



Metadata for Coastal Ecological Unusually Sensitive Area data (Coastal Eco USA, Version 2)

Identification_Information

Citation

Citation_Information

Originator: U.S. Department of Transportation (US DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA), National Pipeline Mapping System (NPMS)

Publication_Date: 06/07/2024

Title: Coastal Eco USA, Version 2

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information

Publication_Place: Washington, DC

Publisher: U.S. Department of Transportation (US DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA), National Pipeline Mapping System (NPMS)

Online_Linkage: <www.npms.phmsa.dot.gov>

Originator: (Source Data used to produce the Coastal Eco USA data) Environmental Protection Agency (EPA), National Oceanic and Atmospheric Administration (NOAA).

Publication_Date: November 2016 (NOAA Clean Water Act); June 2023 (NOAA Sea Level Rise); November 2021 (EPA Estuary Data Mapper)

Title: NOAA Clean Water Act; NOAA Sea Level Rise 0-foot; EPA Estuary Data Mapper

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information

Publisher: NOAA Digital Coast; NOAA Marine Cadastre; EPA Estuary Data Mapper

Online_Linkage: <<https://coast.noaa.gov/digitalcoast/tools/slr.html>>

Online_Linkage: <MarineCadastre.gov>

Online_Linkage: <<https://www.epa.gov/hesc/about-estuary-data-mapper-edm/>>

Description

Abstract:

This dataset includes polygon GIS data currently available from government agencies that depict certain coastal waters and coastal beaches (collectively referred to as Coastal Eco USAs) per the U.S. Congress' PIPES Act of 2020: the PIPES Act of 2020 defines certain coastal waters and coastal beaches to mean:

- (A) Certain coastal waters.—The term “certain coastal waters” means—
 - (i) the territorial sea of the United States;
 - (ii) the Great Lakes and their connecting waters; and
 - (iii) the marine and estuarine waters of the United States up to the head of tidal influence.
- (B) Coastal beach.—The term “coastal beach” means any land between the high- and low-water marks of certain coastal waters.

PHMSA gathered these data from the National Oceanic and Atmospheric Administration's Office for Coastal Management and The Environmental Protection Agency's Estuary Data Mapper. Specifically, PHMSA gathered subsets of NOAA's Clean Water Act GIS data layer; NOAA's Sea Level Rise GIS data layers; NOAA's US State Submerged Lands Act GIS data layer; and EPA's Estuary Data Map GIS data layer. NOAA distributes its Clean Water Act and US State Submerged Lands Act data through the Marine Cadastre and its Sea Level Rise data through its Digital Coast platform; EPA distributes its Estuary Data Map data through its Estuary Data Map GUI.

From the NOAA Clean Water Act data PHMSA removed the features that represent water area beyond the 12nm line per the definition of territorial sea and incorporated the remaining data into this dataset. From the NOAA US Submerged Lands Act data PHMSA removed all features not connected to the Great Lakes as defined in US Code and incorporated the data representing the Great Lakes into this dataset. From the NOAA Sea Level Rise data PHMSA used only the layer defined by NOAA to have 0 feet of modeled sea level rise, in other words the current limit of the mean higher high water, based off of digital elevation models. From the EPA Estuary Data Mapper data PHMSA merged regional estuaries layers that were downloaded directly from the application. For more information about these source datasets, please view the corresponding online linkages provided in this metadata.

PHMSA's dataset includes data only for the Contiguous U.S., Alaska, Hawaii, and Puerto Rico.

Processing Information:

Where necessary, individual data layers were processed to isolate only the features pertinent to the definition of certain coastal waters and coastal beaches. Each layer was then merged into one singular layer. Due to the complexity of some layers as well as overlap between layers, it was also necessary to perform further processing to remove overlap and, where possible, dissolve coincident features to reduce unnecessary feature segmentation. The dataset was also clipped along the U.S.- Canada border to eliminate portions of features located in Canada. PHMSA verified that there was no feature crossing the U.S. – Mexico border.

From the NOAA Clean Water Act data PHMSA removed the features that represent water area beyond the 12nm line per the definition of territorial sea and incorporated the remaining data into this dataset. From the NOAA US Submerged Lands Act data PHMSA removed all features not connected to the Great Lakes as defined in US Code and incorporated the data representing the Great Lakes into this dataset. From the NOAA Sea Level Rise data PHMSA used only the layer defined by NOAA to have 0 feet of modeled sea level rise, in other words the current limit of the mean higher high water, based off of digital elevation models. From the EPA Estuary Data Mapper data PHMSA merged regional estuaries layers that were downloaded directly from the application. For more information about these source datasets, please view the corresponding online linkages provided in this metadata.

Note that as of March 2025 a geographical name change was made to certain polygons in this dataset to reflect the U.S. Department of the Interior Secretarial Order 3423 - The Gulf of America. All data remained spatially unchanged.

Processing Date: 20240607

Purpose:

Section 19 of the Protecting our Infrastructure of Pipeline and Enhancing Safety Act of 2020 (PIPES Act) designated “Certain Coastal Waters and Coastal Beaches” (see definition in this metadata) as an Unusually Sensitive Area (USA) ecological resource, a subset of high consequence areas (HCA) per 49 CFR § 195.450. PHMSA is distributing this GIS data through the National Pipeline Mapping System website (www.npms.phmsa.dot.gov) for hazardous liquid pipeline operators to use in determining if a pipeline could affect a certain coastal water or coastal beach, as an HCA, for integrity management planning. Guidelines to determine whether a release “could affect” an HCA are included in 49 CFR Part 195, Appendix C. Hazardous liquid pipeline operators should note that this dataset is one resource to aid them in the process of determining which pipelines could affect a certain coastal water or coastal beach; it is not meant to replace other available resources pertinent to their areas of operation that might also aid in making this determination.

Supplemental_Information

Calendar_Date: 2024

Currentness_Reference: publication date

Status

Progress: Complete

Maintenance_and_Update_Frequency: Needs assessment performed every two years and data updated if necessary based on publicly available data from a federal data source. Last update was completed June 2024 to reflect updates made to NOAA's Sea Level Rise data since publication of Coastal Eco USA V1.

Spatial_Domain

Bounding_Coordinates

West_Bounding_Coordinate: -180.00000

East_Bounding_Coordinate: 180.00000

North_Bounding_Coordinate: 71.588954

South_Bounding_Coordinate: 17.473094

Keywords

Theme

Theme_Keyword_Thesaurus: None

Theme_Keyword: Territorial Sea

Theme_Keyword: Great Lakes

Theme_Keyword: Marine Waters

Theme_Keyword: Estuarine Waters

Theme_Keyword: Coastal Beach

Theme_Keyword: Certain Coastal Waters

Theme_Keyword: PHMSA

Theme_Keyword: Pipeline Safety

Theme_Keyword: High Consequence Area

Theme_Keyword: HCA

Theme_Keyword: Unusually Sensitive Area

Theme_Keyword: USA

Theme_Keyword: Integrity Management Planning

Theme_Keyword: Integrity Management Plan

Theme_Keyword: IMP

Theme_Keyword: Hazardous Liquid Pipeline

Theme_Keyword: Polygon

Place

Place_Keyword_Thesaurus: None

Place_Keyword: United States

Place_Keyword: Great Lakes

Place_Keyword: Gulf of America

Place_Keyword: Atlantic Coast

Place_Keyword: Pacific Coast

Place_Keyword: Alaska

Place_Keyword: Hawaii

Place_Keyword: Puerto Rico

Access_Constraints: None

Use_Constraints: These data are intended to help certain pipeline operators identify certain coastal waters and coastal beaches as defined in section 19 of the PIPES Act of 2020 for the purpose of integrity management planning and assisting with the process of determining if a hazardous liquid pipeline could affect a coastal Eco USA resource. Otherwise, use constraints are inherited from the source data providers, for example NOAA's US State Submerged Lands GIS data:
<https://www.marinecadastre.gov/about/disclaimer.html>

Point_of_Contact (National Pipeline Mapping System, Coastal Eco USA)

Contact_Information

Contact_Organization_Primary

Contact_Organization: U.S. Department of Transportation (US DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA), National Pipeline Mapping System (NPMS)

Contact_Person: Leigha Gooding, GIS Manager

Contact_Address

Address_Type: physical address

Address: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 1200 New Jersey Ave., SE

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

Contact_Person: Nathaniel Thompson, GIS Coordinator

Contact_Address

Address_Type: physical address

Address: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 1200 New Jersey Ave., SE

City: Washington

State_or_Province: DC

Postal_Code: 20590

Country: USA

Contact_Voice_Telephone: 202.843.3818

Contact_Electronic_Mail_Address: nathaniel.thompson@dot.gov

Point_of_Contact (Source Data):

Contact_Information

Contact_Organization_Primary: NOAA Office for Coastal Management

Contact_Organization: NOAA

Contact_Person: MarineCadastre.gov Data Steward

Contact_Address

Address_Type: mailing and physical address

Address: 2234 South Hobson Avenue

City: Charleston

State_or_Province: SC

Postal_Code: 29405-2413

Country: USA

Contact_Voice_Telephone: 843.740.1202

Contact_Electronic_Mail_Address: coastal.info@noaa.gov

Contact_Organization_Primary: EPA Office of High-End Scientific Computing

Contact_Organization: EPA

Contact_Address

Address_Type: mailing and physical address

Address: 109 TW Alexander Drive, Mail Code: N229-01

City: RTP

State_or_Province: NC

Postal_Code: 27711

Country: USA

Data_Quality_Information

Attribute_Accuracy

Attribute_Accuracy_Report

The attributes in this dataset are believed to be accurate. Note that this data does not include attribution that distinguishes the source data layer. The attributes reflect the location of the feature (classified by state or federal waters area). These attributes were applied by adding segmentation to separate state land based on U.S. Census Bureau boundaries and water from federal waters based on NOAA boundaries. Analysts visually validated the attributes as correct.

Positional_Accuracy

Horizontal_Positional_Accuracy

Horizontal_Positional_Accuracy_Report:

Maximum scale of intended use is 1:80,000

Spatial Reference Information

Horizontal Coordinate System Definition

Geographic

Latitude Resolution: .00001

Longitude Resolution: .00001

Geographic Coordinate Units: Decimal Degrees

Geodetic Model

Horizontal Datum Name: North American Datum of 1983

Spheroid Name: Geographic Reference System 1980

Semi-major Axis: 6378137.0

Denominator of Flattening Ratio: 298.257222

Entity and Attribute Information

Detailed Description

Entity Type

Entity Type Label: Certain Coastal Waters and Coastal Beaches (Collectively referred to as Coastal Eco USAs)

Entity Type Definition: Feature class representing spatial extent of the Certain Coastal Waters and Coastal Beaches as available from government data sources for the intent of the Protecting our Infrastructure of Pipeline and Enhancing Safety Act of 2020 (PIPES Act)

Entity Type Definition Source: PHMSA

Attribute

Attribute Label: FID

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

Enumerated Domain

Enumerated Domain Value: Polygon

Enumerated Domain Value Definition: Polygon shapes as defined by ESRI

Enumerated Domain Value Definition Source: ESRI Internal Attribute

Attribute

Attribute Label: LOCATION

Attribute Definition: Location of the feature, classified either by state (including state waters), specific offshore area, or Great Lakes and connecting waters.

Attribute Definition Source: PHMSA

Attribute Domain Values

Enumerated Domain

Enumerated Domain Value: Free text

Enumerated Domain Value Definition: State abbreviation including state waters (e.g. "TX AND STATE WATERS", "PA", "DC"), Outer Continental Shelf area in Atlantic Ocean, Gulf of America, Pacific Ocean, and Alaska (e.g. "OCS ATL"), or Great Lakes (e.g. "GREAT LAKES AND CONNECTING WATERS")

Enumerated Domain Value Definition Source: NPMS

Distribution_Information

Distributor

Contact_Information

Contact_Organization_Primary

Contact_Organization: U.S. Department of Transportation (US DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA), National Pipeline Mapping System (NPMS)

Contact_Person: Leigha Gooding, GIS Manager

Contact_Address

Address_Type: physical address

Address: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 1200 New Jersey Ave., SE

City: Washington

State_or_Province: District of Columbia

Postal_Code: 20590

Country: USA

Contact_Voice_Telephone: 202.366.0667

Contact_Electronic_Mail_Address: leigha.gooding@dot.gov

Resource_Description: National Pipeline Mapping System

Distribution_Liability: None

Standard_Order_Process

Digital_Form

Digital_Transfer_Information

Format_Name: Esri Shapefile

Format_Version_Date: 2021

File-Decompression_Technique: SecureZIP, no password. Open using any ZIPfile program.

Network_Resource_Name: www.npms.phmsa.dot.gov

Access_Instructions:

Anyone with access to the World Wide Web may download this data from www.npms.phmsa.dot.gov.

Offline_Option

Fees: None

Ordering_Instructions:

Call 202.366.0667 or E-mail (leigha.gooding@dot.gov) to request the Coastal Eco USA data set on a DVD.

Technical_Prerequisites: Software that can process GIS files.

Metadata Reference Information

Metadata_Date: 20240607

Metadata_Contact

Contact_Information

Contact_Person_Primary

Contact_Person: Leigha Gooding, GIS Manager

Contact_Organization_Primary

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Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998