

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

Metadata:

- [Identification Information](#)
 - [Data Quality Information](#)
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-

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains vector lines and polygons representing coastal hydrography used in the creation of the Environmental Sensitivity Index (ESI) for Southern California. 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 Southern California. 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:

1977

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 1977 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 Southern California.

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:

CALIFORNIA COASTAL RECORDS PROJECT

Publication_Date:

20051004

Title:

PHOTOGRAPHIC DATABASE DOCUMENTING
CALIFORNIA'S COAST

Geospatial_Data_Presentation_Form:

PHOTOGRAPH

Online_Linkage:

<http://www.californiacoastline.org>

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2005

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

HYDRO INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

GOOGLE EARTH PRO

Publication_Date:

2009

Title:

IMAGERY OF CALIFORNIA SHORELINE FOR ESI
ANALYSIS

Geospatial_Data_Presentation_Form:

remote-sensing image

Publication_Information:

Publication_Place:

MOUNTAIN VIEW, CA

Publisher:

GOOGLE, INC.

Other_Citation_Details:

IMAGE DATES RANGE FROM 2006 TO 2009. IMAGE
SOURCES INCLUDE DIGITAL GLOBE, U.S.
GEOLOGICAL SURVEY, AND TERRA METRICS.

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2006

Ending_Date:

2009

Source_Currentness_Reference:

DATE OF SURVEY

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: SOUTHERN

CALIFORNIA : 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:

NOAA NATIONAL MARINE SANCTUARIES
PROGRAM

Publication_Date:

200806

Title:

CINM_PY

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SILVER SPRING, MD

Publisher:

NOAA NATIONAL MARINE SANCTUARIES
PROGRAM

Online_Linkage:

<http://sanctuaries.noaa.gov/>

Source_Scale_Denominator:

20000

Type_of_Source_Media:

online

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
200806
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:
U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
2006
Title:
NATIONAL WETLANDS INVENTORY POLYGONS
(CALIFORNIA STATEWIDE)
Geospatial_Data_Presentation_Form:
vector digital data

*Publication_Information:**Publication_Place:*

WASHINGTON, D.C.

*Publisher:*U.S. FISH AND WILDLIFE SERVICE, BRANCH
OF HABITAT ASSESSMENT*Source_Scale_Denominator:*

24000

Type_of_Source_Media:

online

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

1977

Ending_Date:

2004

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

HYDRO INFORMATION

*Process_Step:**Process_Description:*

The shoreline of the original ESI maps, published in 1995, were re-examined and updated using the following methods: interpretation of the 2008 contiguous aerial photography (California Coastal Records Project), USFWS Wetland coverages (used to classify marshes and swamps), Google Earth in areas where no other current data could be obtained, and through verification via overflights conducted in October 27- 30 of 2008. 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:

201003

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

Vector

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

GT-polygon composed of chains

Point_and_Vector_Object_Count:

835

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

836

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

5179

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

93014

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Label Point

Point_and_Vector_Object_Count:

608

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node,planar graph

Point_and_Vector_Object_Count:

5170

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

HYDRO.AAT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

LINE

Attribute_Definition:

Type of geographic feature.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

B

Enumerated_Domain_Value_Definition:

Breakwater

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

H

Enumerated_Domain_Value_Definition:

Hydrography

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

I

Enumerated_Domain_Value_Definition:

Index

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

S

Enumerated_Domain_Value_Definition:

Shoreline

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

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

HYDRO.PAT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

WATER_CODE

Attribute_Definition:

Specifies a polygon as either water or land.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

L

Enumerated_Domain_Value_Definition:

Land

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

W

Enumerated_Domain_Value_Definition:

Water

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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 and ESI_SOURCE in the ESI and HYDRO data layers.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

The geographic data layer containing resource information (in this case, HYDRO) is linked to the SOURCES table using the SOURCE_ID. 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_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:*

20100927

Metadata_Review_Date:

20100927

*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/metadatarresource/metadatarreferences/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: Southern California: ESI (Shoreline Types - Lines and Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Southern California: ESI (Shoreline Types - Lines and Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains vector lines and polygons representing the shoreline and coastal habitats of Southern California, classified according to the Environmental Sensitivity Index (ESI) classification system. This data set comprises a portion of the ESI data for Southern California. 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:

1977

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 1977 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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.

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:

CALIFORNIA COASTAL RECORDS PROJECT

Publication_Date:

20051004

Title:

PHOTOGRAPHIC DATABASE DOCUMENTING CALIFORNIA'S COAST

Geospatial_Data_Presentation_Form:

PHOTOGRAPH

Online_Linkage:

<http://www.californiacoastline.org>

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2005

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:
ESI INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
GOOGLE EARTH PRO

Publication_Date:
2009

Title:
IMAGERY OF CALIFORNIA SHORELINE FOR ESI ANALYSIS

Geospatial_Data_Presentation_Form:
remote-sensing image

Publication_Information:
Publication_Place:
MOUNTAIN VIEW, CA

Publisher:
GOOGLE, INC.

Other_Citation_Details:
IMAGE DATES RANGE FROM 2006 TO 2009. IMAGE SOURCES INCLUDE DIGITAL GLOBE, U.S. GEOLOGICAL SURVEY, AND TERRA METRICS.

Type_of_Source_Media:
online

Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
2006

Ending_Date:
2009

Source_Currentness_Reference:
DATE OF SURVEY

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: SOUTHERN
CALIFORNIA : 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:

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:

ESI INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RESEARCH PLANNING, INC.

Publication_Date:

2008

Title:

OVERFLIGHT OBLIQUES

Geospatial_Data_Presentation_Form:

PHOTOGRAPH

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

DIGITAL PHOTOGRAPH

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2008

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

ESI INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

U.S. FISH AND WILDLIFE SERVICE

Publication_Date:

2006

Title:

NATIONAL WETLANDS INVENTORY POLYGONS
(CALIFORNIA STATEWIDE)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

WASHINGTON, D.C.

Publisher:

U.S. FISH AND WILDLIFE SERVICE, BRANCH
OF HABITAT ASSESSMENT

Source_Scale_Denominator:

24000

Type_of_Source_Media:

online

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

1977

Ending_Date:

2004

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

ESI INFORMATION

*Process_Step:**Process_Description:*

The shoreline habitats on the original ESI maps, published in 1995, were re-examined and updated using the following methods: interpretation of the 2008 contiguous aerial photography (California Coastal Records Project), U.S. Fish and Wildlife (USFWS) Wetland coverages (used to classify marshes and swamps), Google Earth in areas where no other current data could be obtained, and through verification via overflights conducted in October 27- 30 of 2008. Flights were conducted using fixed-wing aircraft flying at slow air speeds at altitudes of 400-600 feet, excluding areas near military installations (San Nicholas) where the altitudes of overflight were 1000 feet. All flights were scheduled to maximize optimal low tide conditions, flying approximately 2.5 hours preceding and 2.5 hours following peak low tides. During these flights a geomorphologist utilized a digital SLR camera to capture a continuous set of overlapping oblique images of the intertidal zone. Throughout the overflight mission a Global Positioning System (GPS) receiver collected and recorded flight path data. Following completion of the overflight mission, all digital photographs of the intertidal zone were georeferenced using photo-mapping software and the GPS flight path data. With Geographic Information System (GIS) software a geomorphologist reviewed each georeferenced oblique image of the intertidal zone and assigned ESI rankings to the digital shoreline. Where appropriate, multiple rankings were assigned. 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:

201003

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:

1856

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

1857

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

6517

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

139657

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node,planar graph

Point_and_Vector_Object_Count:

5920

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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:

1A

Enumerated_Domain_Value_Definition:

Exposed Rocky Shores

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

1B

Enumerated_Domain_Value_Definition:

Exposed, Solid Man-made Structures

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

2A

Enumerated_Domain_Value_Definition:

Exposed Wave-cut Platforms in Bedrock

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

3A

Enumerated_Domain_Value_Definition:

Fine- to Medium-grained Sand Beaches

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
3B
Enumerated_Domain_Value_Definition:
Scarps and Steep Slopes in Sand
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
4
Enumerated_Domain_Value_Definition:
Coarse-grained Sand Beaches
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
5
Enumerated_Domain_Value_Definition:
Mixed Sand and Gravel Beaches
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
6A
Enumerated_Domain_Value_Definition:
Gravel Beaches
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
6D
Enumerated_Domain_Value_Definition:
Boulder Rubble
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

7

Enumerated_Domain_Value_Definition:

Exposed Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

8A

Enumerated_Domain_Value_Definition:

Sheltered Rocky Shores

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:

Vegetated Low Banks

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

9C

Enumerated_Domain_Value_Definition:

Hypersaline Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

10A

Enumerated_Domain_Value_Definition:

Salt- and Brackish-water marshes

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

10B

Enumerated_Domain_Value_Definition:

Freshwater Marshes

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

10C

Enumerated_Domain_Value_Definition:

Swamps

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

10D

Enumerated_Domain_Value_Definition:

Scrub-shrub Wetlands

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

U

Enumerated_Domain_Value_Definition:

Unranked

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

LINE

Attribute_Definition:

Type of geographic feature.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 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:
 I
 Enumerated_Domain_Value_Definition:
 Index
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

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

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 S
 Enumerated_Domain_Value_Definition:
 Shoreline
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
 Attribute_Label:
 SOURCE_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ENVIR

Attribute_Definition:

Type of regional environment.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E

Enumerated_Domain_Value_Definition:

Estuarine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

U

Enumerated_Domain_Value_Definition:

Unclassified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ESI_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

-1

Range_Domain_Maximum:

N

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:*

9C

Enumerated_Domain_Value_Definition:

Hypersaline Tidal Flats

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

10A

Enumerated_Domain_Value_Definition:

Salt- and Brackish-water marshes

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

10B

Enumerated_Domain_Value_Definition:

Freshwater Marshes

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

10C

Enumerated_Domain_Value_Definition:

Swamps

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

10D

Enumerated_Domain_Value_Definition:

Scrub-shrub Wetlands

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

U

Enumerated_Domain_Value_Definition:

Unranked

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

WATER_CODE

Attribute_Definition:

Specifies a polygon as either water or land.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

L

Enumerated_Domain_Value_Definition:

Land

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

W

Enumerated_Domain_Value_Definition:

Water

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ENVIR

Attribute_Definition:

Type of regional environment.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E

Enumerated_Domain_Value_Definition:

Estuarine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

U

Enumerated_Domain_Value_Definition:

Unclassified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ESI_SOURCE

Attribute_Definition:

Source identifier that links to the SOURCES data table. This identifier indicates the source of the ESI classification of a polygon. Polygon features that do not have an associated ESI value are given an ESI_SOURCE value of -1.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

-1

Range_Domain_Maximum:

N

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

SOURCES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

The geographic data layer containing resource information (in this case, ESI) is linked to the SOURCES table using the SOURCE_ID. 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_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.

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

20100927

Metadata_Review_Date:

20100927

*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/metadatarresource/metadatarreferences/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: Southern California: ACP (Area Contingency Plan Points)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Southern California: ACP (Area Contingency Plan Points)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains data for Area Contingency Plan (ACP) sensitive sites in Southern California. Vector points in this data set represent sites identified as sensitive for biological and/or human-use resources that should be prioritized for protection during spill response activities. This data set comprises a portion of the ESI data for Southern California. 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:

2000

Ending_Date:

2010

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 2000 to 2010 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

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:
Area contingency plan

Theme:

Theme_Keyword_Thesaurus:
NOS Data Explorer Topic Category

Theme_Keyword:
Environmental Monitoring

Place:

Place_Keyword_Thesaurus:
None

Place_Keyword:
Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 Los Angeles / Long Beach and San Diego Oil Spill Contingency Plans.

*Positional Accuracy:**Horizontal Positional Accuracy:**Horizontal Positional Accuracy Report:*

The ACP data set was developed from pre-existing digital data and reflects the positional accuracy of these original data. See the Lineage and Process Description sections for more information on the original source data and how these data were integrated or manipulated to create the final data set.

*Lineage:**Source Information:**Source Citation:**Citation Information:**Originator:*

CDF&G OFFICE OF SPILL PREVENTION AND
RESPONSE (OSPR)

Publication Date:

2009

Title:

ACP SENSITIVE SITES AND SHORELINE ACCESS
POINTS

Geospatial Data Presentation Form:

vector digital data

Other Citation Details:

UNPUBLISHED

Online Linkage:

http://www.dfg.ca.gov/ospr/Response/ACP_Marine.aspx

Type of Source Media:

CD-ROM

*Source Time Period of Content:**Time Period Information:**Single Date/Time:**Calendar Date:*

2009

Source Currentness Reference:

DATE OF COMMUNICATION

Source Citation Abbreviation:

NONE

Source Contribution:

ACP INFORMATION

*Process_Step:**Process_Description:*

These data were imported from digital data sets provided by the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR). The point data and associated attribute information were plotted on hardcopy maps and reviewed for accuracy. Edits, if any, were made by the resource experts during the review period.

Process_Date:

201003

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

NOAA, Office of Response and Restoration

Contact_Person:

Jill Petersen

*Contact_Address:**Address_Type:*

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State_or_Province:

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Postal_Code:

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Contact_Voice_Telephone:

(206) 526-6944

Contact_Facsimile_Telephone:

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Contact_Electronic_Mail_Address:Jill.Petersen@noaa.gov[Back To Index](#)

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

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

Area point

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:

ACP.PAT

Entity_Type_Definition:

The ACP.PAT table contains attribute information for the vector points representing sensitive area features in the ACP data layer.

Entity_Type_Definition_Source:

California Department of Fish and Game (CDF&G),
http://www.dfg.ca.gov/ospr/Response/ACP_Marine.aspx.

Attribute:

Attribute_Label:

LATDD

Attribute_Definition:

ACP site latitude in decimal degrees.

Attribute_Definition_Source:

CDF&G

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

-90

Range_Domain_Maximum:

90

Attribute:

Attribute_Label:

LONDD

Attribute_Definition:

ACP site longitude in decimal degrees.

Attribute_Definition_Source:

CDF&G

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

-180

Range_Domain_Maximum:

180

*Attribute:**Attribute_Label:*

SITE_NUM_N

Attribute_Definition:

ID of the ACP site.

Attribute_Definition_Source:

CDF&G

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Free Text.

*Attribute:**Attribute_Label:*

SITE_NAME

Attribute_Definition:

Name of the ACP site.

Attribute_Definition_Source:

CDF&G

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Free Text.

*Attribute:**Attribute_Label:*

DATE_

Attribute_Definition:

Date of the last ACP site survey.

Attribute_Definition_Source:

CDF&G

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

MM/DD/YYYY

Enumerated_Domain_Value_Definition:

MM for month, DD for day, and YYYY for year.

Enumerated_Domain_Value_Definition_Source:

CDF&G

[Back To Index](#)*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:

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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.

[Back To Index](#)

*Metadata_Reference_Information:**Metadata_Date:*

20100927

Metadata_Review_Date:

20100927

*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/metadatarsource/metadatarreferences/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: Southern California: INDEX (Index Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains vector polygons representing the boundaries of all hardcopy cartographic products and digital data extents produced as part of the Environmental Sensitivity Index (ESI) for Southern California. This data set comprises a portion of the ESI data for Southern California. 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 2008-2010. The currentness date for the 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

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:
Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

*Program_Affiliation:**Program_Name:*

National Ocean Service Data Explorer

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

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

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for

proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. A final review is made by the GIS manager, where the data are written to CD/DVD 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 as part of the ESI Southern California, as well as digital data extents.

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:

2009

Title:

TOPOGRAPHIC MAPS

Geospatial_Data_Presentation_Form:

raster digital data

*Publication_Information:**Publication_Place:*

RESTON, VA

Publisher:

USGS

Source_Scale_Denominator:

24000

Type_of_Source_Media:

online

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

1943

Ending_Date:

1988

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

ANACAPA ISLAND, CALIF. (1973); CARPINTERIA, CALIF. (1988); DANA POINT, CALIF. (1975); DEL MAR, CALIF. (1975); DOS PUEBLOS CANYON, CALIF. (1988); ENCINITAS, CALIF. (1975); GAVIOTA, CALIF. (1982); GOLETA, CALIF. (1988); IMPERIAL BEACH, CALIF.-BAJA CALIF. NORTE (1975); LA JOLLA, CALIF. (1975); LAGUNA BEACH, CALIF. (1981); LAS PULGAS CANYON, CALIF. (1975); LONG BEACH, CALIF. (1981); LOS ALAMITOS, CALIF. (1981); MALIBU, CALIF. (1981); NATIONAL CITY, CALIF. (1975); NEWPORT BEACH, CALIF. (1981); OCEANSIDE, CALIF. (1975); OXNARD, CALIF. (1967); PITAS POINT, CALIF. (1967); POINT CONCEPTION, CALIF. (1974); POINT DUME, CALIF. (1981); POINT LOMA, CALIF. (1975); POINT MUGU, CALIF. (1967); REDONDO BEACH, CALIF. (1981); SACATE, CALIF. (1953); SAN CLEMENTE ISLAND CENTRAL, CALIF. (1980); SAN CLEMENTE ISLAND NORTH, CALIF. (1980); SAN CLEMENTE ISLAND SOUTH, CALIF. (1980); SAN CLEMENTE, CALIF. (1975); SAN JUAN CAPISTRANO, CALIF. (1981); SAN LUIS REY, CALIF. (1975); SAN MIGUEL ISLAND EAST, CALIF. (1943); SAN MIGUEL ISLAND WEST, CALIF. (1943); SAN NICOLAS ISLAND, CALIF. (1956); SAN ONOFRE BLUFF, CALIF. (1975); SAN PEDRO, CALIF. (1981); SANTA BARBARA ISLAND, CALIF. (1973); SANTA

BARBARA, CALIF. (1988); SANTA CATALINA EAST, CALIF. (1980); SANTA CATALINA NORTH, CALIF. (1980); SANTA CATALINA SOUTH, CALIF. (1980); SANTA CATALINA WEST, CALIF. (1980); SANTA CRUZ ISLAND A, CALIF. (1974); SANTA CRUZ ISLAND B, CALIF. (1943); SANTA CRUZ ISLAND C, CALIF. (1974); SANTA CRUZ ISLAND D, CALIF. (1974); SANTA ROSA ISLAND EAST, CALIF. (1943); SANTA ROSA ISLAND NORTH, CALIF. (1943); SANTA ROSA ISLAND SOUTH, CALIF. (1943); SANTA ROSA ISLAND WEST, CALIF. (1943); SEAL BEACH, CALIF. (1981); TAJIGUAS, CALIF. (1982); TOPANGA, CALIF. (1981); TORRANCE, CALIF. (1981); TRIUNFO PASS, CALIF. (1967); VENICE, CALIF. (1981); VENTURA, CALIF. (1967); WHITE LEDGE PEAK, CALIF. (1967).

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:

201003

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:
 56

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Area point
Point_and_Vector_Object_Count:
 57

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Complete chain
Point_and_Vector_Object_Count:
 238

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Link
Point_and_Vector_Object_Count:
 241

SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Node,planar graph
Point_and_Vector_Object_Count:
 187

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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:

53

*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:*

-5.4980

Range_Domain_Maximum:

23.7630

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:*

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).

[Back To Index](#)

*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.

[Back To Index](#)

*Metadata_Reference_Information:**Metadata_Date:*

20100927

Metadata_Review_Date:

20100927

*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/metadatarsource/metadatarreferences/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: Southern California: MGT (Management Area Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive human-use data for critical habitats, fishery areas, management areas, marine sanctuaries, national forests, national parks, The Nature Conservancy (TNC) lands, parks, and wildlife refuges in Southern California. 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 Southern California. 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 Southern California 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:

2002

Ending_Date:

2010

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 2002 to 2010 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 "resource 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 Southern California ESI database, for additional human-use information. These data do not necessarily represent all management areas in Southern California.

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:

CAL STATE PARKS ACQUISITION AND
DEVELOPMENT DIVISION

Publication_Date:

2008

Title:

CSP_OPBDYS072008

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

CALIFORNIA STATE PARKS

Source_Scale_Denominator:

24000

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:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

CDF&G AND CHANNEL ISLANDS NATIONAL
MARINE SANCTUARY (CINMS)

Publication_Date:

2007

Title:

BOUNDARIES OF MARINE PROTECTED AREAS
(MPAS) WITHIN THE CHANNEL ISLANDS NATIONAL
MARINE SANCTUARY

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2007

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

CDF&G MARINE REGION GIS

Publication_Date:

2008

Title:

STATE MARINE PROTECTED AREAS WITHIN THE
SOUTH COAST STUDY AREA

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNIVERSITY OF CALIFORNIA SANTA BARBARA,
MARINE LIFE PROTECTION ACT (UCSB MLPA)

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:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

CDF&G OFFICE OF SPILL PREVENTION AND
RESPONSE (OSPR)

Publication_Date:

2009

Title:

FISHERY SEASONS

Geospatial_Data_Presentation_Form:

spreadsheet

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
California Department of Fish and Game
Publication_Date:
200902
Title:
California Department of Fish and Game Owned Lands
(DFG Owned Lands)
Geospatial_Data_Presentation_Form:
vector digital data
Online_Linkage:
http://ftp.dfg.ca.gov/Public/Wildlife_Branch/DFG_Lands/

Source_Scale_Denominator:
24000

Type_of_Source_Media:
online

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
200902

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
MARINE LIFE PROTECTION ACT (MLPA)
Publication_Date:
2009
Title:
MLPA COMMERCIAL FISH (VARIOUS SPECIES)
Geospatial_Data_Presentation_Form:
vector digital data
Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
online

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
NOAA NATIONAL MARINE SANCTUARIES
PROGRAM

Publication_Date:
2008

Title:
CINMS_BOUNDARY_6_08

Geospatial_Data_Presentation_Form:
vector digital data

Other_Citation_Details:
NOAA NATIONAL MARINE SANCTUARIES
PROGRAM

Type_of_Source_Media:
CD-ROM

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:
MGT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
National Park Service

Publication_Date:
20090401

Title:
Current Administrative Boundaries of National Park System
Units 04/01/2009

Geospatial_Data_Presentation_Form:
vector digital data

Online_Linkage:
http://www.nps.gov/gis/data_info/

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:
2009
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
THE NATURE CONSERVANCY, U.S. GEOLOGICAL
SURVEY
Publication_Date:
2005
Title:
SANTA CRUZ ISLAND MAP
Geospatial_Data_Presentation_Form:
HARDCOPY MAP
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2005
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
MGT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
U.S. NAVY
Publication_Date:
2010
Title:
SEAL BEACH NAVAL WEAPONS RESERVE
BOUNDARY

Geospatial_Data_Presentation_Form:

HARDCOPY MAP

Other_Citation_Details:

UNPUBLISHED

Source_Scale_Denominator:

24000

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2010

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNITED STATES FISH AND WILDLIFE SERVICE
(USFWS)

Publication_Date:

2009

Title:

FWS CRITICAL HABITAT FOR THREATENED AND
ENDANGERED SPECIES

Geospatial_Data_Presentation_Form:

vector digital data

Online_Linkage:

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

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:

MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

USDA Forest Service - Pacific Southwest Region - Regional Office

Publication_Date:
200901

Title:
AdministrativeForest09_1

Geospatial_Data_Presentation_Form:
vector digital data

Online_Linkage:
<http://www.fs.fed.us/r5/rs1/projects/frdb/layers/owner.html>

Source_Scale_Denominator:
24000

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:
MGT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
USFWS, Region 1, Division of Refuge Planning

Publication_Date:
20040513

Title:
FWS_R1_NWR_ApBnd

Geospatial_Data_Presentation_Form:
vector digital data

Online_Linkage:
<http://www.fws.gov/GIS/index.htm>

Source_Scale_Denominator:
24000

Type_of_Source_Media:
online

Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
2004

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
MGT INFORMATION

Process_Step:

Process_Description:

Numerous digital coverages were used to depict management areas for this data layer. Data layers were provided by: NOAA National Marine Sanctuaries, California State Parks (CSP), U.S. Fish and Wildlife Service (USFWS), University of California Marine Life Protection Act (MLPA), U.S. Department of Agriculture (USDA) Forest Service, National Park Service (NPS), California Department of Fish and Game (CDF&G), and The Nature Conservancy. 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:

201003

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

NOAA, Office of Response and Restoration

Contact_Person:

Jill Petersen

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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:

1772

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

1773

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

3189

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

139696

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

2267

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

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

[Back To Index](#)*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

MGT.PAT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TYPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

CH

Enumerated_Domain_Value_Definition:

Designated Critical Habitat

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FA

Enumerated_Domain_Value_Definition:

Fishery Area

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FO

Enumerated_Domain_Value_Definition:

National Forest

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MA

Enumerated_Domain_Value_Definition:

Management Area

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MI

Enumerated_Domain_Value_Definition:

Military

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MR

Enumerated_Domain_Value_Definition:

Multiple Records - Signifies that multiple types overlap in the polygon

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MS

Enumerated_Domain_Value_Definition:

Marine Sanctuary

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

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 (209), 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:*

2091100002

Range_Domain_Maximum:

2091101855

*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:*

209000393

Range_Domain_Maximum:

209001158

*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:*

209000001

Range_Domain_Maximum:

209001158

*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 (209), element number (10=SOCECON, 11=MGT), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

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

209100001

Range_Domain_Maximum:

2091101855

*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:

209000001

Range_Domain_Maximum:

209001158

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:

AQUACULTURE

Enumerated_Domain_Value_Definition:

Aquaculture

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BEACH

Enumerated_Domain_Value_Definition:

Beach

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BOAT RAMP

Enumerated_Domain_Value_Definition:

Boat Ramp

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

COAST GUARD

Enumerated_Domain_Value_Definition:

Coast Guard

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

CRITICAL HABITAT

Enumerated_Domain_Value_Definition:

Designated Critical Habitat

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISHERY AREA

Enumerated_Domain_Value_Definition:

Fishery Area

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MANAGEMENT AREA

Enumerated_Domain_Value_Definition:

Management Area

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MARINA

Enumerated_Domain_Value_Definition:

Marina

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

MARINE SANCTUARY

Enumerated_Domain_Value_Definition:

Marine Sanctuary

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
MILITARY
Enumerated_Domain_Value_Definition:
Military
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
NATIONAL FOREST
Enumerated_Domain_Value_Definition:
National Forest
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
OIL FACILITY
Enumerated_Domain_Value_Definition:
Oil Facility
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
OIL SEEP
Enumerated_Domain_Value_Definition:
Oil Seep
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:

PLATFORM

Enumerated_Domain_Value_Definition:

Platform

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

RECREATIONAL FISHING

Enumerated_Domain_Value_Definition:

Recreational Fishing

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

WATER INTAKE

Enumerated_Domain_Value_Definition:

Water Intake

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

WILDLIFE REFUGE

Enumerated_Domain_Value_Definition:

Wildlife Refuge

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

NAME

Attribute_Definition:

The feature name.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

CONTACT

Attribute_Definition:

Contact person or entity.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PHONE

Attribute_Definition:

Contact telephone number.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Any character

Enumerated_Domain_Value_Definition:

Free text

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

A_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

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

SOURCES

Entity_Type_Definition:

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

attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SOURCE_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

Two relational attribute or data tables, SOC_DAT, and SOURCES, are used to store the complex socioeconomic data in the ESI data structure. The geographic data layer containing socioeconomic data resource information (in this case, MGT) is linked to the Socioeconomic Resources table (SOC_DAT) using the unique ID and the lookup table SOC_LUT, or it can be linked directly using HUNUM. HUNUM is a unique reference number concatenated with the atlas number (for Southern California, the number is 209). ID is a unique combination of the atlas number (209), an element specific number (MGT = 11), and a unique record number. SOC_DAT and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines

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

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

John Kaperick

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NOAA, Office of Response and Restoration

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State_or_Province:

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Postal_Code:

98115-6349

Contact_Voice_Telephone:

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Contact_Facsimile_Telephone:

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Resource_Description:

Downloadable Data

Distribution_Liability:

Although these data have been processed successfully on a computer system at the National Oceanic and Atmospheric Administration, 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:*

20100927

Metadata_Review_Date:

20100927

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

Jill Petersen

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Contact_Facsimile_Telephone:

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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/metadatarresource/metadatarreferences/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: Southern California: SOCECON (Socioeconomic Resource Points and Lines)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains human-use resource point data for access sites, airports, aquaculture sites, beaches, boat ramps, marinas, coast guard facilities, oil facilities, oil seeps, platforms, recreational fishing sites and water intakes in Southern California. The data set also contains line data for county boundaries, international borders, bridges, shipping lanes, and state waters in Southern California. Vector points and lines in the data set represent human-use site locations. Location-specific type and source information is 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 Southern California. 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 Southern California 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 2008-2010. The currentness dates for the 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 "resource 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 digital data on socioeconomic resources. See also the MGT data layer, part of the larger Southern California ESI database, for additional human-use information. These data do not necessarily represent all human-use sites in Southern California.

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:

CALTRANS

Publication_Date:

2008

Title:
 CALIFORNIA AIRPORTS
Geospatial_Data_Presentation_Form:
 vector digital data
Other_Citation_Details:
 CALTRANS HQ AERONAUTICS
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:
 SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 CDF&G MARINE REGION
Publication_Date:
 2009
Title:
 STATE-WIDE FISHING PIERS
Geospatial_Data_Presentation_Form:
 vector digital data
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 CD-ROM
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 CDF&G MARINE REGION GIS
Publication_Date:

2009

Title:

POWER POINT INTAKES (PPINTAKES)

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

online

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

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

SOCECON INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*CDF&G OFFICE OF SPILL PREVENTION AND
RESPONSE (OSPR)*Publication_Date:*

2009

*Title:*ACP SENSITIVE SITES AND SHORELINE ACCESS
POINTS*Geospatial_Data_Presentation_Form:*

vector digital data

Other_Citation_Details:

UNPUBLISHED

Online_Linkage:http://www.dfg.ca.gov/ospr/response/acp/marine_acp.html*Type_of_Source_Media:*

CD-ROM

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

2009

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

SOCECON INFORMATION

Source_Information:

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

KONG, C. (CDF&G, OSPR)

Publication_Date:

2009

*Title:*SOCECON RESOURCES IN LA AND ORANGE
COUNTIES*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:*

LERMA, D. (TIERRA DATA INC.)

Publication_Date:

2009

Title:

SAN NIC WATER INTAKE

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 PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

SOCECON INFORMATION

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

LEWIS, R. (CDF&G OSPR)

Publication_Date:

2009

*Title:*DISTRIBUTION OF SOCECON AND BIOLOGICAL
RESOURCES IN SOUTHERN CALIFORNIA*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:*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: SOUTHERN
CALIFORNIA: T_MAMMAL: SOCECON*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:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

OFFICE OF SPILL PREVENTION AND RESPONSE
(OSPR) AND CDF&G (T. MOORE)

Publication_Date:

2009

Title:

AQUACULTURE_SOCAL

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

OSPR, CSLC

Publication_Date:

2004

Title:

CALIFORNIA COASTAL BOATING FACILITIES

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

CD-ROM

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

2003

Ending_Date:

2004

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

SOCECON INFORMATION

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

PEUGH, J. (SAN DIEGO AUDUBON)

Publication_Date:

2009

Title:

SAN DIEGO COUNTY BIRDS

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

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

2009

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

SOCECON INFORMATION

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

Originator:
 PRYOR, D.
Publication_Date:
 2009
Title:
 SPECIES DISTRIBUTION, LOS ANGELES COUNTY
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 PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 SOCECON INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 R. IMAI/ M. LAMPINEN CDF&G
Publication_Date:
 2007
Title:
 OIL PLATFORMS
Geospatial_Data_Presentation_Form:
 tabular digital data
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 CD-ROM
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2002
Ending_Date:
 2007
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNIVERSITY OF CALIFORNIA SANTA BARBARA,
MARINE LIFE PROTECTION ACT (UCSB MLPA)

Publication_Date:

2009

Title:

CUL_BOATLAUNCHSITES_SRSC

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UCSB MLPA

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:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNIVERSITY OF CALIFORNIA SANTA BARBARA,
MARINE LIFE PROTECTION ACT (UCSB MLPA)

Publication_Date:

2009

Title:

CUL_DESAL_PLANTS

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UCSB MLPA

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:
SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNIVERSITY OF CALIFORNIA SANTA BARBARA,
MARINE LIFE PROTECTION ACT (UCSB MLPA)

Publication_Date:

2009

Title:

OIL SEEPS

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UCSB MLPA

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:

SOCECON INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

WIESE, K. (CDF&G OSPR)

Publication_Date:

2009

Title:

SPECIES AND SOCECON INFO FOR SOUTHERN
CALIFORNIA

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:
 WILSON, K. (CDF&G OSPR, RETIRED)
Publication_Date:
 2009
Title:
 SOCECON AND MANAGEMENT INFO FOR
 SOUTHERN CALIFORNIA
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 online
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:
 Two main sources of data were used to depict human-use resources for this data layer: 1) personal interviews with resource experts from California Department of Fish and Game (CDF&G) Office of Spill Prevention and Response (OSPR), California State Parks (CSP), San Diego Audubon, and 2) digital data provided by CDF&G, University of California Santa Barbara (UCSB) Marine Life Protection Act (MLPA), and California Department of Transportation (CALTRANS). 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:

201003

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:

Entity point

Point_and_Vector_Object_Count:

672

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

64

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

13496

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node,planar graph

Point_and_Vector_Object_Count:

76

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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 county boundaries, international borders, bridges, shipping lanes, and state waters.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TYPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

CB

Enumerated_Domain_Value_Definition:

County Border

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

IB

Enumerated_Domain_Value_Definition:

International Border

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

R

Enumerated_Domain_Value_Definition:

Road, Transportation, or Bridge

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SL

Enumerated_Domain_Value_Definition:

Shipping Lane

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SW

Enumerated_Domain_Value_Definition:

State Waters

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 sites, airports, aquaculture sites, beaches, boat ramps, marinas, coast guard facilities, oil facilities, oil seeps, platforms, recreational fishing sites, and water intakes. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships

between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TYPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

A

Enumerated_Domain_Value_Definition:

Airport

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

A2

Enumerated_Domain_Value_Definition:

Access

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

AQ

Enumerated_Domain_Value_Definition:

Aquaculture

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

B

Enumerated_Domain_Value_Definition:

Beach

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BR

Enumerated_Domain_Value_Definition:

Boat Ramp

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

CG

Enumerated_Domain_Value_Definition:

Coast Guard

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M

Enumerated_Domain_Value_Definition:

Marina

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

OF

Enumerated_Domain_Value_Definition:

Oil Facility

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

OS

Enumerated_Domain_Value_Definition:

Oil Seep

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

PF

Enumerated_Domain_Value_Definition:

Platform

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

RF

Enumerated_Domain_Value_Definition:

Recreational Fishing

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

WI

Enumerated_Domain_Value_Definition:

Water Intake

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the human-use data layers to records in the SOC_LUT data table. ID is a concatenation of atlas number (209), element number (10), and record number.

Attribute_Definition_Source:

NOAA

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

2091000001

Range_Domain_Maximum:

2091000672

*Attribute:**Attribute_Label:*

HUNUM

Attribute_Definition:

An identifier that links directly to the SOC_DAT table.

Attribute_Definition_Source:

NOAA

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

209000001

Range_Domain_Maximum:

209000893

*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:*

209000001

Range_Domain_Maximum:

209001158

*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 (209), element number (10=SOCECON, 11=MGT), and record number. ID values of 9999 are holes in polygons and do not contain information.

Attribute_Definition_Source:

NOAA

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

209100001

Range_Domain_Maximum:

2091101855

*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:*

209000001

Range_Domain_Maximum:

209001158

*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:*

AQUACULTURE

Enumerated_Domain_Value_Definition:

Aquaculture

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

BEACH

Enumerated_Domain_Value_Definition:

Beach

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

BOAT RAMP

Enumerated_Domain_Value_Definition:

Boat Ramp

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
FISHERY AREA
Enumerated_Domain_Value_Definition:
Fishery Area
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

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

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

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

MILITARY

Enumerated_Domain_Value_Definition:

Military

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

NATIONAL FOREST

Enumerated_Domain_Value_Definition:

National Forest

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

NATIONAL PARK

Enumerated_Domain_Value_Definition:

National Park

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

OIL FACILITY

Enumerated_Domain_Value_Definition:

Oil Facility

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

OIL SEEP

Enumerated_Domain_Value_Definition:

Oil Seep

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:*

PLATFORM

Enumerated_Domain_Value_Definition:

Platform

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

RECREATIONAL FISHING

Enumerated_Domain_Value_Definition:

Recreational Fishing

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

WATER INTAKE

Enumerated_Domain_Value_Definition:

Water Intake

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

WILDLIFE REFUGE

Enumerated_Domain_Value_Definition:

Wildlife Refuge

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

The feature name.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

CONTACT

Attribute_Definition:

Contact person or entity.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PHONE

Attribute_Definition:

Contact telephone number.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Any character

Enumerated_Domain_Value_Definition:

Free text

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

A_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

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

SOURCES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Overview_Description:**Entity_and_Attribute_Overview:*

Two relational attribute or data tables, SOC_DAT, and SOURCES, are used to store the complex socioeconomic data in the ESI data structure. The geographic data layer containing socioeconomic data resource information (in this case, SOCECON) is linked to the Socioeconomic Resources table (SOC_DAT) using the unique ID and the lookup table SOC_LUT, or it can be linked directly using HUNUM. HUNUM is a unique reference number concatenated with the atlas number (for Southern California, the number is 209). ID is a unique combination of the atlas number (209), an element specific number (SOCECON = 10), and a unique record number. SOC_DAT and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure.

Entity_and_Attribute_Detail_Citation:

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

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

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.

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

20100927

Metadata_Review_Date:

20100927

*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/metadatarresource/metadatarreferences/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: Southern California: BIRDS (Bird Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Response and Restoration, Emergency Response Division, Seattle, Washington.

Online Linkage:

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

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 Southern California. Vector polygons in this data set represent bird nesting, roosting, migratory staging, and wintering sites. Species-specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described in the Overview_Description) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for Southern California. 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 Southern California 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:

1989

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 1989 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

Keywords:

Theme:

Theme_Keyword_Thesaurus:

ISO 19115 Topic Category

Theme_Keyword:

biota

Theme_Keyword:

environment

Theme:

Theme_Keyword_Thesaurus:

None

Theme_Keyword:

Environmental Monitoring

Theme_Keyword:

ESI

Theme_Keyword:

Sensitivity maps

Theme_Keyword:

Coastal resources

Theme_Keyword:

Oil spill planning

Theme_Keyword:

Coastal Zone Management

Theme_Keyword:

Wildlife

Theme_Keyword:

Bird

Theme:

Theme_Keyword_Thesaurus:

NOS Data Explorer Topic Category

Theme_Keyword:

Environmental Monitoring

Place:

Place_Keyword_Thesaurus:

None

Place_Keyword:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

*Program_Affiliation:**Program_Name:*

National Ocean Service Data Explorer

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

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

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. A final review is made by the GIS manager, where the data are written to CD/DVD 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 "resource 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 bird nesting, wintering, migratory staging and other spatial/temporal concentration areas. See also the NESTS data layer, part of the larger Southern California ESI database, for additional bird information. These data do not necessarily represent all bird occurrences in Southern California. 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*; 3, Red-throated loon, *Gavia stellata*; 6, Eared grebe, *Podiceps nigricollis*; 7, Western grebe, *Aechmophorus occidentalis*; 8, Double-crested cormorant, *Phalacrocorax auritus*; 9, Brandt's cormorant, *Phalacrocorax penicillatus*; 10, Pelagic cormorant, *Phalacrocorax pelagicus*; 12, Canada goose, *Branta canadensis*; 13, Brant, *Branta bernicla*; 14, Greater white-fronted goose, *Anser albifrons*; 15, Snow goose, *Chen caerulescens*; 16, Mallard, *Anas platyrhynchos*; 17, Northern pintail, *Anas acuta*; 18, Green-winged teal, *Anas crecca*; 20, Northern shoveler, *Anas clypeata*; 21, Canvasback, *Aythya valisineria*; 22, Greater scaup, *Aythya marila*; 23, Lesser scaup, *Aythya affinis*; 24, Common goldeneye, *Bucephala clangula*; 26, Bufflehead, *Bucephala albeola*; 30, Surf scoter, *Melanitta perspicillata*; 31, Pacific loon, *Gavia pacifica*; 33, Red-breasted merganser, *Mergus serrator*; 34, American coot, *Fulica americana*; 36, Glaucous-winged gull, *Larus glaucescens*; 37, Western gull, *Larus occidentalis*; 39, California gull, *Larus californicus*; 40, Ring-billed gull, *Larus delawarensis*; 42, Bonaparte's gull, *Larus philadelphia*; 43, Heermann's gull, *Larus heermanni*; 45, Common tern, *Sterna hirundo*; 46, Common murre, *Uria aalge*; 47, Pigeon guillemot, *Cephus columba*; 49, Cassin's auklet, *Ptychoramphus aleuticus*; 50, Rhinoceros auklet, *Cerorhinca monocerata*; 52, Wilson's phalarope, *Phalaropus tricolor*; 53, Red-necked phalarope, *Phalaropus lobatus*; 54, Great blue heron, *Ardea herodias*; 55, Whimbrel, *Numenius phaeopus*; 57, Wandering tattler, *Heteroscelus incanus*; 58, Greater yellowlegs, *Tringa melanoleuca*; 60, Red knot, *Calidris canutus*; 62, Least sandpiper, *Calidris minutilla*; 63, Dunlin, *Calidris alpina*; 64, Short-billed dowitcher, *Limnodromus griseus*; 65, Long-billed dowitcher, *Limnodromus scolopaceus*; 66, Western sandpiper, *Calidris mauri*; 67, Sanderling, *Calidris alba*; 68, Black oystercatcher, *Haematopus bachmani*; 69, Semipalmated plover, *Charadrius semipalmatus*; 70, Killdeer, *Charadrius vociferus*; 71, Black-bellied plover, *Pluvialis squatarola*; 72, Surfbird, *Aphriza virgata*; 73, Ruddy turnstone, *Arenaria interpres*; 74, Black turnstone, *Arenaria melanocephala*; 76, Bald eagle, *Haliaeetus leucocephalus*; 77, Osprey, *Pandion haliaetus*; 85, California least tern, *Sternula antillarum browni*; 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*; 96, Leach's storm-petrel, *Oceanodroma leucorhoa*; 97, Green heron, *Butorides virescens*; 100, Black-legged kittiwake, *Rissa tridactyla*; 107, Peregrine falcon, *Falco peregrinus*; 118, Brown pelican, *Pelecanus occidentalis*; 124, Redhead, *Aythya americana*; 129, Northern fulmar, *Fulmarus glacialis*; 131, White-tailed kite, *Elanus leucurus*; 133, Black skimmer, *Rynchops niger*; 134, Gull-billed tern, *Gelochelidon nilotica*; 136, Caspian tern, *Hydroprogne caspia*; 137, Royal tern, *Thalasseus maximus*; 138, Forster's tern, *Sterna forsteri*; 141, American avocet, *Recurvirostra americana*; 142, Black-necked stilt, *Himantopus mexicanus*; 143, Xantus's murrelet, *Synthliboramphus hypoleucus*; 144, Ashy storm-petrel, *Oceanodroma homochroa*; 145, Elegant tern, *Thalasseus elegans*; 146, Black storm-petrel, *Oceanodroma melania*; 148, Ruddy duck, *Oxyura jamaicensis*; 152, American oystercatcher, *Haematopus palliatus*; 155, Willet, *Catoptrophorus semipalmatus*; 160, Red phalarope, *Phalaropus fulicaria*; 162, Gadwall, *Anas strepera*; 163, Reddish egret, *Egretta rufescens*; 169, American wigeon, *Anas americana*; 172, Sandhill crane, *Grus canadensis*; 176, Short-eared owl, *Asio flammeus*; 179, Pied-billed grebe, *Podilymbus podiceps*; 181, Northern harrier, *Circus cyaneus*; 182, American kestrel, *Falco sparverius*; 187, Virginia rail, *Rallus limicola*; 188, Sora, *Porzana carolina*; 200, Sooty shearwater, *Puffinus griseus*; 202, Pink-footed shearwater, *Puffinus creatopus*; 205, Light-footed clapper rail, *Rallus longirostris levipes*; 209, Long-billed curlew, *Numenius americanus*; 210, Marbled godwit, *Limosa fedoa*; 216, Belted kingfisher, *Ceryle alcyon*; 220, Merlin, *Falco columbarius*; 225, Marsh wren, *Cistothorus palustris*; 230, Red-tailed hawk, *Buteo jamaicensis*; 239, Clark's grebe, *Aechmophorus clarkii*; 261, Brown booby, *Sula leucogaster*; 270, Western snowy plover, *Charadrius alexandrinus nivosus*; 271, Rails, n/a; 272, Teals, *Anas* sp.; 273, Geese, n/a;

278, Saltmarsh sharp-tailed sparrow, *Ammodramus caudacutus*; 286, Dowitchers, *Limnodromus* spp.; 299, Scaup, *Aythya* spp.; 302, Scoters, *Melanitta* spp.; 326, Jaegers, *Stercorarius* spp.; 345, Storm-petrels, *Oceanodroma* spp.; 349, Burrowing owl, *Athene cunicularia hypugea*; 387, Buteo hawks, *Buteo* spp.; 396, Phalaropes, *Phalaropus* spp.; 406, Cinnamon teal, *Anas cyanoptera*; 455, Yellow-billed cuckoo, *Coccyzus americanus*; 462, Loons, *Gavia* spp.; 646, Black-vented shearwater, *Puffinus opisthomelas*; 722, Common yellowthroat, *Geothlypis trichas*; 811, Willow flycatcher, *Empidonax traillii*; 851, Belding's savannah sparrow, *Passerculus sandwichensis beldingi*; 852, Buller's shearwater, *Puffinus bulleri*; 853, California horned lark, *Eremophila alpestris actia*; 854, Coastal California gnatcatcher, *Polioptila californica californica*; 855, Large-billed savannah sparrow, *Passerculus sandwichensis rostratus*; 856, Least Bell's vireo, *Vireo bellii pusillus*; 857, Ross's goose, *Chen rossii*; 1001, Gulls, n/a; 1002, Shorebirds, n/a; 1003, Waterfowl, n/a; 1004, Wading birds, n/a; 1005, Raptors, n/a; 1006, Diving birds, n/a; 1008, Terns, n/a; 1009, Shearwaters, n/a; 1010, Pelagic birds, n/a; 1013, Dabbling ducks, n/a; 1014, Diving ducks, n/a; 1015, Egrets, n/a; 1016, Herons, n/a; 1019, Sea ducks, n/a; 1021, Ducks, n/a; 1022, Seabirds, n/a; 1024, Alcids, n/a; 1026, Grebes, n/a; 1035, Pelicans, *Pelecanus* spp.; 1037, Cormorants, *Phalacrocorax* spp.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

AVERY, J. (USFWS)

Publication_Date:

2009

Title:

USFWS RESOURCES IN SAN DIEGO AND ORANGE
COUNTIES

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:
BOLSA CHICA CONSERVANCY
Publication_Date:
2000
Title:
BOLSA CHICA CONSERVANCY BIRDER'S GUIDE
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Online_Linkage:
<http://bolsachica.org/Birders/index.html>

Type_of_Source_Media:
paper

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2000

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
BOYCE, J. (NOAA)
Publication_Date:
2009
Title:
PELAGIC BIRDS
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
PERSONAL COMMUNICATION

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 BRUBAKER, D. (USFWS)
Publication_Date:
 2009
Title:
 NATIONAL WILDLIFE REFUGE RESOURCES IN SOUTHERN
 CALIFORNIA
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:
 CALIFORNIA DEPARTMENT OF PARKS AND REC (CDPR)
 AND WOLF, S.
Publication_Date:
 2008
Title:
 DATA FOR WSP SURVEYS FOR CDPR
Geospatial_Data_Presentation_Form:
 spreadsheet
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2008
Ending_Date:
 2008
Source_Currentness_Reference:
 DATE OF SURVEY

Source_Citation_Abbreviation:
 NONE

Source_Contribution:
 BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
 CAPITOLO, P.J., J.N. DAVIS, L.A. HENKEL, W.B. TYLER, AND
 H.R. CARTER

Publication_Date:
 2008

Title:
 AERIAL PHOTOGRAPHIC SURVEYS OF BREEDING
 COLONIES OF BRANDT'S, DOUBLE-CRESTED, AND PELAGIC
 CORMORANTS IN SOUTHERN CALIFORNIA, 2005-2007.

Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT

Other_Citation_Details:
 UNPUBLISHED REPORT. UNIVERSITY OF CALIFORNIA,
 INSTITUTE OF MARINE SCIENCES, SANTA CRUZ,
 CALIFORNIA, 49 PP.

Type_of_Source_Media:
 EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:
Calendar_Date:
 2008

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 NONE

Source_Contribution:
 BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
 CARTER ET AL. 2008

Publication_Date:
 2008

Title:
 STATUS OF BREEDING SEABIRDS IN THE SAN MIGUEL
 ISLAND GROUP, CALIFORNIA.

Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT

Other_Citation_Details:
 UNPUBLISHED REPORT, CARTER BIOLOGICAL
 CONSULTING, VICTORIA, BRITISH COLUMBIA; AND
 CALIFORNIA INSTITUTE OF ENVIRONMENTAL STUDIES,
 DAVIS, CALIFORNIA. 131 P.

Type_of_Source_Media:
 CD-ROM

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:
 CARTER, H.R., G.J. MCCHESENEY, D.L. JAQUES, C.S. STRONG,
 M.W. PARKER, J.E. TAKEKAWA, D.L. JORY, AND D.L.
 WHITWORTH
Publication_Date:
 1992
Title:
 BREEDING POPULATIONS OF SEABIRDS IN CALIFORNIA,
 1989-1991. VOLUME I - POPULATION ESTIMATES, VOLUME
 II - COLONY MAPS AND APPENDICES
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Other_Citation_Details:
 PACIFIC OUTER CONTINENTAL SHELF REGION OF MMS,
 U.S. DOI; WASHINGTON, D.C., UNDER INTERAGENCY
 AGREEMENT NO. 14-12-001-30456 WITH THE USFWS
Type_of_Source_Media:
 paper
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 1989
Ending_Date:
 1991
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 CDF&G
Publication_Date:
 2009
Title:
 SHORT-EARED OWL
Geospatial_Data_Presentation_Form:
 document

Online_Linkage:
<http://www.dfg.ca.gov/wildlife/nongame/ssc/birds.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

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 CDF&G BIOGEOGRAPHIC DATA BRANCH

Publication_Date:
 2009

Title:
 CALIFORNIA NATURAL DIVERSITY DATABASE (CNDDDB)

Geospatial_Data_Presentation_Form:
 vector digital data

Publication_Information:
Publication_Place:
 SACRAMENTO, CA

Publisher:
 CDF&G BIOGEOGRAPHIC DATA BRANCH

Type_of_Source_Media:
 online

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009

Source_Currentness_Reference:
 DATE OF PUBLICATION

Source_Citation_Abbreviation:
 NONE

Source_Contribution:
 BIRDS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 CDF&G, OFFICE OF SPILL PREVENTION AND RESPONSE
 (OSPR), DEPARTMENT OF HOMELAND SECURITY (DHS),
 UNITED STATES COAST GUARD (USCG)

Publication_Date:
 2008

Title:
 AREA CONTINGENCY PLAN (ACP) SECTOR LOS

ANGELES/LONG BEACH; 2008 USCG SECTOR SAN DIEGO
AREA CONTINGENCY PLAN (ACP)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

USCG

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:

CHULA VISTA NATURE CENTER

Publication_Date:

2007

Title:

SWEETWATER MARSH NATIONAL WILDLIFE REFUGE

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

CHULA VISTA NATURE CENTER, FEBRUARY 2007

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2007

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

COOPER, D. S.

Publication_Date:

2006

Title:

ANNOTATED CHECKLIST OF EXTIRPATED,
REESTABLISHED, AND NEWLY-COLONIZED AVIAN TAXA

OF THE BALLONA VALLEY, LOS ANGELES COUNTY,
CALIFORNIA

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

BULL. SOUTHERN CALIFORNIA ACAD. SCI. 105(3), 2006, PP.
91-112

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

COOPER, D.S. (COOPER ECOLOGICAL MONITORING, INC.)

Publication_Date:

2006

Title:

APPENDIX B. BIRDS OF MALIBU LAGOON

Geospatial_Data_Presentation_Form:

document

Other_Citation_Details:

UNPUBLISHED

Online_Linkage:

http://www.cooperecological.com/birds_of_malibu_lagoon_8_06.htm

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

COOPER, E. (AVIAN RESEARCH ASSOCIATES)

Publication_Date:

2009

Title:
 SAN DIEGO COUNTY BIRDS
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 PERSONAL COMMUNICATION
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 DELITH, C. (USFWS)
Publication_Date:
 2009
Title:
 THREATENED/ENDANGERED (T/E) SPECIES IN VENTURA COUNTY
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
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Type_of_Source_Media:
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Source_Information:
Source_Citation:
Citation_Information:
Originator:
 FAULKNER, K., CHANNEL ISLANDS NATIONAL PARK (CINP)
Publication_Date:
 2009
Title:
 CHANNEL ISLANDS SPECIES DISTRIBUTION

Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
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Source_Time_Period_of_Content:
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Single_Date/Time:
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2009
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DATE OF COMMUNICATION
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BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
FOSTER, B. (AVIAN RESEARCH ASSOCIATES)
Publication_Date:
2009
Title:
SAN DIEGO COUNTY SPECIES
Geospatial_Data_Presentation_Form:
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Other_Citation_Details:
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Single_Date/Time:
Calendar_Date:
2009
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DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
GOLD, J. (CDF&G OSPR)
Publication_Date:
2009
Title:
SOCECON AND BIOLOGICAL RESOURCE DISTRIBUTION
FOR SANTA BARBARA AND VENTURA COUNTIES
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:
HAZARD, G. (USFWS)
Publication_Date:
2009
Title:
FEDERALLY PROTECTED RESOURCES IN SOUTHERN CALIFORNIA
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:
KIRSCHNER, E. (USFWS)
Publication_Date:
2009
Title:
USFWS RESOURCES IN SAN DIEGO AND ORANGE COUNTIES
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:

LENTZ (J.E.)

Publication_Date:

2006

Title:

INTRODUCTION TO BIRDS OF THE CALIFORNIA COAST

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

BERKELEY AND LOS ANGELES, CA

Publisher:

UNIVERSITY OF CALIFORNIA PRESS

Other_Citation_Details:

UNIVERSITY OF CALIFORNIA PRESS, BERKELEY AND LOS ANGELES, CA, 316 PP.

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

LIEBERMAN, C. (USFWS)

Publication_Date:

2009

Title:

DISTRIBUTION OF USFWS RESOURCES IN SAN DIEGO AND

ORANGE COUNTIES
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:
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Source_Currentness_Reference:
DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MAREK, J. (USFWS)
Publication_Date:
2009
Title:
THREATENED AND ENDANGERED SPECIES IN SANTA
BARBARA AND VENTURA COUNTIES
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:
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2009
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DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
MASON, MCCHESENEY, MCIVER, CARTER, TAKEKAWA,
GOLIGHTLY, ACKERMAN, ORTHMEYER, PERRY, YEE,
PIERSON, MCCRARY
Publication_Date:
2007
Title:

AT-SEA DISTRIBUTION AND ABUNDANCE OF SEABIRDS
OFF SOUTHERN CALIFORNIA: A 20-YEAR COMPARISON

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

STUDIES IN AVIAN BIOLOGY NO. 33. A PUBLICATION OF
THE COOPER ORNITHOLOGICAL SOCIETY

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2007

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

MCCHESNEY, G. (USFWS)

Publication_Date:

1994

Title:

RECORDED OBSERVATIONS OF BROWN PELICAN
BETWEEN 1992 AND 1994 ON SAN NICOLAS ISLAND

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

USFWS

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1992

Ending_Date:

1994

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL OCEANIC AND ATMOSPHERIC
ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE

(NOS), OFFICE OF RESPONSE AND RESTORATION (OR&R),
EMERGENCY RESPONSE DIVISION (ERD)

Publication_Date:

1995

Title:

SENSITIVITY OF COASTAL ENVIRONMENTS AND WILDLIFE
TO SPILLED OIL: SOUTHERN CALIFORNIA: BIRDS

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:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

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

Publication_Date:

2006

Title:

SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED
OIL: CENTRAL CALIFORNIA ATLAS

Geospatial_Data_Presentation_Form:

atlas

Publication_Information:

Publication_Place:

SEATTLE, WA

Publisher:

NOAA

Other_Citation_Details:

MONTEREY BAY NATIONAL MARINE SANCTUARY

(MBNMS), CDF&G OSPR, AND MONTEREY BAY
SANCTUARY FOUNDATION, NOAA 7600 SAND POINT WAY,
SEATTLE, WA 98115-6349

Online_Linkage:

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

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATIONAL PARK SERVICE

Publication_Date:

2009

Title:

CHANNEL ISLANDS NATIONAL PARK: ASHY STORM-
PETREL

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

<http://www.nps.gov/chis/naturescience/storm-petrel.htm>

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NATURESERVE

Publication_Date:

2009

Title:

WWW.NATURESERVE.ORG

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:<http://www.natureserve.org/>*Type_of_Source_Media:*

online

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

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*NOAA NATIONAL CENTERS FOR COASTAL OCEAN
SCIENCE (NCCOS)*Publication_Date:*

2005

*Title:*A BIOGEOGRAPHIC ASSESSMENT OF THE CHANNEL
ISLANDS NATIONAL MARINE SANCTUARY: A REVIEW OF
BOUNDARY EXPANSION CONCEPTS FOR NOAA'S
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HARDCOPY MAP

*Other_Citation_Details:*PREPARED BY NCCOS'S BIOGEOGRAPHY TEAM IN
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MEMORANDUM NOS NCCOS 21. 215 PP.*Type_of_Source_Media:*

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

2005

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

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

PAGE, G. POINT REYES BIRD OBSERVATORY (PRBO)

Publication_Date:

2005

Title:
SNOWY PLOVER LOCATIONS AND SEASONALILTY IN
CENTRAL CALIFORNIA

Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE

Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
PERSONAL COMMUNICATION

Source_Time_Period_of_Content:
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2005

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
BIRDS INFORMATION

Source_Information:

Source_Citation:
Citation_Information:
Originator:

PAGEL, J. (USFWS)

Publication_Date:
2009

Title:
RAPTOR DISTRIBUTION AND SEASONALITY IN SOUTHERN
CALIFORNIA

Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE

Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
PERSONAL COMMUNICATION

Source_Time_Period_of_Content:
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DATE OF COMMUNICATION

Source_Citation_Abbreviation:
NONE

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BIRDS INFORMATION

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Source_Citation:
Citation_Information:
Originator:

PEUGH, J. (SAN DIEGO AUDUBON)

Publication_Date:
2009

Title:
 SAN DIEGO COUNTY BIRDS
Geospatial_Data_Presentation_Form:
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Source_Citation_Abbreviation:
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Source_Citation:
Citation_Information:
Originator:
 POINT REYES BIRD OBSERVATORY
Publication_Date:
 2005
Title:
 SNOWY PLOVER AND SHOREBIRD DISTRIBUTION AND
 SEASONALITY
Geospatial_Data_Presentation_Form:
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Other_Citation_Details:
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Source_Citation_Abbreviation:
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Source_Information:
Source_Citation:
Citation_Information:
Originator:
 POVEY, D.
Publication_Date:
 2009
Title:
 OFFSHORE BIRDS, SOUTHERN CALIFORNIA

Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
EMAIL
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DATE OF COMMUNICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
PRYOR, D.
Publication_Date:
2009
Title:
SPECIES DISTRIBUTION, LOS ANGELES COUNTY
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
PERSONAL COMMUNICATION
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Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
RICHARDS, D., NATIONAL PARK SERVICE (NPS)
Publication_Date:
2009
Title:
CHANNEL ISLANDS SPECIES DISTRIBUTION
Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE
Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:
PERSONAL COMMUNICATION

Source_Time_Period_of_Content:
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Single_Date/Time:
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2009

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
ROBESON, D.

Publication_Date:
2002

Title:
MONTEREY BIRDS

Geospatial_Data_Presentation_Form:
HARDCOPY TEXT

Publication_Information:
Publication_Place:
CARMEL, CA,

Publisher:
MONTEREY PENINSULA AUDUBON SOCIETY

Other_Citation_Details:
MONTEREY PENINSULA AUDUBON SOCIETY, CARMEL, CA,
536 PP.

Type_of_Source_Media:
paper

Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
2002

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
RYAN ECOLOGICAL CONSULTING, LA AUDUBON, AND
SANTA MONICA BAY AUDUBON

Publication_Date:
2008

Title:

WORKING DRAFT: THE WESTERN SNOWY PLOVER IN LOS ANGELES COUNTY, CALIFORNIA: 2008 ANNUAL REPORT (JANUARY-SEPTEMBER)

Geospatial_Data_Presentation_Form:
HARDCOPY TEXT

Other_Citation_Details:
OCTOBER 17, 2008

Type_of_Source_Media:
paper

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:
RYAN, T.

Publication_Date:
2009

Title:
SNOWY PLOVER AND OTHER SPECIES DISTRIBUTION AND SEASONALITY IN SOUTHERN CALIFORNIA

Geospatial_Data_Presentation_Form:
EXPERT KNOWLEDGE

Other_Citation_Details:
UNPUBLISHED

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PERSONAL COMMUNICATION

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2009

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DATE OF COMMUNICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
BIRDS INFORMATION

Source_Information:

Source_Citation:
Citation_Information:

Originator:
RYAN, T. (RYAN ECOLOGICAL CONSULTING)

Publication_Date:
2009

Title:

SNOWY PLOVER WINTERING AND NESTING SITES AND
CONCENTRATIONS 2003-2009*Geospatial_Data_Presentation_Form:*

spreadsheet

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

paper

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

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

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

SCHALLMAN, B. (U.S. NAVY)

Publication_Date:

2009

Title:

SPECIES DISTRIBUTION ON U.S. NAVY PROPERTY

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

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DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

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

SHUFORD, W.D. AND GARDALI, T. EDITORS

Publication_Date:

2008

*Title:*CALIFORNIA BIRD SPECIES OF SPECIAL CONCERN: A
RANKED ASSESSMENT OF SPECIES, SUBSPECIES, AND

DISTINCT POPULATIONS OF BIRDS OF IMMEDIATE
CONSERVATION CONCERN IN CALIFORNIA.*Geospatial_Data_Presentation_Form:*

HARDCOPY TEXT

*Other_Citation_Details:*STUDIES OF WESTERN BIRDS 1. WESTERN FIELD
ORNITHOLOGISTS, CAMARILLO, CALIFORNIA, AND
CDF&G, SACRAMENTO.*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:*

SMITH, R.

Publication_Date:

2009

*Title:*SNOWY PLOVER, LEAST TERN, AND OTHER SPECIES SITES
IN SANTA BARBARA AND VENTURA COUNTIES*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:*

TIJUANA ESTUARY

Publication_Date:

2009

Title:
 WILDIFE MONITORING AT TIJUANA ESTUARY
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Online_Linkage:
http://trnerr.org/wild_monitor.html
Type_of_Source_Media:
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Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
 2007
Title:
 RECOVERY PLAN FOR THE PACIFIC COAST POPULATION
 OF THE WESTERN SNOWY PLOVER (CHARADRIUS
 ALEXANDRINUS NIVOSUS)
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Publication_Information:
Publication_Place:
 SACRAMENTO, CALIFORNIA
Publisher:
 U.S. FISH AND WILDLIFE SERVICE
Other_Citation_Details:
 IN 2 VOLUMES. SACRAMENTO, CALIFORNIA. XIV + 751
 PAGES
Type_of_Source_Media:
 paper
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2007
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
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Source_Information:
Source_Citation:

*Citation_Information:**Originator:*

U.S. FISH AND WILDLIFE SERVICE

Publication_Date:

2007

*Title:*RECOVERY PLAN FOR THE PACIFIC COAST POPULATION
OF THE WESTERN SNOWY PLOVER (CHARADRIUS
ALEXANDRINUS NIVOSUS). IN 2 VOLUMES*Geospatial_Data_Presentation_Form:*

document

*Publication_Information:**Publication_Place:*

SACRAMENTO, CA

Publisher:

U.S. FISH AND WILDLIFE SERVICE

Online_Linkage:<http://www.fws.gov/cno/es/recoveryplans.html>*Type_of_Source_Media:*

online

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

2007

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

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

U.S. FISH AND WILDLIFE SERVICE

Publication_Date:

2009

*Title:*ATLAS OF CALIFORNIA BROWN PELICAN ROOST SITES ON
THE SOUTHERN CALIFORNIA MAINLAND*Geospatial_Data_Presentation_Form:*

atlas

*Publication_Information:**Publication_Place:*

CARLSBAD, CA

Publisher:

U.S. FISH AND WILDLIFE SERVICE

*Other_Citation_Details:*TECHNICAL REPORT CFWO-EC 2009-1. U.S. FISH AND
WILDLIFE SERVICE, CARLSBAD, CA. 61 PAGES +
APPENDICES.*Type_of_Source_Media:*

paper

Source_Time_Period_of_Content:

Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
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 BIRDS INFORMATION
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Source_Citation:
Citation_Information:
Originator:
 US NAVY
Publication_Date:
 2008
Title:
 BRANDTS CORMORANT ROOST
Geospatial_Data_Presentation_Form:
 vector digital data
Other_Citation_Details:
 DELINEATES THE EXTENT OF BRANDTS CORMORANT
 ROOSTS ON SAN NICOLAS ISLAND FOR THE YEAR 1994
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
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 1994
Ending_Date:
 2008
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 DATE OF SURVEY
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 BIRDS INFORMATION
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Citation_Information:
Originator:
 USFWS
Publication_Date:
 2009
Title:
 LIGHT-FOOTED CLAPPER RAIL
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Online_Linkage:
<http://www.fws.gov/bolsachica/LFCRacntBC.htm>
Type_of_Source_Media:
 online
Source_Time_Period_of_Content:

Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
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 NONE
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 USFWS
Publication_Date:
 1998
Title:
 CHECKLIST OF BIRDS OF NAVAL WEAPONS STATION SEAL
 BEACH NATIONAL WILDLIFE REFUGE.
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Other_Citation_Details:
 USFWS. JAMESTOWN, ND: NORTHERN PRAIRIE WILDLIFE
 RESEARCH CENTER ONLINE.
<http://www.npwrc.usgs.gov/resource/birds/chekbird/r1/seal.htm>
Online_Linkage:
<http://www.npwrc.usgs.gov/>
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
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 NONE
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 USFWS
Publication_Date:
 2004
Title:
 BELDING'S SAVANNAH SPARROW
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Online_Linkage:
<http://www.fws.gov/bolsachica/BSSacentBC.htm>
Type_of_Source_Media:

online
Source_Time_Period_of_Content:
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 Calendar_Date:
 2004
 Source_Currentness_Reference:
 DATE OF PUBLICATION
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 NONE
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
 Source_Citation:
 Citation_Information:
 Originator:
 USFWS
 Publication_Date:
 2008
 Title:
 CALIFORNIA LEAST TERN PRODUCTIVITY IN 2008
 Geospatial_Data_Presentation_Form:
 spreadsheet
 Other_Citation_Details:
 UNPUBLISHED
 Type_of_Source_Media:
 paper
 Source_Time_Period_of_Content:
 Time_Period_Information:
 Single_Date/Time:
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 DATE OF SURVEY
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 NONE
 Source_Contribution:
 BIRDS INFORMATION
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 Source_Citation:
 Citation_Information:
 Originator:
 USFWS
 Publication_Date:
 1999
 Title:
 TIJUANA SLOUGH NATIONAL WILDLIFE REFUGE: TIJUANA
 RIVER NATIONAL ESTUARINE RESEARCH RESERVE
 BIRDLIST
 Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
 Other_Citation_Details:
 TIJUANA SLOUGH NWR, 11 PP.
 Type_of_Source_Media:
 online

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
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 1999
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
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Source_Citation:
Citation_Information:
Originator:
 USFWS CARLSBAD OFFICE
Publication_Date:
 2009
Title:
 SAN DIEGO COUNTY FEDERALLY LISTED SPECIES
 DISTRIBUTION AND SEASONALITY INFORMATION
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
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 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 BIRDS INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 WHITWORTH, D.L., H.R. CARTER, J.S. KOEPKE, AND F.
 GRESS.
Publication_Date:
 2008
Title:
 NEST MONITORING OF XANTUS'S MURRELETS AT
 ANACAPA ISLAND. CALIFORNIA: 2007 REPORT.
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Publication_Information:
Publication_Place:
 DAVIS, CALIFORNIA
Publisher:

CALIFORNIA INSTITUTE OF ENVIRONMENTAL
STUDIES

Other_Citation_Details:

PREPARED FOR THE AMERICAN TRADER TRUSTEE
COUNCIL AND CINP. 33 PP.

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:

WOLF, S. (BIOLOGICAL CONSULTANT FOR BATIQUITOS
LAGOON AND STATE BEACHES)

Publication_Date:

2009

Title:

SAN DIEGO COUNTY BIRDS

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

BIRDS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

ZEINER, D.C., W.F. LAUDENSLAYER, JR., K.E. MAYER, AND
M. WHITE.

Publication_Date:

1990

Title:

LIFE HISTORY ACCOUNTS FOR SPECIES IN THE

CALIFORNIA WILDLIFE HABITAT RELATIONSHIPS (CWHR)
SYSTEM. CAL'S WILDLIFE. VOL. I-III.

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

SACRAMENTO, CA.

Publisher:

CALIFORNIA DEPT. OF FISH AND GAME

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1990

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 nest distribution and seasonality for this data layer: 1) personal interviews with resource experts from U.S. Fish and Wildlife Service (USFWS), U.S. Navy, the Audubon Society, Ryan Ecological Consulting, California State Parks (CSP), Avian Research Associates, National Park Service (NPS), California Department of Fish and Game (CDF&G), and NOAA; 2) hardcopy documents provided/published by: Carter Biological Consulting, University of California Press, USFWS, U.S. Geological Survey (USGS), CDF&G, Ryan Ecological Consulting, NOAA, CSP; and 3) digital data provided by: U.S. Navy, CDF&G, and NOAA. 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:

201003

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:
 2845
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Area point
Point_and_Vector_Object_Count:
 2846
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Complete chain
Point_and_Vector_Object_Count:
 6544
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Link
Point_and_Vector_Object_Count:
 403033
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Node,planar graph
Point_and_Vector_Object_Count:
 4329

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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, roosting, migratory staging, and wintering sites. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209), 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:

2090100002

Range_Domain_Maximum:

2090103227

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:

209000001

Range_Domain_Maximum:

209000956

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

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

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

209000001

Range_Domain_Maximum:

209001289

*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 (209), 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:*

2090100002

Range_Domain_Maximum:

2092200052

*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:

209000001

Range_Domain_Maximum:

209001289

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

CONC

Attribute_Definition:

The field CONC refers to concentration, abundance, or density values, and may contain counts of individuals for each species present at a particular site, or a term that describes relative abundance of birds at a particular site. The field may contain counts or a range of counts of individuals, pairs, or nests (XX-XX BIRDS or PAIRS or NESTS). In cases where no quantitative count information was available, the field may contain descriptive terms such as "COMMON" or "HIGH" or "RARE", or a concentration approximation, such as "100s". If no concentration information was available from any source, the field was populated with "-". Counts were derived from a variety of surveys, and may range in date (see Lineage).

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

alcid

Enumerated_Domain_Value_Definition:

Alcid

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:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 canine
Enumerated_Domain_Value_Definition:
 Canine
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 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:
 fish
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 freshwater

Enumerated_Domain_Value_Definition:
 Freshwater fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gastropod
Enumerated_Domain_Value_Definition:
 Gastropod
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gull_tern
Enumerated_Domain_Value_Definition:
 Gull or tern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 insect
Enumerated_Domain_Value_Definition:
 Insect
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 kelp
Enumerated_Domain_Value_Definition:
 Kelp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
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:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pinniped
Enumerated_Domain_Value_Definition:
 Pinniped
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 plant
Enumerated_Domain_Value_Definition:
 Plant
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 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:
 sea_otter
Enumerated_Domain_Value_Definition:
 Sea otter
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:
 upland
Enumerated_Domain_Value_Definition:
 Upland vegetation
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

waterfowl

Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

wetland

Enumerated_Domain_Value_Definition:

Wetland

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

whale

Enumerated_Domain_Value_Definition:

Whale

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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

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

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

JAN

Attribute_Definition:

January

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in January

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

FEB

Attribute_Definition:

February

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in February

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAR

Attribute_Definition:

March

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in March

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

APR

Attribute_Definition:

April

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in April

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

MAY

Attribute_Definition:

May

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in May

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

JUN

Attribute_Definition:

June

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in June

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUL

Attribute_Definition:

July

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in July

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

AUG

Attribute_Definition:

August

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in August

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SEP

Attribute_Definition:

September

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in September

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

OCT

Attribute_Definition:

October

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

X

Enumerated_Domain_Value_Definition:

Present in October

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BREED

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED2

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED3

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED4

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED5

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

*Entity_Type:**Entity_Type_Label:*

STATUS

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 REPTILE

Enumerated_Domain_Value_Definition:
 Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T_MAMMAL

Enumerated_Domain_Value_Definition:
 Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
Attribute_Label:
 SPECIES_ID

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

Attribute_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum:
 1

Range_Domain_Maximum:
 N

Attribute:
Attribute_Label:
 STATE

Attribute_Definition:
 Two-letter state abbreviation.

Attribute_Definition_Source:
 NOAA ESI Guidelines

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

Attribute:
Attribute_Label:
 COUNTRY

Attribute_Definition:
 Three-letter country abbreviation.

Attribute_Definition_Source:
 NOAA ESI Guidelines

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

Attribute:
Attribute_Label:
 S

Attribute_Definition:

State threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E

Enumerated_Domain_Value_Definition:

Endangered on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T

Enumerated_Domain_Value_Definition:

Threatened on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

F

Attribute_Definition:

Federal threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E

Enumerated_Domain_Value_Definition:

Endangered on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T

Enumerated_Domain_Value_Definition:

Threatened on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

C

Enumerated_Domain_Value_Definition:
Species of Special Concern
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

S_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

F_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SOURCES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
 DATA_FORMAT
Attribute_Definition:
 The format of the source material.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
 PUB_PLACE
Attribute_Definition:
 Publication place.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
 PUBLISHER
Attribute_Definition:
 Publisher.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
 PUBLICATION
Attribute_Definition:
 Additional citation information.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
 ONLINE_LINK
Attribute_Definition:
 Online computer resource URL.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
 Acceptable values change from atlas to atlas.

Attribute:
Attribute_Label:
 SCALE
Attribute_Definition:
 Description of the source scale.
Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*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 Southern California atlas, the number is 209), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files 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 in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure, does NOT include the BIOFILE data table, and this data table is NOT

described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines

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

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

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 a wider community of GIS/mapping users. Distribution formats include ARC export, MOSS and Shape files, and MARPLOT map folders. An ArcView ESI project and ESI_Viewer product are also included on the distribution CDs 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:

20100927

Metadata_Review_Date:

20100927

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/metadatarresource/metadatarreferences/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: Southern California: NESTS (Nest Points)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for nesting and roosting gulls, terns, seabirds, shorebirds, and T/E species in Southern California. Vector points in this data set represent bird nesting and roosting 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 Southern California. 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 Southern California 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:

1989

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 1989 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 "resource 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 hardcopy documents on nesting and roosting sites. See also the BIRDS data layer, part of the larger Southern California ESI database, for additional bird information. These data do not necessarily represent all nest occurrences in Southern California. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 9, Brandt's cormorant, *Phalacrocorax penicillatus*; 37, Western gull, *Larus occidentalis*; 47, Pigeon guillemot, *Cephus columba*; 68, Black oystercatcher, *Haematopus bachmani*; 77, Osprey, *Pandion haliaetus*; 270, Western snowy plover, *Charadrius alexandrinus nivosus*.

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:

CARTER, H.R., G.J. MCCHESENEY, D.L. JAQUES, C.S.
STRONG, M.W. PARKER, J.E. TAKEKAWA, D.L. JORY,
AND D.L. WHITWORTH

Publication_Date:

1992

Title:

BREEDING POPULATIONS OF SEABIRDS IN
CALIFORNIA, 1989-1991. VOLUME I - POPULATION
ESTIMATES, VOLUME II - COLONY MAPS AND
APPENDICES

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

PACIFIC OUTER CONTINENTAL SHELF REGION OF
MMS, U.S. DOI; WASHINGTON, D.C., UNDER
INTERAGENCY AGREEMENT NO. 14-12-001-30456
WITH THE USFWS

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

1989

Ending_Date:

1991

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

LENTZ (J.E.)

Publication_Date:

2006

Title:

INTRODUCTION TO BIRDS OF THE CALIFORNIA
COAST

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

BERKELEY AND LOS ANGELES, CA

Publisher:

UNIVERSITY OF CALIFORNIA PRESS

Other_Citation_Details:

UNIVERSITY OF CALIFORNIA PRESS, BERKELEY
AND LOS ANGELES, CA, 316 PP.

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

NESTS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

MAREK, J. (USFWS)

Publication_Date:

2009

Title:

THREATENED AND ENDANGERED SPECIES IN
SANTA BARBARA AND VENTURA COUNTIES

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

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RYAN, T.

Publication_Date:

2009

Title:

SNOWY PLOVER AND OTHER SPECIES
DISTRIBUTION AND SEASONALITY IN SOUTHERN
CALIFORNIA

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

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SMITH, R.

Publication_Date:

2009

Title:

SNOWY PLOVER, LEAST TERN, AND OTHER
SPECIES SITES IN SANTA BARBARA AND VENTURA
COUNTIES

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 USFWS and private consultants, and 2) published and unpublished reports provided by consultants. 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:

201003

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:

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State_or_Province:

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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:

Entity point

Point_and_Vector_Object_Count:

12

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

NESTS.PAT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209),

element number (5), and record number.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2090500001

Range_Domain_Maximum:

2090500012

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

209000019

Range_Domain_Maximum:

209000214

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

209000001

Range_Domain_Maximum:

209001289

*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 (209), 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:*

2090100002

Range_Domain_Maximum:

2092200052

*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:*

209000001

Range_Domain_Maximum:

209001289

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

CONC

Attribute_Definition:

The field CONC refers to concentration, abundance, or density values, and may contain counts of individuals for each species present at a particular nesting or roosting site. If no concentration information was available from any source, the field is populated with "-". Counts were derived from a variety of surveys, and may range in date (see Lineage).

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

S_SOURCE*Attribute_Definition:*

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

alcid

Enumerated_Domain_Value_Definition:

Alcid

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:*

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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:*

fish

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gastropod

Enumerated_Domain_Value_Definition:

Gastropod

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gull_tern

Enumerated_Domain_Value_Definition:

Gull or tern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

insect

Enumerated_Domain_Value_Definition:

Insect

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

kelp

Enumerated_Domain_Value_Definition:

Kelp

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

lizard

Enumerated_Domain_Value_Definition:

Lizard

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:*

passerine

Enumerated_Domain_Value_Definition:

Passerine bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

pelagic

Enumerated_Domain_Value_Definition:

Pelagic bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

pinniped

Enumerated_Domain_Value_Definition:

Pinniped

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

plant

Enumerated_Domain_Value_Definition:

Plant

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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:
 sea_otter
Enumerated_Domain_Value_Definition:
 Sea otter
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:*

upland

Enumerated_Domain_Value_Definition:

Upland vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

waterfowl

Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

wetland

Enumerated_Domain_Value_Definition:

Wetland

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

whale

Enumerated_Domain_Value_Definition:

Whale

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NHP

Attribute_Definition:

Natural Heritage Program global ranking.

Attribute_Definition_Source:

Network of Natural Heritage Program

Attribute_Domain_Values:

*Codeset_Domain:**Codeset_Name:*

NHP Global Conservation Status Rank

Codeset_Source:

Natural Heritage Program

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

Date of NHP listing.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SEASONAL

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

JAN

Attribute_Definition:

January

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in January

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

FEB

Attribute_Definition:

February

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in February

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MAR

Attribute_Definition:

March

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in March

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

APR

Attribute_Definition:

April

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

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

Attribute:

Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUN
Attribute_Definition:
June
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in June
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
JUL
Attribute_Definition:
July
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in July
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

AUG

Attribute_Definition:

August

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in August

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SEP

Attribute_Definition:

September

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in September

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

OCT

Attribute_Definition:

October

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in October

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

BREED

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

MONTH

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

12

*Attribute:**Attribute_Label:*

BREED1

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED2

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED3

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED4

Attribute_Definition:

Life history stage or activity type, where: if ELEMENT is "FISH" then

BREED4 = juveniles; if ELEMENT is "INVERT" then BREED4 = juveniles; if ELEMENT is "REPTILE" then BREED4 = juveniles; if ELEMENT is "M_MAMMAL" then BREED4 = molting. This attribute is not used for BIRD, HABITAT, or T_MAMMAL elements.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

STATUS

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

STATE

Attribute_Definition:

Two-letter state abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

COUNTRY

Attribute_Definition:

Three-letter country abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

S

Attribute_Definition:

State threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E

Enumerated_Domain_Value_Definition:

Endangered on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T

Enumerated_Domain_Value_Definition:

Threatened on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

F

Attribute_Definition:

Federal threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

S_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

F_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

I_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SOURCES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:*

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

TIME_PERIOD*Attribute_Definition:*

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*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 Southern California atlas, the number is 209), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files 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 in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies

should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure, does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines

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

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

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.

[Back To Index](#)

Metadata_Reference_Information:

Metadata_Date:

20100927

Metadata_Review_Date:

20100927

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/metadatarresource/metadatarreferences/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: Southern California: FISH (Fish Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

*Description:**Abstract:*

This data set contains sensitive biological resource data for beach spawners and sensitive marine, estuarine, and anadromous species in Southern California. Vector polygons in this data set represent concentration areas, spawning areas, and sensitive species 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 Southern California. 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 FISHL data layer, part of the larger Southern California ESI database, for additional fish information.

Purpose:

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

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

2000

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 2000 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:*

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

*Program_Affiliation:**Program_Name:*

National Ocean Service Data Explorer

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

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

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. A final review is made by the GIS manager, where the data are written to CD/DVD 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 "resource 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 concentration areas, spawning areas, and sensitive species locations for fish. See also the FISHL data layer, part of the larger Southern California ESI database, for additional fish information. These data do not necessarily represent all fish occurrences in Southern California. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 74, Rainbow trout, *Oncorhynchus mykiss*; 106, California grunion, *Leuresthes tenuis*; 226, Tidewater goby, *Eucyclogobius newberryi*; 513, Pacific seahorse, *Hippocampus ingens*; 1142, Arroyo chub, *Gila orcuttii*; 1143, Intertidal fish, 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:

CDF&G, OFFICE OF SPILL PREVENTION AND RESPONSE (OSPR), DEPARTMENT OF HOMELAND SECURITY (DHS), UNITED STATES COAST GUARD (USCG)

Publication_Date:

2008

Title:

AREA CONTINGENCY PLAN (ACP) SECTOR LOS ANGELES/LONG BEACH; 2008 USCG SECTOR SAN DIEGO AREA CONTINGENCY PLAN (ACP)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:
USCG
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:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
DAME, N. (SFSU)
Publication_Date:
2000
Title:
BIOGEOGRAPHY OF THE PACIFIC SEAHORSE
(HIPPOCAMPUS INGENS)
Geospatial_Data_Presentation_Form:
document
Online_Linkage:
<http://bss.sfsu.edu/holzman/courses/Fall100Projects/seahorse.html>
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2000
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
DELITH, C. (USFWS)
Publication_Date:
2009
Title:
THREATENED/ENDANGERED (T/E) SPECIES IN
VENTURA COUNTY
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:*DRILL, S. (UC COOPERATIVE EXTENSION NATURAL
RESOURCE PROGRAM LA AND VENTURA COUNTIES)*Publication_Date:*

2009

*Title:*SOUTHERN CALIFORNIA SPECIES PROFILE: ARROYO
CHUB*Geospatial_Data_Presentation_Form:*

HARDCOPY TEXT

Online_Linkage:http://celosangeles.ucdavis.edu/natural_resources/*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:*ENGLE, J. UNIVERSITY OF CALIFORNIA SANTA
BARBARA (UCSB)*Publication_Date:*

2009

Title:

INTERTIDAL HABITATS AND SPECIES

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:

FOSTER, B. (AVIAN RESEARCH ASSOCIATES)

Publication_Date:

2009

Title:

SAN DIEGO COUNTY SPECIES

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:

KIRSCHNER, E. (USFWS)

Publication_Date:

2009

Title:

USFWS RESOURCES IN SAN DIEGO AND ORANGE

COUNTIES

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:

KRONINGER, M. (CDF&G, OSPR)

Publication_Date:

2009

Title:

DISTRIBUTION OF BIOLOGICAL AND SOCECON
RESOURCES IN LA AND ORANGE COUNTIES

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:

MARTIN, K. (PEPPERDINE UNIVERSITY)

Publication_Date:

2009

Title:

EDITS AND ADDITIONS TO CALIFORNIA GRUNION
DISTRIBUTION AND SEASONALITY IN SOUTHERN
CALIFORNIA

Geospatial_Data_Presentation_Form:
HARDCOPY TEXT

Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
MARTIN, K. (PEPPERDINE)

Publication_Date:
2006

Title:
INTRODUCTION TO GRUNION BIOLOGY

Geospatial_Data_Presentation_Form:
document

Other_Citation_Details:
K. MARTIN, 2006, P. 5

Type_of_Source_Media:
online

Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
2006

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
MARTIN, K. (PEPPERDINE) AND GRUNION.ORG

Publication_Date:
2009

Title:
SOUTHERN CALIFORNIA GRUNION RUNS
Geospatial_Data_Presentation_Form:
spreadsheet
Other_Citation_Details:
UNPUBLISHED
Type_of_Source_Media:
EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009
Source_Currentness_Reference:
DATE OF SURVEY
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
PRYOR, D.
Publication_Date:
2009
Title:
SPECIES DISTRIBUTION, LOS ANGELES COUNTY
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 PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
FISH INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
2005
Title:

RECOVERY PLAN FOR THE TIDEWATER GOBY
(EUCYCLOGOBIUS NEWBERRYI).

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

PORTLAND, OREGON

Publisher:

U.S. FISH AND WILDLIFE SERVICE

Other_Citation_Details:

U.S. FISH AND WILDLIFE SERVICE, PORTLAND,
OREGON. VI + 199 PP.

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2005

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

FISH INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNIVERSITY OF CALIFORNIA SANTA BARBARA,
MARINE LIFE PROTECTION ACT (UCSB MLPA)

Publication_Date:

2009

Title:

GRUNION SPAWN

Geospatial_Data_Presentation_Form:

vector digital data

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

FISH INFORMATION

Process_Step:

Process_Description:

Three main sources of data were used to depict fish distribution and seasonality for this data layer: 1) personal interviews with resource experts from the U.S. Fish and Wildlife Service (USFWS), California State Parks (CSP), University of California Santa Barbara (UCSB), Avian Research Associates, Pepperdine University, California Department of Fish and Game (CDF&G) Office of Spill Prevention and Response (OSPR); 2) published reports provided by USFWS, CDF&G; and 3) digital data provided by: UCSB Marine Life Protection Act Initiative (MLPA/MarineMap). 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:

201003

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

Vector

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

GT-polygon composed of chains

Point_and_Vector_Object_Count:

1283

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

1284

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

2759

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

143875

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node,planar graph

Point_and_Vector_Object_Count:

1872

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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 concentration areas, spawning areas, and sensitive species locations. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209), 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:*

2090200002

Range_Domain_Maximum:

2090201296

*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:*

209000957

Range_Domain_Maximum:

209001024

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

BIO_LUT

Entity_Type_Definition:

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

structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

209000001

Range_Domain_Maximum:

209001289

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 (209), 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:

2090100002

Range_Domain_Maximum:

2092200052

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:*

209000001

Range_Domain_Maximum:

209001289

*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 concentration information was available for fish, so the CONC field may contain descriptive terms for the presence of a species, such as "LIKELY", or descriptive terms for the possibility of fish runs, such as "FREQUENT-LARGE-RUNS" or "OCCASIONAL-RUNS". If no concentration information was available from any source, the field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

G_SOURCE*Attribute_Definition:*

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

S_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

alcid

Enumerated_Domain_Value_Definition:

Alcid

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:*

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
canine
Enumerated_Domain_Value_Definition:
Canine
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

freshwater
Enumerated_Domain_Value_Definition:
 Freshwater fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gastropod
Enumerated_Domain_Value_Definition:
 Gastropod
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gull_tern
Enumerated_Domain_Value_Definition:
 Gull or tern
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 insect
Enumerated_Domain_Value_Definition:
 Insect
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 kelp
Enumerated_Domain_Value_Definition:
 Kelp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
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:*

passerine

Enumerated_Domain_Value_Definition:

Passerine bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

pelagic

Enumerated_Domain_Value_Definition:

Pelagic bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

pinniped

Enumerated_Domain_Value_Definition:

Pinniped

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

plant

Enumerated_Domain_Value_Definition:

Plant

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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:*

sea_otter

Enumerated_Domain_Value_Definition:

Sea otter

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:

upland

Enumerated_Domain_Value_Definition:

Upland vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

waterfowl

Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

whale

Enumerated_Domain_Value_Definition:

Whale

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

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 and ESI_SOURCE in the ESI and HYDRO data layers.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*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 Southern California atlas, the number is 209), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files 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 in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file

eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure, does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

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:

20100927

Metadata_Review_Date:

20100927

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/metadatarsource/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: Southern California: FISHL (Fish Lines)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Southern California: FISHL (Fish Lines)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for
threatened/endangered/rare and/or anadromous fish species in Southern California.
Vector lines in this data set represent threatened/endangered/rare and/or anadromous
fish species in streams and rivers. 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 Southern California. 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 FISH data layer, part of
the larger Southern California ESI database, for additional fish 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:

2005

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 "resource 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 available hardcopy documents on threatened/endangered/rare and/or anadromous fish species in streams and rivers. See also the FISH data layer, part of the larger Southern California ESI database, for additional fish information. These data do not necessarily represent all fish occurrences in Southern California. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 74, Rainbow trout, *Oncorhynchus mykiss*; 226, Tidewater goby, *Eucyclogobius newberryi*; 1142, Arroyo chub, *Gila orcuttii*.

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:

AVERY, J. (USFWS)

Publication_Date:

2009

Title:

USFWS RESOURCES IN SAN DIEGO AND ORANGE COUNTIES

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:

FISHL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

CDF&G, OFFICE OF SPILL PREVENTION AND RESPONSE (OSPR), DEPARTMENT OF HOMELAND SECURITY (DHS), UNITED STATES COAST GUARD (USCG)

Publication_Date:

2008

Title:

AREA CONTINGENCY PLAN (ACP) SECTOR LOS ANGELES/LONG BEACH; 2008 USCG SECTOR SAN DIEGO AREA CONTINGENCY PLAN (ACP)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

USCG

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:
FISHL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

DELITH, C. (USFWS)

Publication_Date:

2009

Title:

THREATENED/ENDANGERED (T/E) SPECIES IN
VENTURA COUNTY

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:

FISHL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

DRILL, S. (UC COOPERATIVE EXTENSION NATURAL
RESOURCE PROGRAM LA AND VENTURA
COUNTIES)

Publication_Date:

2009

Title:

SOUTHERN CALIFORNIA SPECIES PROFILE:
ARROYO CHUB

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

http://celosangeles.ucdavis.edu/natural_resources/

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:
 FISHL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 PRYOR, D.
Publication_Date:
 2009
Title:
 SPECIES DISTRIBUTION, LOS ANGELES COUNTY
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 PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 FISHL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 U.S. FISH AND WILDLIFE SERVICE
Publication_Date:
 2005
Title:
 RECOVERY PLAN FOR THE TIDEWATER GOBY
 (EUCYCLOGOBIUS NEWBERRYI)
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Publication_Information:

Publication_Place:
PORTLAND, OREGON

Publisher:
U.S. FISH AND WILDLIFE SERVICE

Other_Citation_Details:
U.S. FISH AND WILDLIFE SERVICE, PORTLAND,
OREGON. VI + 199 PP.

Type_of_Source_Media:
paper

Source_Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date:
2005

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
FISHL 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 the U.S. Fish and Wildlife Service (USFWS) and California State Parks (CSP), and 2) published reports provided by USFWS and California Department of Fish and Game (CDF&G). The above digital and/or hardcopy sources were compiled by the project biologist to create the FISHL 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 FISHL data layer are made based on the recommendations of the resource experts, and final hardcopy maps and digital data are created.

Process_Date:
201003

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:
 52
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Link
Point_and_Vector_Object_Count:
 246
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
 Node,planar graph
Point_and_Vector_Object_Count:
 89

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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:

FISHL.AAT

Entity_Type_Definition:

The FISHL.AAT table contains attribute information for the vector lines in this data set representing threatened/endangered/rare and/or anadromous fish species in streams and rivers. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209), element number (22), and record number.

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

2092200002

Range_Domain_Maximum:

2092200052

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

209000957

Range_Domain_Maximum:

209001002

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

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

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

209000001

Range_Domain_Maximum:

209001289

*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 (209), element number (22), 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:*

2090100002

Range_Domain_Maximum:

2092200052

*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:

209000001

Range_Domain_Maximum:

209001289

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 concentration information was available for fish, so the CONC field may contain descriptive terms for the presence of a species, such as "LIKELY", or descriptive terms for the possibility of fish runs, such as "FREQUENT-LARGE-RUNS" or "OCCASIONAL-RUNS". If no concentration information was available from any source, the field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

S_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

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

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 HABITAT
 Enumerated_Domain_Value_Definition:
 Habitats and plants
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 INVERT
 Enumerated_Domain_Value_Definition:
 Invertebrates
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

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

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

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SPECIES

Entity_Type_Definition:

The data table SPECIES identifies all species in the ESI data set. See the Browse_Graphic section for a link to the entity-relationship diagram,

which describes the way this table relates to other attribute tables in the ESI data structure. Refer to the Completeness_Report for a list of layer-specific species.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

alcid

Enumerated_Domain_Value_Definition:

Alcid

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:*

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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:

fish

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gastropod

Enumerated_Domain_Value_Definition:

Gastropod

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gull_tern

Enumerated_Domain_Value_Definition:

Gull or tern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
lizard
Enumerated_Domain_Value_Definition:
Lizard
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:
passerine
Enumerated_Domain_Value_Definition:
Passerine bird
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:

pelagic

Enumerated_Domain_Value_Definition:

Pelagic bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

pinniped

Enumerated_Domain_Value_Definition:

Pinniped

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

plant

Enumerated_Domain_Value_Definition:

Plant

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

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:

sea_otter

Enumerated_Domain_Value_Definition:

Sea otter

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:*

upland

Enumerated_Domain_Value_Definition:

Upland vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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

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

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

Attribute:
Attribute_Label:
 DATE_PUB
Attribute_Definition:
 Date of NHP listing.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 YYYYMM
Enumerated_Domain_Value_Definition:
 YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

0

Enumerated_Domain_Value_Definition:

Date unspecified

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SEASONAL

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

JAN

Attribute_Definition:

January

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in January

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

FEB

Attribute_Definition:

February

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in February
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
MAR
Attribute_Definition:
March
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in March
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
APR
Attribute_Definition:
April
Attribute_Definition_Source:
NOAA ESI Guidelines

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

Attribute:

Attribute_Label:
MAY
Attribute_Definition:
May
Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
X
Enumerated_Domain_Value_Definition:
Present in May

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUN

Attribute_Definition:

June

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in June

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

JUL

Attribute_Definition:

July

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in July

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

AUG

Attribute_Definition:

August

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

X

Enumerated_Domain_Value_Definition:

Present in August

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SEP

Attribute_Definition:

September

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in September

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

OCT

Attribute_Definition:

October

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in October

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

NOV

Attribute_Definition:

November

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in November

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

DEC

Attribute_Definition:

December

Attribute_Definition_Source:

NOAA ESI Guidelines

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

X

Enumerated_Domain_Value_Definition:

Present in December

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

BREED

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

MONTH

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

12

Attribute:

Attribute_Label:

BREED1

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
BREED2

Attribute_Definition:

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:
BREED3

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

BREED4

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

BREED5

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

Y

Enumerated_Domain_Value_Definition:

Life-history stage or activity present

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

N

Enumerated_Domain_Value_Definition:

Life-history stage or activity not present or not reported

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

-

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

STATUS

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and Plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

STATE

Attribute_Definition:

Two-letter state abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

COUNTRY

Attribute_Definition:

Three-letter country abbreviation.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Attribute:

Attribute_Label:

S

Attribute_Definition:

State threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on state list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

F

Attribute_Definition:

Federal threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on federal list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

I

Attribute_Definition:

International threatened or endangered status.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E

Enumerated_Domain_Value_Definition:

Endangered on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T

Enumerated_Domain_Value_Definition:

Threatened on international list

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

C

Enumerated_Domain_Value_Definition:

Species of Special Concern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

S_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

F_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

I_DATE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SOURCES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SOURCE_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication

with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*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, FISHL) 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 Southern California atlas, the number is 209), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The

RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files 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 in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure, does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

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Washington

Postal_Code:

98115-6349

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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.

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

20100927

Metadata_Review_Date:

20100927

*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/metadatarresource/metadatarreferences/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: Southern California: INVERT (Invertebrate Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for sensitive bivalves, gastropods, insects, crustaceans, and other invertebrate species in Southern California. Vector polygons in this data set represent sensitive species and some commercial/recreational species distributions. Species-specific abundance, seasonality, status, life history, and source information are stored in relational data tables (described below) designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for Southern California. 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:

1977

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 1977 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

[Back To Index](#)

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

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

more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. A final review is made by the GIS manager, where the data are written to CD/DVD 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 "resource 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 sensitive species and some commercial/recreational species distributions. These data do not necessarily represent all invertebrate occurrences in Southern California. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 18, Pismo clam, Tivela stultorum; 20, California mussel, Mytilus californianus; 29, Pacific littleneck, Protothaca staminea; 60, Abalone, Haliotis spp.; 61, Red abalone, Haliotis rufescens; 62, Black abalone, Haliotis cracherodii; 64, White abalone, Haliotis sorenseni; 65, Pink abalone, Haliotis corrugata; 76, Nuttall cockle, Clinocardium nuttallii; 505, Monarch butterfly, Danaus plexippus; 555, Globose dune beetle, Coelus globosus; 592, Riverside fairy shrimp, Streptocephalus woottoni; 593, San Diego fairy shrimp, Branchinecta sandiegonensis; 596, Chione spp., Chione spp.; 597, Point Mugu dune weevil, Trigonoscuta muguensis; 598, Wandering skipper, Panoquina errans; 599, Western beach tiger beetle, Cicindela latesignata; 1039, Intertidal invertebrates, 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:

BUCK, T. (CDF&G)

Publication_Date:

2009

Title:

PISMO BEACH DISTRIBUTION IN SAN DIEGO COUNTY

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

online

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:

CDF&G

Publication_Date:

2001

Title:

CALIFORNIA'S LIVING MARINE RESOURCES: A STATUS REPORT (PISMO CLAM)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

CDF&G, DECEMBER 2001

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:
2001

Source_Currentness_Reference:
DATE OF PUBLICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
CDF&G

Publication_Date:
2009

Title:
CA.GOV DEPARTMENT OF FISH AND GAME (DFG)

Geospatial_Data_Presentation_Form:
WEBSITE

Online_Linkage:
<http://www.dfg.ca.gov/>

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:
INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:
CDF&G (REILLY, P.)

Publication_Date:
2001

Title:
CALIFORNIA'S LIVING MARINE RESOURCES: A
STATUS REPORT (LITTLENECK CLAMS)

Geospatial_Data_Presentation_Form:
HARDCOPY TEXT

Other_Citation_Details:
CDF&G, DECEMBER 2001. PP. 451-452.

Type_of_Source_Media:
online

Source_Time_Period_of_Content:

Time_Period_Information:
 Single_Date/Time:
 Calendar_Date:
 2001
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 INVERT INFORMATION
Source_Information:
 Source_Citation:
 Citation_Information:
 Originator:
 CDF&G BIOGEOGRAPHIC DATA BRANCH
 Publication_Date:
 2009
 Title:
 CALIFORNIA NATURAL DIVERSITY DATABASE
 (CNDDDB)
 Geospatial_Data_Presentation_Form:
 vector digital data
 Publication_Information:
 Publication_Place:
 SACRAMENTO, CA
 Publisher:
 CDF&G BIOGEOGRAPHIC DATA BRANCH
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:
 INVERT INFORMATION
Source_Information:
 Source_Citation:
 Citation_Information:
 Originator:
 CDF&G, OFFICE OF SPILL PREVENTION AND
 RESPONSE (OSPR), DEPARTMENT OF HOMELAND
 SECURITY (DHS), UNITED STATES COAST GUARD
 (USCG)
 Publication_Date:
 2008
 Title:

AREA CONTINGENCY PLAN (ACP) SECTOR LOS ANGELES/LONG BEACH; 2008 USCG SECTOR SAN DIEGO AREA CONTINGENCY PLAN (ACP)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

USCG

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:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

DELITH, C. (USFWS)

Publication_Date:

2009

Title:

THREATENED/ENDANGERED (T/E) SPECIES IN VENTURA COUNTY

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:

ENGLE, J. UNIVERSITY OF CALIFORNIA SANTA
BARBARA (UCSB)

Publication_Date:
2009

Title:
INTERTIDAL HABITATS AND SPECIES

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:
KRONINGER, M. (CDF&G, OSPR)

Publication_Date:
2009

Title:
DISTRIBUTION OF BIOLOGICAL AND SOCECON
RESOURCES IN LA AND ORANGE COUNTIES

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:

LERMA, D. (TIERRA DATA INC.)

Publication_Date:

2009

Title:

SAN NIC AND SAN CLEMENTE 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:

LEWIS, R. (CDF&G OSPR)

Publication_Date:

2009

Title:

DISTRIBUTION OF SOCECON AND BIOLOGICAL
RESOURCES IN SOUTHERN CALIFORNIA

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:

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

Publication_Date:

2006

Title:

SENSITIVITY OF COASTAL ENVIRONMENTS TO
SPILLED OIL: CENTRAL CALIFORNIA ATLAS

Geospatial_Data_Presentation_Form:

atlas

Publication_Information:

Publication_Place:

SEATTLE, WA

Publisher:

NOAA

Other_Citation_Details:

MONTEREY BAY NATIONAL MARINE SANCTUARY
(MBNMS), CDF&G OSPR, AND MONTEREY BAY
SANCTUARY FOUNDATION, NOAA 7600 SAND
POINT WAY, SEATTLE, WA 98115-6349

Online_Linkage:

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

Type_of_Source_Media:

paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE

Publication_Date:

2007

Title:

PINK ABALONE HALIOTIS CORRUGATA

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

LONG BEACH, CALIFORNIA

Publisher:

NOAA NATIONAL MARINE FISHERIES
SERVICE

Other_Citation_Details:

NOAA FISHERIES, SOUTHWEST REGION,
PROTECTED RESOURCES DIVISION, 501 W. OCEAN
BLVD. SUITE 4200, LONG BEACH, CALIFORNIA,
90802-4213

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2007

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE

Publication_Date:

2008

Title:

WHITE ABALONE RECOVERY PLAN (HALIOTIS
SORENSEN)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

LONG BEACH, CA

Publisher:

NOAA NATIONAL MARINE FISHERIES
SERVICE

Type_of_Source_Media:

paper

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:
INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ONO, D. (CDF&G, MARINE REGION)

Publication_Date:
2009

Title:
SANTA BARBARA/VENTURA/NORTHERN LA
COUNTY PISMO AND LITTLENECK CLAM SITES

Geospatial_Data_Presentation_Form:
HARDCOPY TEXT

Other_Citation_Details:
UNPUBLISHED

Type_of_Source_Media:
EMAIL

Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2009

Source_Currentness_Reference:
DATE OF COMMUNICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
INVERT INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
ORSAK, L.J.

Publication_Date:
1977

Title:
THE BUTTERFLIES OF ORANGE COUNTY,
CALIFORNIA

Geospatial_Data_Presentation_Form:
HARDCOPY TEXT

Publication_Information:
Publication_Place:
NEW YORK

Publisher:
UNIVERSITY OF CALIFORNIA PRESS

Other_Citation_Details:

CENTER FOR PATHOBIOLOGY MISCELLANEOUS
PUBLICATION #3. UNIVERSITY OF CALIFORNIA
PRESS, NEW YORK. 349 PP.

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1977

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UC DAVIS SEA GRANT EXTENSION PROGRAM

Publication_Date:

1997

Title:

ABALONE

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

<http://seafood.ucdavis.edu/pubs/abalone.htm>

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:

INVERT INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

UNIVERSITY OF CALIFORNIA SANTA BARBARA,
MARINE LIFE PROTECTION ACT (UCSB MLPA)

Publication_Date:

2004

Title:

CRANE_2004_ABALONE
Geospatial_Data_Presentation_Form:
vector digital data
Other_Citation_Details:
USCB MLPA
Type_of_Source_Media:
online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
2004
Source_Currentness_Reference:
DATE OF PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
US NAVY
Publication_Date:
2009
Title:
BLACK_ABALONE_MODEL
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 PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
US NAVY
Publication_Date:
2009

Title:
 WHITE_ABALONE_MODEL
Geospatial_Data_Presentation_Form:
 vector digital data
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 INVERT INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 USFWS
Publication_Date:
 2002
Title:
 SAN DIEGO FAIRY SHRIMP
Geospatial_Data_Presentation_Form:
 HARDCOPY TEXT
Online_Linkage:
http://ecos.fws.gov/docs/life_histories/K049.html
Type_of_Source_Media:
 online
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2002
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 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 U.S. Fish and Wildlife Service (USFWS), University of California Santa Barbara (UCSB), and California Department of Fish and

Game (CDF&G); 2) published reports provided by CDF&G and NOAA National Marine Fisheries Service; and 3) digital data provided by UCSB Marine Life Protection Act (MLPA), U.S. Navy, and CDF&G. 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:

201003

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:

554

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

555

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

761

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

105168

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node,planar graph

Point_and_Vector_Object_Count:

669

[Back To Index](#)

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

INVERT.PAT

Entity_Type_Definition:

The INVERT.PAT table contains attribute information for the vector polygons in this data set representing sensitive species and some commercial/recreational species distributions. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209), 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:*

2090700002

Range_Domain_Maximum:

2090700565

*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:*

209001059

Range_Domain_Maximum:

209001096

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

BIO_LUT

Entity_Type_Definition:

The data table BIO_LUT is a lookup table that contains items necessary for linking vector objects in the biological data layers with the BIORES data table. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
RARNUM

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

Attribute_Definition_Source:
NOAA

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:
209000001

Range_Domain_Maximum:
209001289

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 (209), 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:
2090100002

Range_Domain_Maximum:
2092200052

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:*

209000001

Range_Domain_Maximum:

209001289

*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 concentration information was available for invertebrates, therefore qualitative terms (such as "VERY HIGH", "HIGH PROBABILITY" and "POTENTIAL") were used to describe the relative abundance of particular invertebrate species at specific locations. If no concentration information was available from any source, the field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

S_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

tables.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

alcid

Enumerated_Domain_Value_Definition:

Alcid

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:

bivalve

Enumerated_Domain_Value_Definition:

Bivalve

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

canine

Enumerated_Domain_Value_Definition:

Canine

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

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:
 fish
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 freshwater
Enumerated_Domain_Value_Definition:
 Freshwater fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

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

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

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

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 kelp
Enumerated_Domain_Value_Definition:
 Kelp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
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:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pinniped
Enumerated_Domain_Value_Definition:

Pinniped

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

plant

Enumerated_Domain_Value_Definition:

Plant

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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:*

sea_otter

Enumerated_Domain_Value_Definition:

Sea otter

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:
upland
Enumerated_Domain_Value_Definition:
Upland vegetation
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:

wetland
Enumerated_Domain_Value_Definition:
 Wetland
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 whale
Enumerated_Domain_Value_Definition:
 Whale
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute:
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 and ESI_SOURCE in the ESI and HYDRO data layers.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*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 Southern California atlas, the number is 209), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files 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 in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure, does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

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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:

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.

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

20100927

Metadata_Review_Date:

20100927

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

Jill Petersen

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NOAA, Office of Response and Restoration

Contact_Position:

GIS Manager

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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/metadatarresource/metadatarreferences/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: Southern California: REPTILES (Reptile Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for rare amphibians, rare reptiles, and sea turtles in Southern California. Vector polygons in this data set represent rare and threatened/endangered reptile and amphibian 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 Southern California. 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:

2001

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 2001 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, seasonal.e00, soc_dat.e00, soc_lut.e00, sources.e00, species.e00, and status.e00.

Program_Affiliation:

Program_Name:

National Ocean Service Data Explorer

[Back To Index](#)

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

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

more detailed evaluation of source data attribute accuracy, contact the sources listed in the Lineage section.

Logical_Consistency_Report:

A multi-stage error checking process, described in the above Attribute_Accuracy_Report, is used to verify both attribute accuracy and logical consistency throughout data production. This process includes multiple automated logical consistency checks that test the files for missing or duplicate data, rules for proper coding, GIS topological consistencies (such as dangles, unnecessary nodes, etc.), and SQL SERVER(R) to ARC/INFO(R) consistencies. A final review is made by the GIS manager, where the data are written to CD/DVD 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 "resource 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 rare and threatened/endangered reptile and amphibian distribution. These data do not necessarily represent all reptile occurrences in Southern California. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 2, Green sea turtle, *Chelonia mydas*; 5, Leatherback sea turtle, *Dermodochelys coriacea*; 6, Loggerhead sea turtle, *Caretta caretta*; 54, California red-legged frog, *Rana draytonii*; 187, Arroyo toad, *Anaxyrus californicus*; 188, California Newt, *Taricha torosa*; 190, Southwestern pond turtle, *Actinemys marmorata pallida*; 191, Two-striped garter snake, *Thamnophis hammondi*; 195, Island night lizard, *Xantusia riversiana*.

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:
 AVERY, J. (USFWS)
Publication_Date:
 2009
Title:
 USFWS RESOURCES IN SAN DIEGO AND ORANGE
 COUNTIES
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:
 BENSON, S. (NOAA)
Publication_Date:
 2009
Title:
 LEATHERBACK SEA TURTLE DISTRIBUTION AND
 SEASONALITY IN SOUTHERN CALIFORNIA
Geospatial_Data_Presentation_Form:
 EXPERT KNOWLEDGE
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF COMMUNICATION

Source_Citation_Abbreviation:
NONE

Source_Contribution:
REPTILES INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
CALIFORNIAHERPS.COM
Publication_Date:
2009
Title:
CALIFORNIA REPTILES AND AMPHIBIANS
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Online_Linkage:
<http://www.californiaherps.com/>

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:
REPTILES INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
CDF&G BIOGEOGRAPHIC DATA BRANCH
Publication_Date:
2009
Title:
CALIFORNIA NATURAL DIVERSITY DATABASE
(CNDDDB)
Geospatial_Data_Presentation_Form:
vector digital data
Publication_Information:
Publication_Place:
SACRAMENTO, CA
Publisher:
CDF&G BIOGEOGRAPHIC DATA BRANCH

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:
REPTILES INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
CDF&G, OFFICE OF SPILL PREVENTION AND
RESPONSE (OSPR), DEPARTMENT OF HOMELAND
SECURITY (DHS), UNITED STATES COAST GUARD
(USCG)
Publication_Date:
2008
Title:
AREA CONTINGENCY PLAN (ACP) SECTOR LOS
ANGELES/LONG BEACH; 2008 USCG SECTOR SAN
DIEGO AREA CONTINGENCY PLAN (ACP)
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Other_Citation_Details:
USCG

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:
DELITH, C. (USFWS)
Publication_Date:
2009
Title:
THREATENED/ENDANGERED (T/E) SPECIES IN
VENTURA COUNTY
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:

DUTTON, P. (NOAA)

Publication_Date:

2009

Title:

GREEN SEA TURTLE DISTRIBUTION AND
SEASONALITY IN SOUTHERN CALIFORNIA

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

GOLD, J. (CDF&G OSPR)

Publication_Date:

2009

Title:

SOCECON AND BIOLOGICAL RESOURCE
DISTRIBUTION FOR SANTA BARBARA AND
VENTURA COUNTIES

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:

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

Publication_Date:
2006

Title:

SENSITIVITY OF COASTAL ENVIRONMENTS TO
SPILLED OIL: CENTRAL CALIFORNIA ATLAS

Geospatial_Data_Presentation_Form:
atlas

Publication_Information:

Publication_Place:
SEATTLE, WA

Publisher:
NOAA

Other_Citation_Details:

MONTEREY BAY NATIONAL MARINE SANCTUARY
(MBNMS), CDF&G OSPR, AND MONTEREY BAY
SANCTUARY FOUNDATION, NOAA 7600 SAND
POINT WAY, SEATTLE, WA 98115-6349

Online_Linkage:

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

Type_of_Source_Media:
paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2006

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

NOAA NATIONAL MARINE FISHERIES SERVICE
(NMFS)

Publication_Date:

2001

Title:

ENVIRONMENTAL ASSESSMENT: FIGURE 10
(LOGGERHEAD SEA TURTLE MAP)

Geospatial_Data_Presentation_Form:

map

Other_Citation_Details:

NOAA NMFS PROTECTED RESOURCES DIVISION,
2001

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SAN DIEGO NATURAL HISTORY MUSEUM

Publication_Date:

2009

Title:

BUFO CALIFORNICUS ARROYO TOAD

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Online_Linkage:

<http://www.sdnhm.org/fieldguide/herps/bufo-cal.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:

REPTILES INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

SCHALLMAN, B. (U.S. NAVY)

Publication_Date:

2009

Title:

SPECIES DISTRIBUTION ON U.S. NAVY PROPERTY

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:

SMITH, R.

Publication_Date:

2009

Title:

SNOWY PLOVER, LEAST TERN, AND OTHER
SPECIES SITES IN SANTA BARBARA AND VENTURA
COUNTIES

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:
US NAVY
Publication_Date:
2009
Title:
NIGHT LIZARDS
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 PUBLICATION
Source_Citation_Abbreviation:
NONE
Source_Contribution:
REPTILES INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
USFWS CARLSBAD OFFICE
Publication_Date:
2009
Title:

SAN DIEGO COUNTY FEDERALLY LISTED SPECIES
DISTRIBUTION AND SEASONALITY INFORMATION

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

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 U.S. Fish and Wildlife Service (USFWS), NOAA National Marine Fisheries Service (NMFS), U.S. Navy, CDF&G and the Audubon Society; 2) published and unpublished reports and maps; and 3) digital data provided by CDF&G and U.S. Navy. 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:

201003

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:
172
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Area point
Point_and_Vector_Object_Count:
173
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Complete chain
Point_and_Vector_Object_Count:
433
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Link
Point_and_Vector_Object_Count:
122816
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type:
Node,planar graph
Point_and_Vector_Object_Count:
412

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Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:

*Geographic:**Latitude_Resolution:*

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

[Back To Index](#)*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

REPTILES.PAT

Entity_Type_Definition:

The REPTILES.PAT table contains attribute information for the vector polygons in this data set representing rare and threatened/endangered reptile and amphibian distribution. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209), 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:*

2090600002

Range_Domain_Maximum:

2090600175

*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:*

209001248

Range_Domain_Maximum:

209001279

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

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

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

209000001

Range_Domain_Maximum:

209001289

*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 (209), 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:*

2090100002

Range_Domain_Maximum:

2092200052

*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:*

209000001

Range_Domain_Maximum:

209001289

*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. In cases where no quantitative count information was available, the field may contain descriptive terms such as "ABUNDANT", "PRIMARY", "SECONDARY", "POSSIBLE", "RARE", etc. If no concentration information was available from any source, the field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

S_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

and SEASON_ID = 1; EL_SPE_SEA = 'B0000101').

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Detailed_Description:

Entity_Type:

Entity_Type_Label:

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 T_MAMMAL
Enumerated_Domain_Value_Definition:
 Terrestrial Mammals
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute:
Attribute_Label:
 SUBELEMENT
Attribute_Definition:
 Element subgroup delineating a logical grouping of species.
Attribute_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 alcid
Enumerated_Domain_Value_Definition:
 Alcid
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:
 bivalve
Enumerated_Domain_Value_Definition:
 Bivalve
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 canine
Enumerated_Domain_Value_Definition:
 Canine
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:

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:

fish

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gastropod

Enumerated_Domain_Value_Definition:

Gastropod

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

gull_tern

Enumerated_Domain_Value_Definition:

Gull or tern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

insect

Enumerated_Domain_Value_Definition:

Insect

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

invert

Enumerated_Domain_Value_Definition:

Invertebrate

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

kelp

Enumerated_Domain_Value_Definition:

Kelp

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

lizard

Enumerated_Domain_Value_Definition:

Lizard

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:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pinniped
Enumerated_Domain_Value_Definition:
 Pinniped
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 plant
Enumerated_Domain_Value_Definition:
 Plant
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 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:

sea_otter
Enumerated_Domain_Value_Definition:
 Sea otter
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:
 upland
Enumerated_Domain_Value_Definition:
 Upland vegetation

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

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

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

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

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

Attribute:
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 and ESI_SOURCE in the ESI and HYDRO data layers.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

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 Southern California atlas, the number is 209), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files 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 in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure, does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

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

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

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:*

20100927

Metadata_Review_Date:

20100927

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

Jill Petersen

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NOAA, Office of Response and Restoration

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(206) 526-6944

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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/metadatarresource/metadatarreferences/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: Southern California: M_MAMMAL (Marine Mammal Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for seals, sea lions, whales, dolphins, porpoises, and sea otters in Southern California. Vector polygons in this data set represent marine mammal distribution, haul-out sites, and rookeries. 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 Southern California. 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:

1998

Ending_Date:

2010

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 1998 to 2010 and are documented in the Lineage section.

Status:

Progress:

Complete

Maintenance_and_Update_Frequency:

None Scheduled

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 "resource 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 marine mammal distribution, haul-out sites, and rookeries. These data do not necessarily represent all marine mammal occurrences in Southern California. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 3, Northern fur seal, *Callorhinus ursinus*; 4, Killer whale, *Orcinus orca*; 7, Sea otter, *Enhydra lutris*; 11, Fin whale, *Balaenoptera physalus*; 12, Minke whale, *Balaenoptera acutorostrata*; 13, Humpback whale, *Megaptera novaeangliae*; 17, Bottlenose dolphin, *Tursiops truncatus*; 19, Short-finned pilot whale, *Globicephala macrorhynchus*; 20, Northern right-whale dolphin, *Lissodelphis borealis*; 22, California sea lion, *Zalophus californianus*; 23, Guadalupe fur seal, *Arctocephalus townsendi*; 24, Northern elephant seal, *Mirounga angustirostris*; 26, Gray whale, *Eschrichtius robustus*; 29, Blue whale, *Balaenoptera musculus*; 45, Pacific white-sided dolphin, *Lagenorhynchus obliquidens*; 46, Risso's dolphin, *Grampus griseus*; 47, Dall's porpoise, *Phocoenoides dalli dalli*; 48, Sperm whale, *Physeter macrocephalus*; 60, Short-beaked saddleback dolphin, *Delphinus delphis*; 88, Bryde's whale, *Balaenoptera edeni*; 96, Cuvier's beaked whale, *Ziphius cavirostris*; 98, Baird's beaked whale, *Berardius bairdii*; 99, Pacific harbor seal, *Phoca vitulina richardii*; 100, Striped dolphin, *Stenella coeruleoalba*; 106, Long-beaked saddleback dolphin, *Delphinus capensis*; 107, North Pacific right whale, *Eubalaena japonica*; 1000, Whales, n/a; 1005, Mesoplodont beaked whales, *Mesoplodon* spp.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Spatial components for the biological data layers can come from expert interviews, hardcopy, or digital sources. Some of the spatial components of the biological data layers may have been developed using regional

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

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator:

CDF&G, OFFICE OF SPILL PREVENTION AND RESPONSE (OSPR), DEPARTMENT OF HOMELAND SECURITY (DHS), UNITED STATES COAST GUARD (USCG)

Publication_Date:

2008

Title:

AREA CONTINGENCY PLAN (ACP) SECTOR LOS ANGELES/LONG BEACH; 2008 USCG SECTOR SAN DIEGO AREA CONTINGENCY PLAN (ACP)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

USCG

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:

M_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FAULKNER, K. (National Park Service)

Publication_Date:

2010

Title:

CHANNEL ISLANDS NATIONAL PARK RESOURCES

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2010

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

M_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

FAULKNER, K., CHANNEL ISLANDS NATIONAL
PARK (CINP)

Publication_Date:

2009

Title:

CHANNEL ISLANDS SPECIES DISTRIBUTION

Geospatial_Data_Presentation_Form:

EXPERT KNOWLEDGE

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

PERSONAL COMMUNICATION

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

2009

Source_Currentness_Reference:

DATE OF COMMUNICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

M_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

GOLD, J. (CDF&G OSPR)

Publication_Date:

2009

*Title:*SOCECON AND BIOLOGICAL RESOURCE
DISTRIBUTION FOR SANTA BARBARA AND
VENTURA COUNTIES*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:*KOSKI, W.R., J.W. LAWSON, D.H. THOMSON, AND
W.J. RICHARDSON*Publication_Date:*

1998

*Title:*POINT MUGU SEA RANGE MARINE MAMMAL
TECHNICAL REPORT*Geospatial_Data_Presentation_Form:*

HARDCOPY TEXT

*Other_Citation_Details:*LGL LIMITED, OGDEN ENVIRONMENTAL, NAVAL
AIR WARFARE CENTER WEAPONS DIVISION, AND
SOUTHWEST DIVISION NAVAL FACILITIES
ENGINEERING COMMAND. 281 PP. + APPENDICES.*Type_of_Source_Media:*

paper

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

1998

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:
M_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

LOWRY, M. (NATIONAL MARINE FISHERIES
SERVICE (NMFS), LA JOLLA)

Publication_Date:

2009

Title:

CSL NONROOK SCB

Geospatial_Data_Presentation_Form:

spreadsheet

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2004

Ending_Date:

2007

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

M_MAMMAL INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

LOWRY, M. (NATIONAL MARINE FISHERIES
SERVICE (NMFS), LA JOLLA)

Publication_Date:

2009

Title:

CSL PHOTO COUNTS

Geospatial_Data_Presentation_Form:

spreadsheet

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date:

2005
Ending_Date:
 2007
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 LOWRY, M. (NATIONAL MARINE FISHERIES
 SERVICE (NMFS), LA JOLLA)
Publication_Date:
 2009
Title:
 NES GROUND COUNTS
Geospatial_Data_Presentation_Form:
 spreadsheet
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2006
Ending_Date:
 2008
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 LOWRY, M. (NATIONAL MARINE FISHERIES
 SERVICE (NMFS), LA JOLLA)
Publication_Date:
 2009
Title:
 NES PT. CONCEPTION PHOTO COUNTS
Geospatial_Data_Presentation_Form:
 spreadsheet
Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

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

2005

Ending_Date:

2005

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

M_MAMMAL INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*LOWRY, M. (NATIONAL MARINE FISHERIES
SERVICE (NMFS), LA JOLLA)*Publication_Date:*

2009

Title:

NES ROOKERY PHOTO COUNTS

Geospatial_Data_Presentation_Form:

spreadsheet

Other_Citation_Details:

UNPUBLISHED

Type_of_Source_Media:

EMAIL

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

2001

Ending_Date:

2005

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

M_MAMMAL INFORMATION

*Source_Information:**Source_Citation:**Citation_Information:**Originator:*LOWRY, M. (NATIONAL MARINE FISHERIES
SERVICE (NMFS), LA JOLLA)

Publication_Date:
 2009
Title:
 PACIFIC HARBOR SEAL (PHS) COUNTS SOUTH CA
Geospatial_Data_Presentation_Form:
 spreadsheet
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date:
 2002
Ending_Date:
 2007
Source_Currentness_Reference:
 DATE OF SURVEY
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 NOAA NMFS SOUTHWEST FISHERIES SCIENCE
 CENTER (SWFSC)
Publication_Date:
 2009
Title:
 CETACEAN DISTRIBUTION AND SEASONALITY IN
 SOUTHERN CALIFORNIA
Geospatial_Data_Presentation_Form:
 HARDCOPY MAP
Other_Citation_Details:
 UNPUBLISHED
Type_of_Source_Media:
 EMAIL
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date:
 2009
Source_Currentness_Reference:
 DATE OF PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 M_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
 PRYOR, D.
Publication_Date:
 2009
Title:
 SPECIES DISTRIBUTION, LOS ANGELES COUNTY
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 PUBLICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 RYAN, T.
Publication_Date:
 2009
Title:
 SNOWY PLOVER AND OTHER SPECIES
 DISTRIBUTION AND SEASONALITY IN SOUTHERN
 CALIFORNIA
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:*

SCHALLMAN, B. (U.S. NAVY)

Publication_Date:

2009

Title:

SPECIES DISTRIBUTION ON U.S. NAVY PROPERTY

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:*SENYK, N. (CHANNEL ISLANDS NATIONAL MARINE
SANCTUARY)*Publication_Date:*

2009

*Title:*CHANNEL ISLANDS NATIONAL MARINE
SANCTUARY SPECIES*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:
SMITH, R.
Publication_Date:
2009
Title:
SNOWY PLOVER, LEAST TERN, AND OTHER
SPECIES SITES IN SANTA BARBARA AND VENTURA
COUNTIES
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:
TINKER, T. (UCSC)
Publication_Date:
2005
Title:
SEA OTTER SEASONALITY
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:
 2005
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 TINKER, T. (UCSC)
Publication_Date:
 2005
Title:
 SEA OTTERS
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:
 2005
Source_Currentness_Reference:
 DATE OF COMMUNICATION
Source_Citation_Abbreviation:
 NONE
Source_Contribution:
 M_MAMMAL INFORMATION
Source_Information:
Source_Citation:
Citation_Information:
Originator:
 U.S. GEOLOGICAL SURVEY
Publication_Date:
 2008
Title:
 CENSUS_SUM_08
Geospatial_Data_Presentation_Form:
 vector digital data
Online_Linkage:
<http://www.werc.usgs.gov/otters/ca-surveys.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 SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

M_MAMMAL INFORMATION

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

US NAVY

Publication_Date:

2001

Title:

SEA OTTERS

Geospatial_Data_Presentation_Form:

vector digital data

*Other_Citation_Details:*DELINEATES WHERE SEA OTTERS ARE MOST
OFTEN SEEN AROUND SAN NICOLAS ISLAND*Type_of_Source_Media:*

EMAIL

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

2001

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

M_MAMMAL INFORMATION

*Process_Step:**Process_Description:*

Three main sources of data were used to depict marine mammal distribution and seasonality for this data layer: 1) personal interviews with resource experts from NOAA National Marine Fisheries Service (NMFS) Southwest Fisheries Science Center (SWFSC), California State Parks (CSP), Ryan Ecological Consulting, U.S. Navy, Audubon Society, Channel Island National Marine Sanctuary (CINMS), University of California Santa Cruz (UCSC), National Park Service (NPS) Channel Islands National Park (CINP), and CDF&G; 2) published reports provided by CDF&G and NOAA; and 3) digital survey data, digital maps, and shapefiles provided by U.S. Geological Survey (USGS), NOAA NMFS SWFSC, and the U.S. Navy. 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:

201003

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:

308

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

309

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

1084

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

266794

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node, planar graph

Point_and_Vector_Object_Count:

885

[Back To Index](#)

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name:

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

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Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

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, haul-out sites, and rookeries. Note that all attribute information is stored in a series of relational files, described below and in the

Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209), 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:
2090400002

Range_Domain_Maximum:
2090400315

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:
109001097

Range_Domain_Maximum:
109001247

Detailed_Description:

Entity_Type:

Entity_Type_Label:

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

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

209000001

Range_Domain_Maximum:

209001289

*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 (209), 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:*

2090100002

Range_Domain_Maximum:

2092200052

*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:*

209000001

Range_Domain_Maximum:

209001289

*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. The field may contain counts of individuals (XX INDIV.) or a range of counts of individuals (XX-XX INDIV.). Counts were primarily used for pinnipeds. When no quantitative count information was available, the field may contain descriptive terms such as "VERY HIGH" or "PRIMARY", "SECONDARY", "RARE" (used for cetaceans, mostly). If no concentration information was available from any source, the field was populated with "-". Counts were derived from a variety of surveys, and may range in date (see Lineage).

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

S_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:*

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

alcid

Enumerated_Domain_Value_Definition:

Alcid

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:
 bivalve
 Enumerated_Domain_Value_Definition:
 Bivalve
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 canine
 Enumerated_Domain_Value_Definition:
 Canine
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 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:

fish

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gastropod

Enumerated_Domain_Value_Definition:

Gastropod

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gull_tern

Enumerated_Domain_Value_Definition:

Gull or tern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

insect

Enumerated_Domain_Value_Definition:

Insect

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 kelp
Enumerated_Domain_Value_Definition:
 Kelp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
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:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pinniped
Enumerated_Domain_Value_Definition:
 Pinniped
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

plant

Enumerated_Domain_Value_Definition:

Plant

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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:*

sea_otter

Enumerated_Domain_Value_Definition:

Sea otter

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:

upland

Enumerated_Domain_Value_Definition:

Upland vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

waterfowl

Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wetland

Enumerated_Domain_Value_Definition:

Wetland

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

whale

Enumerated_Domain_Value_Definition:

Whale

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**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 and ESI_SOURCE in the ESI and HYDRO data layers.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:
ORIGINATOR

Attribute_Definition:
Author or developer of source material or data set.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
DATE_PUB

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:
TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*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 Southern California atlas, the number is 209), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files 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 in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram, describing relationships between attribute tables in the ESI data structure, does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

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

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

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.

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

20100927

Metadata_Review_Date:

20100927

*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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Physical Address

Address:

7600 Sand Point Way, N.E.

City:

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State_or_Province:

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Postal_Code:

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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/metadatarresource/metadatarreferences/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: Southern California: T_MAMMAL (Terrestrial Mammal Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

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

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for rare and
threatened/endangered terrestrial mammals in Southern California. Vector polygons
in this data set represent distribution of rare terrestrial mammals. Species-specific
abundance, seasonality, status, life history, and source information are stored in
relational data tables (described below), designed to be used in conjunction with this
spatial data layer. This data set comprises a portion of the ESI data for Southern
California. 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:

1990

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range
from 1990 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 "resource 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 distribution of rare terrestrial mammals. These data do not necessarily represent all terrestrial mammal occurrences in Southern California. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 263, Pacific pocket mouse, *Perognathus longimembris pacificus*; 264, San Diego black-tailed jackrabbit, *Lepus californicus bennettii*; 265, Western harvest mouse, *Reithrodontomys megalotis*; 268, San Miguel island fox, *Urocyon littoralis littoralis*; 269, Santa Rosa island fox, *Urocyon littoralis santarosae*; 270, Santa Cruz island fox, *Urocyon littoralis santacruzae*; 271, Santa Catalina island fox, *Urocyon littoralis catalinae*; 272, Anacapa deer mouse, *Peromyscus maniculatus anacapae*; 273, Channel Islands spotted skunk, *Spilogale gracilis amphialus*.

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:

BRUBAKER, D. (USFWS)

Publication_Date:

2009

Title:

NATIONAL WILDLIFE REFUGE RESOURCES IN
SOUTHERN CALIFORNIA

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:

CDF&G BIOGEOGRAPHIC DATA BRANCH

Publication_Date:

2009

Title:

CALIFORNIA NATURAL DIVERSITY DATABASE
(CNDDDB)

Geospatial_Data_Presentation_Form:

vector digital data

Publication_Information:

Publication_Place:

SACRAMENTO, CA

Publisher:

CDF&G BIOGEOGRAPHIC DATA BRANCH

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:
T_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
CDF&G, OFFICE OF SPILL PREVENTION AND
RESPONSE (OSPR),DEPARTMENT OF HOMELAND
SECURITY (DHS), UNITED STATES COAST GUARD
(USCG)
Publication_Date:
2008
Title:
AREA CONTINGENCY PLAN (ACP) SECTOR LOS
ANGELES/LONG BEACH; 2008 USCG SECTOR SAN
DIEGO AREA CONTINGENCY PLAN (ACP)
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Other_Citation_Details:
USCG

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:
T_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
FOSTER, B. (AVIAN RESEARCH ASSOCIATES)
Publication_Date:
2009
Title:
SAN DIEGO COUNTY SPECIES
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:
USFWS
Publication_Date:
1998
Title:
RECOVERY PLAN FOR THE PACIFIC POCKET
MOUSE
Geospatial_Data_Presentation_Form:
HARDCOPY TEXT
Publication_Information:
Publication_Place:
PORTLAND, OR.
Publisher:
USFWS
Other_Citation_Details:
PORTLAND, OR. 112 PP.

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:
T_MAMMAL INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:

VERMEER, L. (THE NATURE CONSERVANCY)

Publication_Date:

2009

Title:

THE NATURE CONSERVANCY RESOURCES IN THE
CHANNEL 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:

ZEINER, D.C., W.F. LAUDENSLAYER, JR., K.E.
MAYER, AND M. WHITE.

Publication_Date:

1990

Title:

LIFE HISTORY ACCOUNTS FOR SPECIES IN THE
CALIFORNIA WILDLIFE HABITAT RELATIONSHIPS
(CWHR) SYSTEM. CAL'S WILDLIFE. VOL. I-III.

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Publication_Information:

Publication_Place:

SACRAMENTO, CA.

Publisher:

CALIFORNIA DEPT. OF FISH AND GAME

Type_of_Source_Media:

online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date:

1990

Source_Currentness_Reference:

DATE OF PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

T_MAMMAL INFORMATION

*Process_Step:**Process_Description:*

Three main sources of data were used to depict terrestrial mammal distribution and seasonality for this data layer: 1) personal interviews with resource experts from U.S. Fish and Wildlife Service (USFWS), Avian Research Associates, and The Nature Conservancy; 2) published reports provided by CDF&G; and 3) digital data provided by CDF&G. 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:

201003

*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[Back To Index](#)

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:*

Vector

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

GT-polygon composed of chains

Point_and_Vector_Object_Count:

83

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Area point

Point_and_Vector_Object_Count:

84

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Complete chain

Point_and_Vector_Object_Count:

142

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Link

Point_and_Vector_Object_Count:

31768

*SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:*

Node, planar graph

Point_and_Vector_Object_Count:

139

[Back To Index](#)

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

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

[Back To Index](#)*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

T_MAMMAL.PAT

Entity_Type_Definition:

The T_MAMMAL.PAT table contains attribute information for the vector polygons in this data set representing distribution of rare terrestrial mammals. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209), 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:*

2090900002

Range_Domain_Maximum:

2090900084

*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:*

209001280

Range_Domain_Maximum:

209001289

*Detailed_Description:**Entity_Type:*

Entity_Type_Label:

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

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

209000001

Range_Domain_Maximum:

209001289

*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 (209), 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:*

2090100002

Range_Domain_Maximum:

2092200052

*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:
209000001

Range_Domain_Maximum:
209001289

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 was available on concentrations of terrestrial mammals; therefore this field was populated with "-".

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
SEASON_ID

Attribute_Definition:
Numeric identifier for the unique monthly presence and life history

characteristics of each species at a given location.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

S_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE*Attribute_Definition:*

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

SPECIES_ID*Attribute_Definition:*

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

NAME

Attribute_Definition:

Species common name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

GEN_SPEC

Attribute_Definition:

Species scientific name for the entire ESI data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute:

Attribute_Label:

SUBELEMENT

Attribute_Definition:

Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 canine
 Enumerated_Domain_Value_Definition:
 Canine
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 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:

fish

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

freshwater

Enumerated_Domain_Value_Definition:

Freshwater fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gastropod

Enumerated_Domain_Value_Definition:

Gastropod

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

gull_tern

Enumerated_Domain_Value_Definition:

Gull or tern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

insect

Enumerated_Domain_Value_Definition:

Insect

Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 invert
Enumerated_Domain_Value_Definition:
 Invertebrate
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 kelp
Enumerated_Domain_Value_Definition:
 Kelp
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 lizard
Enumerated_Domain_Value_Definition:
 Lizard
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:
 passerine
Enumerated_Domain_Value_Definition:
 Passerine bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 pelagic
Enumerated_Domain_Value_Definition:
 Pelagic bird
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

pinniped

Enumerated_Domain_Value_Definition:

Pinniped

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

plant

Enumerated_Domain_Value_Definition:

Plant

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

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:*

sea_otter

Enumerated_Domain_Value_Definition:

Sea otter

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:

upland

Enumerated_Domain_Value_Definition:

Upland vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

waterfowl

Enumerated_Domain_Value_Definition:

Waterfowl

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

wetland

Enumerated_Domain_Value_Definition:

Wetland

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

whale

Enumerated_Domain_Value_Definition:

Whale

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**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 BIORRES 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 and ESI_SOURCE in the ESI and HYDRO data layers.

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

YYYYMM

Enumerated_Domain_Value_Definition:
YYYY for year and optionally MM for month
Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
TITLE
Attribute_Definition:
Title of source material or data.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
DATA_FORMAT
Attribute_Definition:
The format of the source material.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
PUB_PLACE
Attribute_Definition:
Publication place.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
PUBLISHER
Attribute_Definition:
Publisher.
Attribute_Definition_Source:
NOAA ESI Guidelines
Attribute_Domain_Values:
Unrepresentable_Domain:
Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
PUBLICATION
Attribute_Definition:
Additional citation information.
Attribute_Definition_Source:
NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*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 Southern California atlas, the number is 209), 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 in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data

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

Entity_and_Attribute_Detail_Citation:

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

[Back To Index](#)

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

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.

[Back To Index](#)

Metadata_Reference_Information:

Metadata_Date:

20100927

Metadata_Review_Date:

20100927

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/metadatarresource/metadatarreferences/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: Southern California: HABITATS (Habitat Polygons)

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator:

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

Originator:

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

Originator:

Department of Fish and Game, Office of Spill Prevention and Response, Sacramento, California.

Publication_Date:

201003

Title:

Sensitivity of Coastal Environments and Wildlife to Spilled Oil: Southern California: HABITATS (Habitat Polygons)

Edition:

Second

Geospatial_Data_Presentation_Form:

vector digital data

Series_Information:

Series_Name:

None

Issue_Identification:

Southern California

Publication_Information:

Publication_Place:

Seattle, Washington

Publisher:

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

Other_Citation_Details:

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

Online_Linkage:

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

Description:

Abstract:

This data set contains sensitive biological resource data for kelp, submerged aquatic vegetation (SAV), and select sensitive plants in [for] Southern California. Vector polygons in this data set represent distribution of kelp, SAV, and select sensitive plants. 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 Southern California. 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:

1982

Ending_Date:

2009

Currentness_Reference:

The data were compiled during 2008-2010. The currentness dates for the data range from 1982 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:

-120.60100

East_Bounding_Coordinate:

-117.00100

North_Bounding_Coordinate:

34.50000

South_Bounding_Coordinate:

32.44500

*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:

Southern California

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 Southern California 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 Southern California ESI data.

Browse_Graphic_File_Type:

JPEG

Data_Set_Credit:

This project was supported by the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Response and Restoration (OR&R), Emergency Response Division (ERD), Seattle, Washington; the Department of Homeland Security (DHS), United States Coast Guard (USCG), Office of Incident Management and Preparedness Washington, D.C.; and the California Department of Fish and Game (CDF&G), Office of Spill Prevention and Response (OSPR), Sacramento, California.

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: acp.e00, birds.e00, esi.e00, fish.e00, fishl.e00, habitats.e00, hydro.e00, index.e00, invert.e00, m_mammal.e00, mgt.e00, nests.e00, reptiles.e00, socecon.e00, and t_mammal.e00. Associated relational and desktop data tables provided in Arc export and text format are bio_lut.e00, biofile.e00, biores.e00, breed.e00, breed_dt.e00, 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 nodes, 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/DVD 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 "resource 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 kelp, SAV, and sensitive plant distribution. These data do not necessarily represent all habitat occurrences in Southern California. The following species are included in this data set: (Species_ID, Common Name, Scientific Name [n/a if not applicable]): 1, Eelgrass, *Zostera marina*; 5, Salt marsh bird's-beak, *Cordylanthus maritimus maritimus*; 7, Surfgrass, *Phyllospadix* sp.; 9, Giant kelp, *Macrocystis pyrifera*; 309, Beach morning glory, *Ipomoea pescaprea*; 930, Gaviota tarplant, *Deinandra increscens* ssp. *Villosa*; 931, Wire bird's-foot trefoil, *Lotus nuttallianus*; 933, Ventura marsh milkvetch, *Astragalus pycnostachyus* var. *lanosissimus*; 934, Star phacelia, *Phacelia stellaris*; 1058, Intertidal plants, 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:*

BRUBAKER, D. (USFWS)

Publication_Date:

2009

*Title:*NATIONAL WILDLIFE REFUGE RESOURCES IN
SOUTHERN CALIFORNIA*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:*

CDF&G

Publication_Date:

2007

*Title:*SCKELP2006, SCKELP2005, SCKELP2004,
SCKELP2003, SCKELP2002, SCKELP1999*Geospatial_Data_Presentation_Form:*

vector digital data

Other_Citation_Details:

CDF&G, LOS ALAMITOS

Type_of_Source_Media:

CD-ROM

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

1999

Ending_Date:

2006

Source_Currentness_Reference:
DATE OF SURVEY

Source_Citation_Abbreviation:
NONE

Source_Contribution:
HABITATS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
CDF&G BIOGEOGRAPHIC DATA BRANCH

Publication_Date:
2009

Title:
CALIFORNIA NATURAL DIVERSITY DATABASE
(CNDDDB)

Geospatial_Data_Presentation_Form:
vector digital data

Publication_Information:
Publication_Place:
SACRAMENTO, CA

Publisher:
CDF&G BIOGEOGRAPHIC DATA BRANCH

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:
HABITATS INFORMATION

Source_Information:
Source_Citation:
Citation_Information:
Originator:
CDF&G, OFFICE OF SPILL PREVENTION AND
RESPONSE (OSPR), DEPARTMENT OF HOMELAND
SECURITY (DHS), UNITED STATES COAST GUARD
(USCG)

Publication_Date:
2008

Title:
AREA CONTINGENCY PLAN (ACP) SECTOR LOS
ANGELES/LONG BEACH; 2008 USCG SECTOR SAN
DIEGO AREA CONTINGENCY PLAN (ACP)

Geospatial_Data_Presentation_Form:

HARDCOPY TEXT

Other_Citation_Details:

USCG

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:

HABITATS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

DELITH, C. (USFWS)

Publication_Date:

2009

Title:

THREATENED/ENDANGERED (T/E) SPECIES IN
VENTURA COUNTY

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:

ENGLE, J. UNIVERSITY OF CALIFORNIA SANTA
BARBARA (UCSB)

Publication_Date:

2009

Title:
INTERTIDAL HABITATS AND SPECIES
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:
HAZARD, G. (USFWS)
Publication_Date:
2009
Title:
FEDERALLY PROTECTED RESOURCES IN
SOUTHERN CALIFORNIA
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:
KIRSCHNER, E. (USFWS)

Publication_Date:
 2009

Title:
 USFWS RESOURCES IN SAN DIEGO AND ORANGE
 COUNTIES

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:
 KRONINGER, M. (CDF&G, OSPR)

Publication_Date:
 2009

Title:
 DISTRIBUTION OF BIOLOGICAL AND SOCECON
 RESOURCES IN LA AND ORANGE COUNTIES

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:

PRYOR, D.

Publication_Date:

2009

Title:

SPECIES DISTRIBUTION, LOS ANGELES COUNTY

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 PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

HABITATS INFORMATION

Source_Information:

Source_Citation:

Citation_Information:

Originator:

RYAN, T.

Publication_Date:

2009

Title:

SNOWY PLOVER AND OTHER SPECIES
DISTRIBUTION AND SEASONALITY IN SOUTHERN
CALIFORNIA

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:*

SANTA BARBARA CHANNELKEEPER

Publication_Date:

2009

*Title:*EELGRASS NORTHERN CHANNEL ISLANDS
NOVEMBER 2009*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 PUBLICATION

Source_Citation_Abbreviation:

NONE

Source_Contribution:

HABITATS INFORMATION

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

SCHALLMAN, B. (U.S. NAVY)

Publication_Date:

2009

Title:

SPECIES DISTRIBUTION ON U.S. NAVY PROPERTY

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:*THE NATURE CONSERVANCY, NOAA, LITTLER AND
LITTLER*Publication_Date:*

2006

*Title:*CALIFORNIA EELGRASS, HAB_SEAGRASS_SOCAL,
HAB_SURFGRASS*Geospatial_Data_Presentation_Form:*

vector digital data

Other_Citation_Details:

OSPR GRASS

Type_of_Source_Media:

CD-ROM

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

1982

Ending_Date:

2006

Source_Currentness_Reference:

DATE OF SURVEY

Source_Citation_Abbreviation:

NONE

Source_Contribution:

HABITATS INFORMATION

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

USFWS

Publication_Date:

2009

*Title:*FEDERALLY THREATENED AND ENDANGERED
PLANTS IN SAN DIEGO COUNTY*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 interviews with resource experts from the U.S. Fish and Wildlife Service (USFWS), California State Parks (CSP), Ryan Ecological Consulting, U.S. Navy, California Department of Fish and Game (CDF&G) Office of Spill Prevention and Response (OSPR), and University of California Santa Barbara (UCSB); 2) digital data provided by CDF&G, The Nature Conservancy, and the Santa Barbara Channelkeeper; and 3) published reports provided by CDF&G. 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:

201003

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:

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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:

8510

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Area point

Point_and_Vector_Object_Count:

8511

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Complete chain

Point_and_Vector_Object_Count:

13152

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Link

Point_and_Vector_Object_Count:

1665720

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type:

Node,planar graph

Point_and_Vector_Object_Count:

11218

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution:

0.0000001

Longitude_Resolution:

0.0000001

Geographic_Coordinate_Units:

Decimal degrees

*Geodetic_Model:**Horizontal_Datum_Name:*

North American Datum of 1983

Ellipsoid_Name:

Geodetic Reference System 80

Semi-major_Axis:

6378137.000000

Denominator_of_Flattening_Ratio:

298.257222

[Back To Index](#)*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:*

HABITATS.PAT

Entity_Type_Definition:

The HABITATS.PAT table contains attribute information for the vector polygons in this data set representing distribution of kelp, submerged aquatic vegetation (SAV), and select sensitive plants. Note that all attribute information is stored in a series of relational files, described below and in the Overview_Description section. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the relationships between attribute tables in the ESI data structure.

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

ID

Attribute_Definition:

An identifier that links vector objects in the biology data layers to records in the BIO_LUT data table. ID is a concatenation of atlas number (209), 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:*

2090300002

Range_Domain_Maximum:

2090309225

*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:*

209001025

Range_Domain_Maximum:

209001058

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

BIO_LUT

Entity_Type_Definition:

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

Entity_Type_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

RARNUM

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA

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

209000001

Range_Domain_Maximum:

209001289

*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 (209), 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:*

2090100002

Range_Domain_Maximum:

2092200052

*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:*

209000001

Range_Domain_Maximum:

209001289

*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 was available on concentrations of submerged aquatic vegetation, kelp, or plants; therefore this field was populated with "-".

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SEASON_ID

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

G_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

S_SOURCE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ELEMENT

Attribute_Definition:

Major categories of biological data.

Attribute_Definition_Source:
 NOAA ESI Guidelines

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

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

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 HABITAT
Enumerated_Domain_Value_Definition:
 Habitats and plants
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 INVERT
Enumerated_Domain_Value_Definition:
 Invertebrates
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

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

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

Attribute_Domain_Values:

*Enumerated_Domain:**Enumerated_Domain_Value:*

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

EL_SPE_SEA

Attribute_Definition:

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

Attribute_Definition_Source:

NOAA ESI Guidelines

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

E#####

Enumerated_Domain_Value_Definition:

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

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

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

SPECIES

Entity_Type_Definition:

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

Entity_Type_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SPECIES_ID

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

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:

1

Range_Domain_Maximum:

N

Attribute:

Attribute_Label:
NAME

Attribute_Definition:
Species common name for the entire ESI data set.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
GEN_SPEC

Attribute_Definition:
Species scientific name for the entire ESI data set.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

Attribute:

Attribute_Label:
ELEMENT

Attribute_Definition:
Major categories of biological data.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

BIRD

Enumerated_Domain_Value_Definition:

Birds

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

FISH

Enumerated_Domain_Value_Definition:

Fish

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

HABITAT

Enumerated_Domain_Value_Definition:

Habitats and plants

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

INVERT

Enumerated_Domain_Value_Definition:

Invertebrates

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

M_MAMMAL

Enumerated_Domain_Value_Definition:

Marine Mammals

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

REPTILE

Enumerated_Domain_Value_Definition:

Reptiles and Amphibians

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

T_MAMMAL

Enumerated_Domain_Value_Definition:

Terrestrial Mammals

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute:

Attribute_Label:
SUBELEMENT

Attribute_Definition:
Element subgroup delineating a logical grouping of species.

Attribute_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
alcid

Enumerated_Domain_Value_Definition:
Alcid

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:
bivalve

Enumerated_Domain_Value_Definition:
Bivalve

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
canine

Enumerated_Domain_Value_Definition:
Canine

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
Enumerated_Domain:

Enumerated_Domain_Value:
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:
 fish
Enumerated_Domain_Value_Definition:
 Fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 freshwater
Enumerated_Domain_Value_Definition:
 Freshwater fish
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gastropod
Enumerated_Domain_Value_Definition:
 Gastropod
Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
 gull_tern
Enumerated_Domain_Value_Definition:

Gull or tern

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

insect

Enumerated_Domain_Value_Definition:

Insect

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

invert

Enumerated_Domain_Value_Definition:

Invertebrate

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

kelp

Enumerated_Domain_Value_Definition:

Kelp

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

lizard

Enumerated_Domain_Value_Definition:

Lizard

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:

passerine

Enumerated_Domain_Value_Definition:

Passerine bird

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 pelagic
 Enumerated_Domain_Value_Definition:
 Pelagic bird
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 pinniped
 Enumerated_Domain_Value_Definition:
 Pinniped
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 plant
 Enumerated_Domain_Value_Definition:
 Plant
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 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:
 sea_otter
 Enumerated_Domain_Value_Definition:
 Sea otter
 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:

upland

Enumerated_Domain_Value_Definition:

Upland vegetation

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value:

wading

Enumerated_Domain_Value_Definition:

Wading bird

Enumerated_Domain_Value_Definition_Source:
NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 waterfowl
 Enumerated_Domain_Value_Definition:
 Waterfowl
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 wetland
 Enumerated_Domain_Value_Definition:
 Wetland
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value:
 whale
 Enumerated_Domain_Value_Definition:
 Whale
 Enumerated_Domain_Value_Definition_Source:
 NOAA ESI Guidelines

Attribute:
 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 BIORRES 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 and ESI_SOURCE in the ESI and HYDRO data layers.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Range_Domain:**Range_Domain_Minimum:*

1

Range_Domain_Maximum:

N

*Attribute:**Attribute_Label:*

ORIGINATOR

Attribute_Definition:

Author or developer of source material or data set.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATE_PUB

Attribute_Definition:

Date of source material, publication, or date of personal communication with expert source.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:*

YYYYMM

Enumerated_Domain_Value_Definition:

YYYY for year and optionally MM for month

Enumerated_Domain_Value_Definition_Source:

NOAA ESI Guidelines

*Attribute:**Attribute_Label:*

TITLE

Attribute_Definition:

Title of source material or data.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

DATA_FORMAT

Attribute_Definition:

The format of the source material.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUB_PLACE

Attribute_Definition:

Publication place.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLISHER

Attribute_Definition:

Publisher.

Attribute_Definition_Source:

NOAA ESI Guidelines

Attribute_Domain_Values:

Unrepresentable_Domain:

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

PUBLICATION

Attribute_Definition:

Additional citation information.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

ONLINE_LINK

Attribute_Definition:

Online computer resource URL.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

SCALE

Attribute_Definition:

Description of the source scale.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*Attribute:**Attribute_Label:*

TIME_PERIOD

Attribute_Definition:

Date(s) of data collection that the source material is based upon.

Attribute_Definition_Source:

NOAA ESI Guidelines

*Attribute_Domain_Values:**Unrepresentable_Domain:*

Acceptable values change from atlas to atlas.

*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

Southern California atlas, the number is 209), an element/layer specific number (BIRDS are layer 1, FISH are layer 2, etc.), and a unique record number. The RARNUM represents a unique combination of species, seasonalities, concentrations, and source information. For each of these groupings, a number is generated. That number is concatenated with the atlas number to create a "resource at risk" number that is unique across atlases. BIORES and the other relational data tables are described in detail in the Detailed_Description sections. See the Browse_Graphic section for a link to the entity-relationship diagram, which describes the way these tables relate to the geographic data layers and other attribute tables in the ESI data structure. Due to the complexity of the relational database model, the data items are also post-processed into a flat file format. This table, called BIOFILE, may be used in place of the relational files 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 in the Detailed_Description sections), except the BREED1-BREED5 and BREED items. BREED is a newly generated variable used to link to the BREED_DT data table, a modified, more compact version of the relational BREED data table. BREED1-BREED5 give a text summary of when each life stage occurs within the associated map object. The life stages referred to are the same as those listed in the Detailed_Description of the BREED data table. The link to the BIOFILE may be made through the BIO_LUT, using ID to link to RARNUM, or BIOFILE may be linked directly to the RARNUM in each of the geographic layer's attribute data tables. As mentioned, BREED_DT is an auxiliary support data table to the flat file structure, which allows the user to do searches based on month for seasonal breeding activities. The link from the flat file to BREED_DT is the BREED item. A second supporting data table is SOURCES. This is the same as the source file described above, and the link from the flat file is both G_SOURCE and S_SOURCE. It should be noted that although the flat file eases data query, it is not a normalized database structure, and actual updates performed by the states and other responsible agencies should be done using the relational data tables. The entity-relationship diagram describing relationships between attribute tables in the ESI data structure does NOT include the BIOFILE data table, and this data table is NOT described in a Detailed_Description section.

Entity_and_Attribute_Detail_Citation:

A complete description of entity types, attributes, and attribute values for ESI atlases can be found in the NOAA ESI Guidelines (http://response.restoration.noaa.gov/esi_guidelines).

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

John Kaperick

Contact_Organization:

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:

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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:

20100927

Metadata_Review_Date:

20100927

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:

Jill Petersen

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Address_Type:

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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/metadatarresource/metadatarreferences/files/ncddcmdprofile_v2.pdf

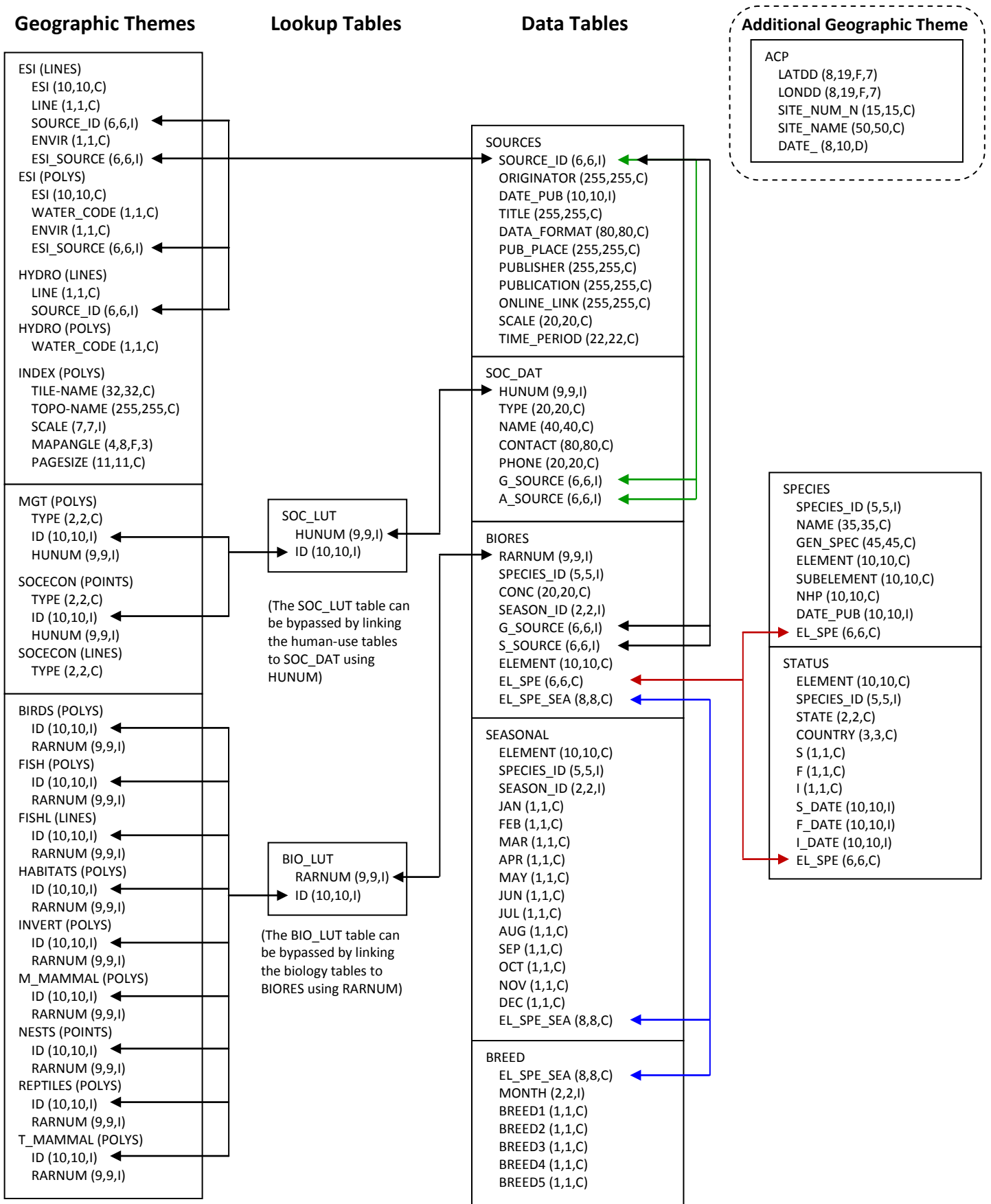
Profile_Name:

Content Specification for Metadata in the National Coastal Data Development Center's Data Catalog Version 2.0

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Southern California ESI – March 2010

Entity Relationship Diagram for the Relational Data Tables



Southern California ESI – March 2010

Entity Relationship Diagram for the Desktop / Flat File Approach

