

Identification_Information:

Citation:

Citation_Information:

Originator: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety

Administration (PHMSA)

Publication_Date: 201801

Title: UNUSUALLY SENSITIVE AREAS FOR ECOLOGICAL RESOURCES

Edition: 2

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Issue_Identification: Ecological USAs

Publication_Information:

Publication_Place: Washington, D.C.

Publisher: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety

Administration (PHMSA)

Other_Citation_Details: Prepared by NatureServe, Arlington, Virginia for the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration (PHMSA)

Description:

Abstract: This dataset comprises Unusually Sensitive Areas data for ecological resources (Eco USA) in the United States. In accordance with pipeline safety laws (49 U.S.C. Section 60109), except for proprietary or security sensitive data, PHMSA is required to identify areas unusually sensitive to environmental damage in the event of a hazardous liquid pipeline accident. Through interactions with various regulatory agencies, pipeline operators, private contractors, non-profit conservation organizations, and the general public, a process has been developed and adopted by PHMSA to identify USAs for ecological resources. The process consists of identifying a set of candidate ecological resources using approved data sources, and subjecting candidates to a set of filter criteria to determine USAs. The identification of USAs is conducted using standardized data processing steps and an automated GIS model. The resultant USA data are applicable to current and future regulatory requirements as specified by PHMSA, including but not limited to pipeline integrity management. For additional information concerning ecological USAs, please refer to the documents listed in the Cross Reference Section of this report. NatureServe was unable to produce updated Eco USA data for Hawaii, Delaware, Ohio, District of Columbia and Puerto Rico. Where applicable, the Eco USA data PHMSA is distributing for these areas includes updated Eco USA areas that originate from datasets produced in surrounding states, or Eco USA areas that existed in the previous Eco USA dataset.

Purpose: Pipeline operators conducting risk assessments can use ecological USAs, in conjunction with their pipeline information and other data, to identify areas that may suffer long-term and permanent environmental/resource damage in the event of a hazardous liquid pipeline accident. Users of these data are encouraged to read carefully the technical reports cited in the Cross Reference section to understand the limitations of the ecological USA data.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 201808

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Keywords:

Theme:

Theme_Keyword_Thesaurus: none

Theme_Keyword: Ecological Unusually Sensitive Areas

Theme_Keyword: Pipeline Safety

Theme_Keyword: Ecological resources

Theme_Keyword: Endangered species

Theme_Keyword: Imperiled species

Place:

Place_Keyword_Thesaurus: none

Place_Keyword: United States

Access_Constraints: A formal request must be made to the U. S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration to obtain access to this data layer. For more information, the National Pipeline Mapping System website can be accessed at <http://www.npms.phmsa.dot.gov>.

Use_Constraints: Use constraints will be supplied by the U. S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration upon receipt of data requests.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: GIS Manager

Contact_Organization: Pipeline and Hazardous Materials Safety Administration

Contact_Position: GIS Manager

Contact_Electronic_Mail_Address: npms@dot.gov

Data_Set_Credit: This project was conducted by the U. S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration. Raw data and information contributing to the development of ecological USAs were provided by The NatureServe Network, the National Oceanographic and Atmospheric Administration, the Ramsar Sites Information Service (<https://www.ramsar.org/>), the Manomet Center for Conservation Sciences, and others (refer to the lineage section for details). Research Planning, Inc. (RPI) provided technical support and was responsible for creating the final technical report. NatureServe was primarily responsible for processing the raw data, conducting and verifying model runs, and preparing the final datasets and metadata for delivery to PHMSA.

Security_Information:

Security_Classification: Restricted

Native_Data_Set_Environment: ESRI ArcGIS 10.5

Cross_Reference:

Citation_Information:

Originator: U. S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Title: UNUSUALLY SENSITIVE AREAS FOR ECOLOGICAL RESOURCES: STANDARDS AND BEST PRACTICES FOR DATABASE UPDATES

Geospatial_Data_Presentation_Form: document

Publication_Information:

Publication_Place: Washington, D.C.

Publisher: U. S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Other_Citation_Details: Prepared by Research Planning, Inc., Columbia, South Carolina for the U. S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Cross_Reference:

Citation_Information:

Originator: U. S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Title: 49 CFR Part 195, Pipeline Safety: Areas Unusually Sensitive to Environmental Damage; Final Rule

Geospatial_Data_Presentation_Form: document

Publication_Information:

Publication_Place: Washington, D.C.

Publisher: National Archives and Records Administration

Other_Citation_Details: Federal Register, Vol. 65, No. 246, Pages 80530-80546, December 21, 2000

Online_Linkage: <https://www.federalregister.gov/documents/2000/12/21/00-31756/pipeline-safety-areas-unusually-sensitive-to-environmental-damage>

Data_Quality_Information:

Logical_Consistency_Report: Integrity checks were run on all input datasets, using the process detailed in the technical reports. Additional review was conducted by RPI.

Completeness_Report: These data represent a synthesis of currently available digital data from a variety of sources. For additional information refer to the reports listed in the Cross Reference section above.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: The ecological USA dataset was developed from pre-existing digital sources 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 dataset.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: The NatureServe Network

Publication_Date: 2017

Title: NatureServe National Species Dataset

Publication_Information:

Publication_Place: Arlington, VA

Publisher: NatureServe

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

Online_Linkage: <http://www.natureserve.org/conservation-tools/national-species-dataset>

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2017

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: NS

Source_Contribution: Element Occurrence (EO) data for species that are imperiled (G1/G2), have federal U.S. Endangered Species Act (USES) status of Listed Threatened or Listed Endangered, or are Depleted Marine Mammal (DMM) species or population stocks, as defined by the Marine Mammal Protection Act (MMPA).

Source_Information:

Source_Citation:

Citation_Information:

Originator: WHSRN

Publication_Date: 20120717

Title: Western Hemisphere Shorebird Reserve Network (WHSRN):

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publisher: WHSRN

Other_Citation_Details: Updated July 17, 2012

Online_Linkage: <https://www.whsrn.org/>

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20120717

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: WHSRN

Source_Contribution: Migratory Waterbird Concentration Areas

Source_Information:

Source_Citation:

Citation_Information:

Publication_Date: 201705

Title: Wetlands of International Importance (Ramsar)

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publisher: The Ramsar Convention Secretariat

Other_Citation_Details: Ramsar GIS data downloaded in May 2017 from: <https://rsis.ramsar.org/>

Online_Linkage: <https://www.ramsar.org/>

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 201705

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: RAMSAR

Source_Contribution: Migratory Waterbird Concentration Areas

Source_Information:

Source_Citation:

Citation_Information:

Originator: NOAA Office of Response and Restoration

Title: Environmental Sensitivity Index (ESI) Data

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: Silver Spring, Maryland

Publisher: NOAA Office of Response and Restoration

Online_Linkage: <https://response.restoration.noaa.gov/maps-and-spatial-data/download-esi-maps-and-gis-data.html>

Source_Citation_Abbreviation: ESI

Source_Contribution: Environmental Sensitivity Index (ESI) Species data for species that are imperiled (G1/G2), have federal U.S. Endangered Species Act (UESA) status of Listed Threatened or

Listed Endangered, or are Depleted Marine Mammal (DMM) species or population stocks, as defined by the Marine Mammal Protection Act (MMPA).

Source_Information:

Source_Citation:

Citation_Information:

Originator: Texas General Land Office

Publication_Date: 20170810

Title: Environmental Sensitivity Index (ESI) Data - Texas Lower Coast

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: Austin, TX

Publisher: Texas General Land Office

Other_Citation_Details: received 8/10/2017

Online_Linkage: <http://www.glo.texas.gov/coast/oil-spill/toolkit/>

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20170810

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: ESI-TX Lower

Source_Contribution: Environmental Sensitivity Index (ESI) Species data for species in the Texas Lower Coast that are imperiled (G1/G2), have federal U.S. Endangered Species Act (USESA) status of Listed Threatened or Listed Endangered, or are Depleted Marine Mammal (DMM) species or population stocks, as defined by the Marine Mammal Protection Act (MMPA).

Source_Information:

Source_Citation:

Citation_Information:

Originator: US Geological Survey (USGS) Gap Analysis Program (GAP)

Publication_Date: 20160505

Title: Protected Areas Database of the United States (PAD-US), version 1.4

Edition: Version 1.4

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: <http://gapanalysis.usgs.gov/padus/>

Publisher: USGS Gap Analysis Program (GAP)

Other_Citation_Details: U.S. Geological Survey, Gap Analysis Program (GAP). May 2016.

Protected Areas Database of the United States (PAD-US), version 1.4 Combined Feature Class.

Online_Linkage: <https://gapanalysis.usgs.gov/padus/>

Online_Linkage: <http://gapanalysis.usgs.gov/padus/data/>

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20160505

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: USGS PAD

Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.

Source_Information:

Source_Citation:

Citation_Information:
 Originator: Wisconsin Natural Heritage Inventory
 Publication_Date: 2017
 Title: Door Peninsula Coastal Wetlands
 Online_Linkage: <http://dnr.wi.gov/topic/nhi/>
 Source_Citation_Abbreviation: WI NHI
 Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.

Source_Information:
 Source_Citation:
 Citation_Information:
 Originator: South Carolina Heritage Trust
 Publication_Date: 2017
 Title: Francis Beidler Forest
 Online_Linkage: <http://www.dnr.sc.gov/>
 Source_Citation_Abbreviation: SC NHT
 Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.

Source_Information:
 Source_Citation:
 Citation_Information:
 Originator: Michigan Natural Features Inventory
 Publication_Date: 2017
 Title: Humbug Marsh
 Online_Linkage: <http://mnfi.anr.msu.edu/>
 Source_Citation_Abbreviation: MI NFI
 Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.

Source_Information:
 Source_Citation:
 Citation_Information:
 Originator: Bad River Band of Lake Superior Chippewa Indians, Natural Resources Department
 Publication_Date: 2017
 Title: Kakagon and Bad River Sloughs
 Online_Linkage: <http://www.badriver-nsn.gov/tribal-operations/natural-resources>
 Source_Citation_Abbreviation: Bad River
 Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.

Source_Information:
 Source_Citation:
 Citation_Information:
 Originator: Vermont Protected Lands Database
 Publication_Date: 2017
 Title: Missisquoi Delta and Bay Wetlands
 Online_Linkage: <http://geodata.vermont.gov/datasets/vt-protected-lands-database>
 Source_Citation_Abbreviation: VT PAD
 Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.

Source_Information:
 Source_Citation:
 Citation_Information:
 Originator: GreenInfo Network
 Publication_Date: 2012

Title: San Francisco Bay Estuary
 Online_Linkage: <http://www.greeninfo.org/>
 Source_Citation_Abbreviation: GreenInfo
 Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.
 Source_Information:
 Source_Citation:
 Citation_Information:
 Originator: Illinois Department of Natural Resources Owned, Managed, Leased Properties dataset
 Publication_Date: 2017
 Title: Sue and Wes Dixon Waterfowl Refuge at Hennepin & Hopper Lakes
 Online_Linkage: <https://www.dnr.illinois.gov/Pages/default.aspx>
 Source_Citation_Abbreviation: IL DNR
 Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.
 Source_Information:
 Source_Citation:
 Citation_Information:
 Originator: Research Planning, Inc.
 Publication_Date: 2001
 Title: RAMSAR Boundaries from 2001 EcoUSA Analysis
 Source_Citation_Abbreviation: RPI
 Source_Contribution: Site boundaries for RAMSAR sites that are in point format only.
 Source_Information:
 Source_Citation:
 Citation_Information:
 Originator: U.S. Geological Survey
 Title: NHD High Resolution File GDB 10.1 Model Version 2.2.1
 Publication_Information:
 Publication_Place: Reston, VA
 Publisher: U.S. Geological Survey
 Online_Linkage: <http://prd-tnm.s3-website-us-west-2.amazonaws.com/?prefix=StagedProducts/Hydrography/NHD/State/HighResolution/GDB/>
 Source_Citation_Abbreviation: NHD
 Source_Contribution: Hydrography data for processing point ESI records that are considered Aquatic Open Water (AOW).
 Process_Step:
 Process_Description: Pre-processing of ESI species data for inclusion as potential EcoUSAs. For complete details, please see the technical documentation, which can be requested by emailing the PHMSA GIS Manager at npms@dot.gov.
 Source_Used_Citation_Abbreviation: ESI
 Source_Used_Citation_Abbreviation: ESI-TX Lower
 Source_Used_Citation_Abbreviation: NHD
 Process_Date: 201711
 Process_Contact:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Person: Lynn Kutner
 Contact_Organization: NatureServe
 Contact_Position: Conservation Data Analyst

Contact_Voice_Telephone: 703-797-4804

Contact_Electronic_Mail_Address: lynn_kutner@natureserve.org

Process_Step:

Process_Description: Pre-processing of NatureServe Element Occurrence (EO) data for inclusion as potential EcoUSAs. For complete details, please see the technical documentation, which can be requested by emailing the PHMSA GIS Manager at npms@dot.gov.

Source_Used_Citation_Abbreviation: NS

Process_Date: 201711

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Jason McNees

Contact_Organization: NatureServe

Contact_Position: Conservation Data Analyst

Contact_Voice_Telephone: 703-908-1849

Contact_Electronic_Mail_Address: jason_mcnees@natureserve.org

Process_Step:

Process_Description: Pre-processing of WHSRN data for inclusion as potential EcoUSAs. For complete details, please see the technical documentation, which can be requested by emailing the PHMSA GIS Manager at npms@dot.gov.

Source_Used_Citation_Abbreviation: WHSRN

Process_Date: 201711

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Jason McNees

Contact_Organization: NatureServe

Contact_Position: Conservation Data Analyst

Contact_Voice_Telephone: 703-908-1849

Contact_Electronic_Mail_Address: jason_mcnees@natureserve.org

Process_Step:

Process_Description: Pre-processing of RAMSAR data for inclusion as potential EcoUSAs. For complete details, please see the technical documentation, which can be requested by emailing the PHMSA GIS Manager at npms@dot.gov.

Source_Used_Citation_Abbreviation: RAMSAR

Source_Used_Citation_Abbreviation: USGS PAD

Source_Used_Citation_Abbreviation: WI NHI

Source_Used_Citation_Abbreviation: SC NHT

Source_Used_Citation_Abbreviation: MI NFI

Source_Used_Citation_Abbreviation: Bad River

Source_Used_Citation_Abbreviation: VT PAD

Source_Used_Citation_Abbreviation: GreenInfo

Source_Used_Citation_Abbreviation: IL DNR

Source_Used_Citation_Abbreviation: RPI

Process_Date: 201711

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Jason McNees
Contact_Organization: NatureServe
Contact_Position: Conservation Data Analyst
Contact_Voice_Telephone: 703-908-1849
Contact_Electronic_Mail_Address: jason_mcnees@natureserve.org

Process_Step:

Process_Description: Creation of EcoUSA - for details of the criteria and process for creating EcoUSA, please see the technical documentation, which can be requested by emailing the PHMSA GIS Manager at npms@dot.gov.

Process_Date: 201712

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Leigha Gooding
Contact_Organization: US DOT PHMSA
Contact_Position: Acting GIS Manager

Contact_Address:

Address_Type: mailing and physical address
Address: 1200 New Jersey Ave SE, PHMSA PHP-20
City: Washington
State_or_Province: DC
Postal_Code: 20590
Country: USA

Contact_Voice_Telephone: 202-366-0667

Contact_Electronic_Mail_Address: leigha.gooding@dot.gov

Spatial_Data_Organization_Information:

Indirect_Spatial_Reference: USA, EcoUSA

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon
Point_and_Vector_Object_Count: 166312 in national dataset

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: Element Occurrence Polygons

Attribute:

Attribute_Label: OBJECTID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: Srce_Code

Attribute_Definition: Code for the origin source

Attribute_Definition_Source: NatureServe

Attribute:

Attribute_Label: Srce_Type

Attribute_Definition: Name of the origin source

Attribute_Definition_Source: NatureServe

Attribute:

Attribute_Label: ECOUNIQUE

Attribute_Definition: unique EcoUSA ID code: ECO+[yyyy]+unique sequential numeric ID

Attribute_Definition_Source: NatureServe

Attribute:

Attribute_Label: Shape_Length

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: Shape_Area

Attribute_Definition: Area of feature in internal units squared.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: OS_JURIS

Attribute_Definition: Offshore jurisdiction: Indicates approximated jurisdiction of offshore areas as either STATE, FED or INLAND. If the area is approximated onshore or inland waters, the value is INLAND.

Attribute_Definition_Source: US DOT PHMSA

Attribute:

Attribute_Label: OS_DESC

Attribute_Definition: Offshore description: Describes the approximated type of offshore area.

Areas approximated as on shore, in state or inland waters will have a state abbreviation value. For those which are on the Outer Continental Shelf (OCS) the value describes OCS area as Alaska (AK), Atlantic (ATL), Gulf of Mexico (GOM) or Pacific (PAC).

Attribute_Definition_Source: US DOT PHMSA

Attribute:

Attribute_Label: OS_ST_ABBR

Attribute_Definition: Offshore or state Abbreviation: Abbreviation of the state when area is not in federal waters. All areas approximated as inland or offshore in state or inland waters have the state abbreviation as a value. All offshore features which are part of an OCS area are identified as "OS".

Attribute_Definition_Source: US DOT PHMSA

Overview_Description:

Distribution_Information:

Distributor: US DOT PHMSA

Contact_Information:

Contact_Person_Primary:

Contact_Person: Leigha Gooding
Contact_Organization: US DOT PHMSA
Contact_Electronic_Mail_Address: leigha.gooding@dot.gov
Contact_Position: npms@dot.gov

Resource_Description: Ecological USAs

Distribution_Liability: PHMSA will only distribute ecological USA data to hazardous liquid pipeline operators by request. Operators may share data with their contractor/consultant data Users. All data Users must complete NatureServe training and agree to NatureServe terms of use before PHMSA will release ecological USA data. Hazardous liquid pipeline operators who request ecological USA data from PHMSA are responsible for ensuring each data User completes the required NatureServe training before he/she uses the ecological USA data inside a GIS software program. All other third party requests should be directed to <https://www.npms.phmsa.dot.gov/USAEcoData.aspx>. Ecological USA data is provided with the understanding that it is not guaranteed to be correct or complete and conclusions drawn from such information are the responsibility of the user.

Custom_Order_Process: To request ecological USA data, please follow the instructions at <https://www.npms.phmsa.dot.gov/USAEcoData.aspx>.

Metadata_Reference_Information:

Metadata_Date: 20190806

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Leigha Gooding
Contact_Organization: US DOT PHMSA
Contact_Position: Acting GIS Manager
Contact_Voice_Telephone: 202-366-0667
Contact_Electronic_Mail_Address: leigha.gooding@dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998