

ecomajpy

Metadata also available as

Metadata:

- [Identification Information](#)
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Identification_Information:

Citation:

Citation_Information:

Originator: TPWD GIS Lab
Publication_Date: 20100312
Title: ecomajpy
Geospatial_Data_Presentation_Form: vector digital data
Publication_Information:

Publication_Place: Austin, TX
Publisher: Texas Parks and Wildlife Department

Other_Citation_Details: Size of Data: approx. 88 MB
Online_Linkage:
 \\Gis-datasrvr\GIS_Data1\GIS_Archive\texas\tsms\bio\shp\ecomajpy.shp
Larger_Work_Citation:

Citation_Information:

Originator: Western Ecology Division, US EPA, Corvallis, Oregon
Publication_Date: 2009
Title: Level III and IV Ecoregions of the Conterminous United States
Geospatial_Data_Presentation_Form: vector digital data

Description:

Abstract:

Ecoregions denote areas of general similarity in ecosystems and in the type, quality, and quantity of environmental resources. They are designed to serve as a spatial framework for the research, assessment, management, and monitoring of ecosystems and ecosystem components. These general purpose regions are critical for structuring and implementing ecosystem management strategies across federal agencies, state agencies, and nongovernment organizations that are responsible for different types of resources within the same geographical areas. The approach used to compile this map is based on the

premise that ecological regions can be identified through the analysis of patterns of biotic and abiotic phenomena, including geology, physiography, vegetation, climate, soils, land use, wildlife, and hydrology. The relative importance of each characteristic varies from one ecological region to another. A Roman numeral hierarchical scheme has been adopted for different levels for ecological regions. Level I is the coarsest level, dividing North America into 15 ecological regions. Level II divides the continent into 52 regions (Commission for Environmental Cooperation Working Group, 1997). At Level III, the continental United States contains 104 regions whereas the conterminous United States has 84 (U.S. Environmental Protection Agency, 2005). Level IV ecoregions are further subdivisions of Level III ecoregions. Methods used to define the ecoregions are explained in Omernik (1995, 2004), Omernik and others (2000), and Gallant and others (1989).

Literature cited: Commission for Environmental Cooperation Working Group, 1997, Ecological regions of North America- toward a common perspective: Montreal, Commission for Environmental Cooperation, 71 p. Gallant, A. L., Whittier, T.R., Larsen, D.P., Omernik, J.M., and Hughes, R.M., 1989, Regionalization as a tool for managing environmental resources: Corvallis, Oregon, U.S. Environmental Protection Agency, EPA/600/3-89/060, 152p. Omernik, J.M., 1995, Ecoregions - a framework for environmental management, in Davis, W.S. and Simon, T.P., eds., Biological assessment and criteria-tools for water resource planning and decision making: Boca Raton, Florida, Lewis Publishers, p.49-62. Omernik, J.M., Chapman, S.S., Lillie, R.A., and Dumke, R.T., 2000, Ecoregions of Wisconsin: Transactions of the Wisconsin Academy of Science, Arts, and Letters, v. 88, p. 77-103. Omernik, J.M., 2004, Perspectives on the nature and definitions of ecological regions: Environmental Management, v. 34, Supplement 1, p. s27-s38.

Comments and questions regarding the Level III and IV Ecoregions should be addressed to Glenn Griffith, Dynamac Corporation, c/o US EPA., 200 SW 35th Street, Corvallis, OR 97333, (541)-754-4465, email:griffith.glenn@epa.gov Alternate: James Omernik, USGS, c/o US EPA, 200 SW 35th Street, Corvallis, OR 97333, (541)-754-4458, email:omernik.james@epa.gov

Purpose:

Ecoregion maps assist managers of aquatic and terrestrial resources to understand the regional patterns of the realistically attainable quality of these resources.

Supplemental_Information:

Electronic versions of ecoregion maps and posters, as well as other ecoregion resources are available at: <http://www.epa.gov/wed/pages/ecoregions.htm>.

Level IV ecoregions are not complete for California and Arizona, as of December, 2009. For these states, the polygons are for Level III only and the field "LEVEL4CODE" contains placeholder information derived from "LEVEL3CODE". Ecoregions were digitized at 1:250,000 scale and are intended for large geographic extents (i.e. states, multiple counties, or river basins). Use for smaller areas, such as individual counties or a 1:24,000 scale map boundary, is not recommended.

TPWD GIS Lab: 20100312 - The ecoregpy file in the GIS archive was used to create this file by dissolving on the level3code and level3name attributes.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2009

Currentness_Reference: Ongoing

Status:

Progress: Ongoing

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -106.976165
East_Bounding_Coordinate: -93.121756
North_Bounding_Coordinate: 36.534206
South_Bounding_Coordinate: 25.705948

Keywords:

Theme:

Theme_Keyword_Thesaurus:
REQUIRED: Reference to a formally registered thesaurus or a similar authoritative source of theme keywords.
Theme_Keyword: Level III Ecoregions

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Categories
Theme_Keyword: biota
Theme_Keyword: environment
Theme_Keyword: geoscientificinformation

Place:

Place_Keyword: State of Texas
Place_Keyword: Texas
Place_Keyword: TX

Access_Constraints: None
Use_Constraints: none
Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Glenn Griffith
Contact_Organization: Dynamac Corporation

Contact_Address:

Address_Type: mailing and physical address
Address: c/o US EPA., 200 SW 35th
City: Corvallis
State_or_Province: Oregon
Postal_Code: 97333
Country: USA

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.3.1.3500

Cross_Reference:

Citation_Information:

Originator: Western Ecology Division, US EPA, Corvallis, Oregon

Publication_Date: 2009
Title: Level III and IV Ecoregions of the Conterminous United States
Geospatial_Data_Presentation_Form: vector digital data
Publication_Information:

Publication_Place: Corvallis, Oregon
Publisher: US EPA

Online_Linkage: <<http://www.epa.gov/wed/pages/ecoregions.htm>>.
Larger_Work_Citation:

Citation_Information:

Publication_Date: 2009
Title: Level III and IV Ecoregions of the Conterminous United States

Data_Quality_Information:

Logical_Consistency_Report:
Although ecoregion polygons and attributes have been checked for accuracy, some errors may remain.

Completeness_Report:
Level IV ecoregions are not complete for California and Arizona, as of December, 2009. For these states, the polygons are for Level III only and the field "LEVEL4CODE" contains placeholder information derived from "LEVEL3CODE". Ecoregions were digitized at 1:250,000 scale and are intended for large geographic extents (i.e. states, multiple counties, or river basins). Use for smaller areas, such as individual counties or a 1:24,000 scale map boundary, is not recommended.

Lineage:

Source_Information:

Source_Contribution:
The state borders were derived from the dtl_st.sdc on the ArcGIS DVD provided by ESRI. It was modified by removing Alaska and Hawaii polygons and all but the State field, adding some coastal islands based on imagery or NHDPlus areas, and restoring topology (removing internal gaps and small overlaps).

Process_Step:

Process_Description:
1) U.S.G.S. 1:250,000 topographic maps are used to delineate the ecoregions. The lines drawn are manually digitized or scanned to produce georeferenced electronic files. 2) All base maps are joined together and errors along the edges are resolved. 3) Topology is established and the maps are reviewed for accuracy, completeness, and conformity with the original lines. Corrections are made as needed and topology regenerated. 4) Attributes are added. 5) Maps are plotted for visual inspection by two individuals and necessary changes made. 6) Ecoregions from all available states are merged and dissolved to identify and correct inconsistencies. 7) Polygons of the corrected seamless ecoregion features are extended beyond the coastal borders. 8) State and Ecoregion datasets are intersected. 9) Topology errors removed.

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: GIS contractors to US EPA

Contact_Address:

Address_Type: mailing and physical address
Address: c/o US EPA
Address: 200 SW 35th Street
City: Corvallis
State_or_Province: Oregon
Postal_Code: 97333
Country: USA

Contact_Electronic_Mail_Address: johnson.colleen@epa.gov

Process_Step:

Process_Description: Metadata imported.
Source_Used_Citation_Abbreviation:
C:\DOCUME~1\cjohns05\LOCALS~1\Temp\xml635.tmp
Process_Date: 20091214
Process_Time: 09402400

Process_Step:

Process_Description: Metadata imported.
Source_Used_Citation_Abbreviation: M:\cyn\work\bio\ecomaj\20100312\useco_rev1.xml
Process_Date: 20100312
Process_Time: 12431500

Process_Step:

Process_Description: Dataset copied.
Source_Used_Citation_Abbreviation:
Process_Date: 20100312
Process_Time: 13200200

Process_Step:

Process_Description: Dataset copied.
Source_Used_Citation_Abbreviation: M:\cyn\work\bio\ecomaj\20100312\ecomajpy
Process_Date: 20100312
Process_Time: 14350300

Spatial_Data_Organization_Information:

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: 12

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Map_Projection:

Map_Projection_Name: Lambert Conformal Conic
Lambert_Conformal_Conic:

Standard_Parallel: 27.416667
Standard_Parallel: 34.916667
Longitude_of_Central_Meridian: -100.000000
Latitude_of_Projection-Origin: 31.166667
False_Easting: 1000000.000000
False_Northing: 1000000.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:

Abcissa_Resolution: 0.000000
Ordinate_Resolution: 0.000000

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137.000000
Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: ecomajpy

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:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: LEVEL3CODE
Attribute_Definition: Code for Level III Ecoregion

Attribute:

Attribute_Label: LEVEL3NAME
Attribute_Definition: Name for Level III Ecoregion

Distribution_Information:

Resource_Description: Download Data
Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 87.130

Metadata_Reference_Information:

Metadata_Date: 20100312
Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: SRA/Raytheon Contractors to US EPA
Contact_Person: Colleen Burch Johnson

Contact_Address:

Address_Type: mailing and physical address
Address: c/o USEPA 200 SW 35th Street
City: Corvallis
State_or_Province: Oregon
Postal_Code: 97333
Country: USA

Contact_Voice_Telephone: (541) 754-4454
Contact_Electronic_Mail_Address: johnson.colleen@epa.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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