_Thesaurus:
None
Place_Keyword:
Mississippi
Access_Constraints:
None
Use_Constraints:
DO NOT USE MAPS FOR NAVIGATIONAL PURPOSES. Besides the above warning, there are no use constraints on these data. Note that the ESI database should not be used to the exclusion of other pertinent data or information held by state or federal agencies or other organizations. Likewise, information contained in the database cannot be used in place of consultations with environmental, natural resource, and cultural resource agencies, or in place

of field surveys. Recognize that the information contained in the ESI database represents known concentration areas or occurrences of natural, cultural, and human-use resources, but does not necessarily represent the full distribution or range of each species or resource. This is particularly important to recognize when considering potential impacts to protected resources, such as endangered species, wetlands, etc. Acknowledgment of the originators, publishers, contributors, and sources listed would be appreciated in products derived from these data.

Browse_Graphic:

Browse_Graphic_File_Name:

datafig.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Browse_Graphic:

Browse_Graphic_File_Name:

datafig2.jpg

Browse_Graphic_File_Description:

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

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington and the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness (CG-533), Washington, D.C.

Native_Data_Set_Environment:

The software packages used to develop the atlas are Environmental Systems Research Institute's ARC/INFO(R) (version 9.3) and SQL SERVER(R) (version 2000). The hardware configuration is PC's with Windows Operating System (2000/XP/2003). The Spatial_Data_Organization Information section refers only to the source files in the ARC export format. The following files are included in the data set: birds.e00, esi.e00, fish.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, t_mammal.e00, and wetlands.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

A multi-stage error checking process is used to verify both attribute accuracy and logical consistency throughout data production. The process includes a

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

Logical_Consistency_Report:

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

Completeness_Report:

These data represent a synthesis of digital data on seagrass and artificial reef distribution. These data do not necessarily represent all habitat occurrences in Mississippi. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 85, Seagrass, 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:
C. MAY
Publication_Date:
2005
Title:
SEAGRASS2005
Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:
MOSS POINT, MISSISSIPPI
Publisher:
GRAND BAY NERR, MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Type_of_Source_Media:
EMAIL
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:
HABITATS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
G.HOPKINS, NATIONAL PARK SERVICE
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE OF BIOLOGICAL AND HUMAN USE RESOURCES ON GULF ISLANDS
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:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
HABITATS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
M. WOODREY, MISSISSIPPI STATE UNIVERSITY
Publication_Date:
2009
Title:
DISTRIBUTION AND ABUNDANCE OF COASTAL RESOURCES
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
HABITATS INFORMATION
Process_Step:
Process_Description:
Three main sources of data were used to depict habitat distribution and seasonality for this data layer: 1) personal communication with National Park Service - Gulf Islands National Seashore, 2) digital data depicting seagrass polygons from Grand Bay National Estuarine Research Reserve, and 3) digital data depicting artificial reef polygons from Mississippi Department of Marine Resources (MDMR).The above digital and/or hardcopy sources were compiled by the project biologist to create the HABITATS data layer. Depending on the type of source data, three general approaches are used for compiling the data layer: 1) information gathered

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

Process_Date:
200912

Process_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
NOAA, Office of Response and Restoration
Contact_Person:
Jill Petersen
Contact_Address:
Address_Type:
Physical address
Address:
7600 Sand Point Way, N.E.
City:
Seattle
State_or_Province:
Washington
Postal_Code:
98115-6349
Contact_Voice_Telephone:
(206) 526-6944
Contact_Facsimile_Telephone:
(206) 526-6329
Contact_Electronic_Mail_Address:
Jill.Petersen@noaa.gov

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Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method:
Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
GT-polygon composed of chains
Point_and_Vector_Object_Count:
28
SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
28
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
150
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
61250
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
148

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

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label:
HABITATS.PAT
Entity_Type_Definition:
The HABITATS.PAT table contains attribute information for the vector polygons in this data set representing seagrass and artificial reef

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:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (3), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2320300002

Range_Domain_Maximum:

2320300029

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000135

Range_Domain_Maximum:

232000138

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

232000001

Range_Domain_Maximum:

232000219

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (232), element number (3), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2320100002

Range_Domain_Maximum:

2320902443

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIORES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
232000001
Range_Domain_Maximum:
232000219

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. No quantitative or qualitative information on concentrations of seagrass was available, so this field is populated with "-".
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1

Range_Domain_Maximum:
N

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

Attribute:
Attribute_Label:
S_SOURCE
Attribute_Definition:
Seasonality source identifier that links records in the BIORES data table to records in the SOURCES data table.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH

Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
EL_SPE
Attribute_Definition:
Concatenation of ELEMENT and SPECIES_ID. This item links records in

the BIORES data table to records in the SPECIES and STATUS data tables.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
E#####

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
EL_SPE_SEA

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
E#######

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:
SPECIES

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
NAME
Attribute_Definition:
Species common name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
GEN_SPEC
Attribute_Definition:
Species scientific name for the entire ESI data set.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH

Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SUBELEMENT
Attribute_Definition:
Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
alligator
Enumerated_Domain_Value_Definition:
Alligator
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
amphibian
Enumerated_Domain_Value_Definition:
Amphibian
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
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:
bivalve
Enumerated_Domain_Value_Definition:
Bivalve
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:
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:
freshwater
Enumerated_Domain_Value_Definition:
Freshwater fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
gull_tern
Enumerated_Domain_Value_Definition:
Gull or tern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
invert
Enumerated_Domain_Value_Definition:
Invertebrate
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_benthic
Enumerated_Domain_Value_Definition:
Marine benthic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
m_pelagic
Enumerated_Domain_Value_Definition:
Marine pelagic fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
manatee
Enumerated_Domain_Value_Definition:
Manatee
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value:
pelagic
Enumerated_Domain_Value_Definition:
Pelagic bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
raptor
Enumerated_Domain_Value_Definition:
Raptor
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sav
Enumerated_Domain_Value_Definition:
Submerged aquatic vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shorebird
Enumerated_Domain_Value_Definition:
Shorebird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
shrimp
Enumerated_Domain_Value_Definition:
Shrimp
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
sm_mammal
Enumerated_Domain_Value_Definition:
Small mammal
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
snake
Enumerated_Domain_Value_Definition:
Snake
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
turtle
Enumerated_Domain_Value_Definition:
Turtle
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
wading
Enumerated_Domain_Value_Definition:
Wading bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
waterfowl
Enumerated_Domain_Value_Definition:
Waterfowl
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NHP
Attribute_Definition:
Natural Heritage Program global ranking.
Attribute_Definition_Source:
Network of Natural Heritage Program
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name:
NHP Global Conservation Status Rank
Codeset_Source:
Natural Heritage Program
Attribute:
Attribute_Label:
DATE_PUB
Attribute_Definition:
Date of NHP listing.
Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SEASONAL

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:
Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE

Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
SEASON_ID
Attribute_Definition:
Numeric identifier for the unique monthly presence and life history characteristics of each species at a given location.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N
Attribute:
Attribute_Label:
JAN
Attribute_Definition:
January
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in January
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Attribute:
Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in April

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:

AUG
Attribute_Definition:
August
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in August
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SEP
Attribute_Definition:
September
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in September
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
OCT
Attribute_Definition:
October
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in October
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
NOV
Attribute_Definition:
November
Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#######

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BREED

Entity_Type_Definition:

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
EL_SPE_SEA

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:
E#######

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MONTH

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
1

Range_Domain_Maximum:
12

Attribute:

Attribute_Label:
BREED1

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

Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED2
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED2 = migrating; if ELEMENT is "FISH" then BREED2 = eggs; if ELEMENT is "INVERT" then BREED2 = eggs; if ELEMENT is "REPTILE" then BREED2 = hatching; if ELEMENT is "M_MAMMAL" then BREED2 = calving. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
BREED3
Attribute_Definition:
Life history stage or activity type, where: if ELEMENT is "BIRD" then BREED3 = molting; if ELEMENT is "FISH" then BREED3 = larvae; if ELEMENT is "INVERT" then BREED3 = larvae; if ELEMENT is "REPTILE" then BREED3 = internesting; if ELEMENT is "M_MAMMAL" then BREED3 = pupping. This attribute is not used for HABITAT or T_MAMMAL elements.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in

question

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED4

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
Y
Enumerated_Domain_Value_Definition:
Life-history stage or activity present
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
N
Enumerated_Domain_Value_Definition:
Life-history stage or activity not present or not reported
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
-
Enumerated_Domain_Value_Definition:
Breed category not used or not appropriate for record(s) in question
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Detailed_Description:
Entity_Type:
Entity_Type_Label:
STATUS
Entity_Type_Definition:
The data table STATUS identifies the species that are listed as either threatened or endangered by a state, federal, or international authority. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
ELEMENT
Attribute_Definition:
Major categories of biological data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
BIRD
Enumerated_Domain_Value_Definition:

Birds
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISH
Enumerated_Domain_Value_Definition:
Fish
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
HABITAT
Enumerated_Domain_Value_Definition:
Habitats and Plants
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
INVERT
Enumerated_Domain_Value_Definition:
Invertebrates
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
M_MAMMAL
Enumerated_Domain_Value_Definition:
Marine Mammals
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
REPTILE
Enumerated_Domain_Value_Definition:
Reptiles and Amphibians
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T_MAMMAL
Enumerated_Domain_Value_Definition:
Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
SPECIES_ID
Attribute_Definition:
Numeric identifier for each species that is unique within each element and refers to a nationwide master ESI species list maintained at NOAA.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
1
Range_Domain_Maximum:
N

Attribute:
Attribute_Label:
STATE
Attribute_Definition:
Two-letter state abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
COUNTRY
Attribute_Definition:
Three-letter country abbreviation.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
S
Attribute_Definition:
State threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on state list

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on state list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
F
Attribute_Definition:
Federal threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on federal list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:
Attribute_Label:
I
Attribute_Definition:
International threatened or endangered status.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
E
Enumerated_Domain_Value_Definition:
Endangered on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
T
Enumerated_Domain_Value_Definition:
Threatened on international list
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
C
Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
S_DATE
Attribute_Definition:
Publication date of source material used to assign state status values for each species, if used.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
YYYYMM
Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:

F_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:
Entity_Type_Label:
SOURCES
Entity_Type_Definition:
The data table SOURCES contains the primary sources used to create the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way this table relates to other attribute tables in the ESI data structure.
Entity_Type_Definition_Source:
NOAA ESI Guidelines
Attribute:
Attribute_Label:
SOURCE_ID
Attribute_Definition:
Source identifier that links records in the SOURCES data table to the items G_SOURCE and A_SOURCE in the SOC_DAT table; G_SOURCE and S_SOURCE in the BIORES table; and SOURCE_ID 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.

Overview_Description:

Entity_and_Attribute_Overview:

In addition to the geographic data layers, six relational attribute or data tables, BIORES, BREED, SEASONAL, SOURCES, SPECIES, and STATUS, are used to store the complex biological data in the ESI data structure. The geographic data layer containing biological resource information (in this case, HABITATS) is linked to the Biological Resources table (BIORES) using the unique ID and the lookup table BIO_LUT, or it can be linked directly using RARNUM. The ID is a unique combination of the atlas number (for the Mississippi atlas, the number is 232), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described 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.Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files described below to ease simple data queries. The items in the flat file are ELEMENT, SUBELEMENT, NAME, GEN_SPEC, S, F, NHP, DATE_PUB, CONC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, BREED1, BREED2, BREED3, BREED4, BREED5, RARNUM, G_SOURCE, S_SOURCE, and BREED. All of these items are the same as their counterparts in the individual data tables described below, except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item.A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in detail below.

Entity_and_Attribute_Detail_Citation:

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

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Resource_Description:
Downloadable Data
Distribution_Liability:
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Custom_Order_Process:
Contact NOAA for distribution options (see Distributor). ESI data are processed into multiple formats to make them useful to the widest community of GIS/mapping users. Distribution formats include Geodatabase; ARC export, MOSS, and Shape files; and MARPLOT map folders. An ArcMap .mxd file, an ArcView 3.x ESI project, and an ESI_Viewer product for use with the MARPLOT data are also included on the distribution CDs/DVDs for ease of use of the ESI data. The database files are distributed both in the NOAA standard relational database format (see NOAA Technical Memorandum NOS ORCA 115) and in a simplified desktop flat file format. This metadata document includes information on both of these database formats.

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Metadata_Reference_Information:
Metadata_Date:
20100512
Metadata_Review_Date:
20100512
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Metadata_Standard_Name:

Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version:

FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage:

http://www.ncddc.noaa.gov/metadataresource/metadata-references/files/ncddcmdprofile_v2.pdf

Profile_Name:

Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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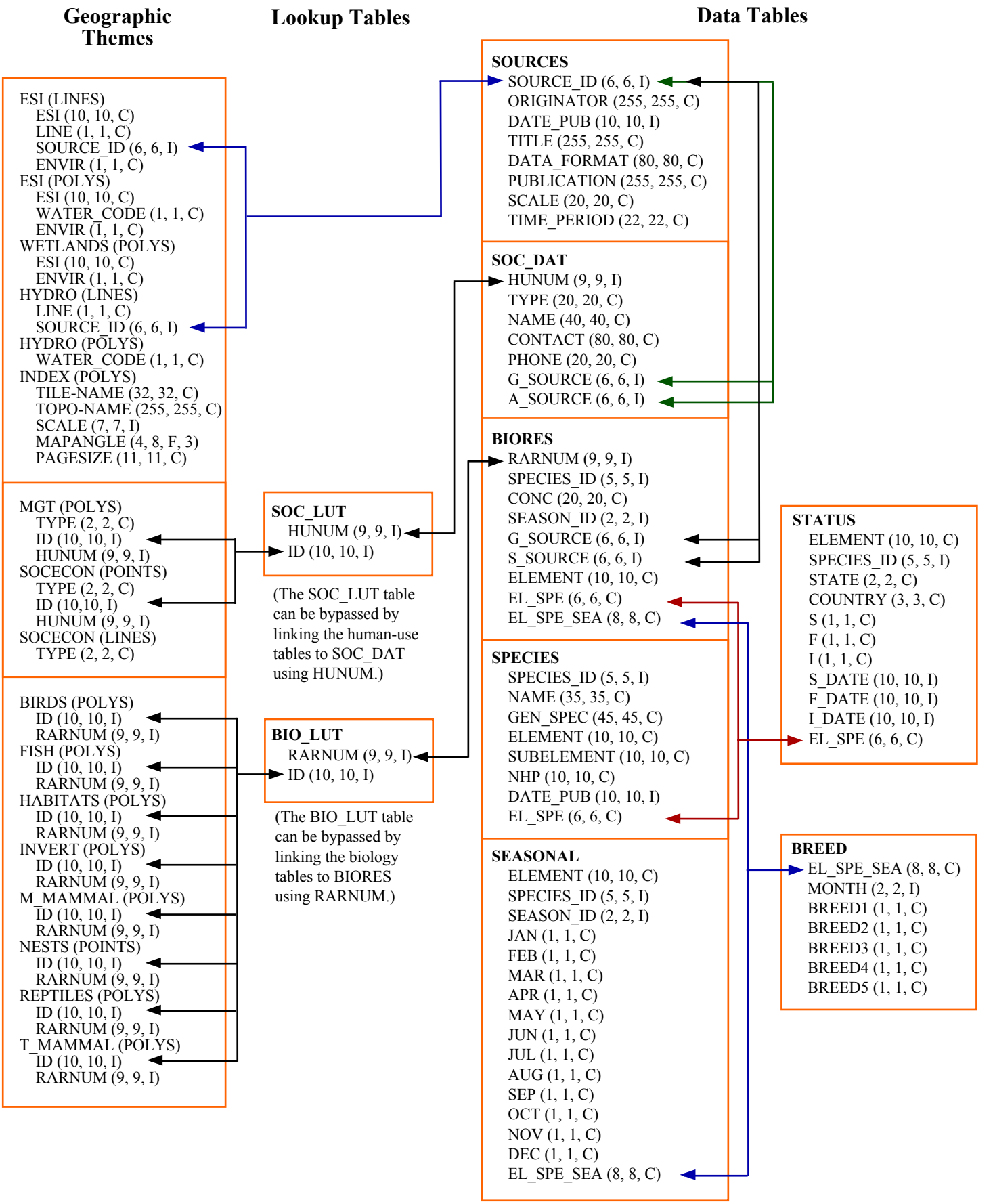
Mississippi ESI

Entity Relationship Diagram for the Relational Data Tables

Relationships between spatial data layers and relational data tables



Mississippi ESI

Entity Relationship Diagram for the Desktop/Flat File Approach

Relationships between spatial data layers and desktop data tables