

Ecoregional Portfolio



Tags

The Nature Conservancy, Terrestrial Ecoregions, Major Habitat Types, Biogeographic Realms, TNC, World, Global

Summary

Developed originally by Olson, D. M. and E. Dinerstein (2002), Bailey (1995) and Environment Canada (Wiken, 1986), these data layers were modified by The Nature Conservancy (TNC) to be used in its Biodiversity Planning exercises in the process known as Ecoregional Assessments. Several Ecoregions were modified from the originals by TNC staff developing the aforementioned assessments. The modifications are based on ecological, bio-physical and political rationales; most changes are noted in the accompanying documentation (attributes). Ecoregions in Canada and Mexico were modified mainly at the border with US territory, where TNC modified-Bailey (1995) ecoregions crossed over the country boundaries and the Olson, D. M. and E. Dinerstein (2002) and (Wiken, 1986) were replaced where the TNC modified-Bailey (1995) overlaid them. This layer was split from the terrestrial ecoregional assessment layer in June 2008.

Description

Global Ecoregions, Major Habitat Types, Biogeographical Realms and The Nature Conservancy Terrestrial Assessment Units as of December 14, 2009

Credits

The Nature Conservancy

Use limitations

There are no access and use limitations for this item.

ArcGIS Metadata

Topics and Keywords

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS World, Global

THEME KEYWORDS The Nature Conservancy, Terrestrial Ecoregions, Major Habitat Types, Biogeographic Realms, TNC

Citation

TITLE TNC Terrestrial Ecoregions

PRESENTATION FORMATS digital map

OTHER CITATION DETAILS -Olson, D. M. and E. Dinerstein. 2002. The Global 200: Priority ecoregions for global conservation. (PDF file) Annals of the Missouri Botanical Garden 89:125-126. -The Nature Conservancy, USDA Forest Service and U.S. Geological Survey, based on Bailey, Robert G. 1995. Description of the ecoregions of the United States (2nd ed.). Misc. Pub. No. 1391, Map scale 1:7,500,000. USDA Forest Service. 108pp. -The Nature Conservancy (2003), based on Wiken, E.B. (compiler). 1986. Terrestrial ecozones of Canada. Ecological Land Classification Series No. 19.

Environment Canada, Hull, Que. 26 pp. + map.

Citation Contacts

RESPONSIBLE PARTY

ORGANIZATION'S NAME The Nature Conservancy

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME The Nature Conservancy

CONTACT'S ROLE publisher

CONTACT INFORMATION

ADDRESS

DELIVERY POINT Arlington, VA

Resource Details

DATASET LANGUAGES English (UNITED STATES)

STATUS under development

SPATIAL REPRESENTATION TYPE vector

SUPPLEMENTAL INFORMATION

Download this data, and a log of changes at

<http://conserveonline.org/workspaces/ecoregional.shapefile/>

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; ESRI ArcGIS 10.0.4.4000

CREDITS

The Nature Conservancy

ARCGIS ITEM PROPERTIES

* NAME Ecoregions

* LOCATION

* ACCESS PROTOCOL Local Area Network

Extents

EXTENT

DESCRIPTION

publication date

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -160.247080

* EAST LONGITUDE -52.617360

* NORTH LATITUDE 61.506520

* SOUTH LATITUDE 18.910750

* EXTENT CONTAINS THE RESOURCE Yes

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -160.247080

* EAST LONGITUDE -52.617360

* NORTH LATITUDE 61.506520

* SOUTH LATITUDE 18.910750

* EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

DATE AND TIME December, 2009

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE -160.247080
- * EAST LONGITUDE -52.617360
- * SOUTH LATITUDE 18.910750
- * NORTH LATITUDE 61.506520
- * EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT

INDIVIDUAL'S NAME David Smetana

ORGANIZATION'S NAME The Nature Conservancy

CONTACT'S POSITION Worldwide Office Conservation Data Node Manager

CONTACT'S ROLE point of contact

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Resource Maintenance

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

Resource Constraints

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS other restrictions

OTHER CONSTRAINTS

Access constraints: The Nature Conservancy reserves all rights in data provided. All data are provided as is. This is not a survey quality dataset. The Nature Conservancy makes no warranty as to the currency, completeness, accuracy or utility of any specific data. This disclaimer applies both to individual use of the data and aggregate use with other data. It is strongly recommended that careful attention be paid to the contents of the metadata file associated with these data.

LEGAL CONSTRAINTS

USE CONSTRAINTS other restrictions

OTHER CONSTRAINTS

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Spatial Reference

ARCGIS COORDINATE SYSTEM

- * TYPE Geographic
- * GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
- * COORDINATE REFERENCE DETAILS

GEOGRAPHIC COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 4326
X ORIGIN -400
Y ORIGIN -400
XY SCALE 999999999.99999988
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 8.98315284119521e-009
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LEFT LONGITUDE -180
WELL-KNOWN TEXT
GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4326]]

REFERENCE SYSTEM IDENTIFIER

VALUE 0

- * CODESPACE EPSG
- * VERSION 7.4.1

Spatial Data Properties

VECTOR

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME Ecoregions

- * OBJECT TYPE composite
- * OBJECT COUNT 76

ARCGIS FEATURE CLASS PROPERTIES

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polygon
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 76
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING FALSE

Distribution

DISTRIBUTOR

AVAILABLE FORMAT

- * NAME SDE Feature Class

ORDERING PROCESS

INSTRUCTIONS

<http://conserveonline.org/workspaces/ecoregional.shapefile/>

TRANSFER OPTIONS

ONLINE SOURCE

- * LOCATION Server=sdetest.tnc.org; Service=5151; User=era_steward; Version=SDE.DEFAULT
- * ACCESS PROTOCOL ArcSDE Connection
- * DESCRIPTION Downloadable Data

DISTRIBUTION FORMAT

- * NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT Ecoregions

- * TYPE Feature Class
- * ROW COUNT 76

FIELD OBJECTID

- * ALIAS OBJECTID
- * DATA TYPE OID
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Internal feature number.
- * DESCRIPTION SOURCE
ESRI
- * DESCRIPTION OF VALUES Sequential unique whole numbers that are automatically generated.

FIELD Shape

- * ALIAS Shape
- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Feature geometry.
- * DESCRIPTION SOURCE
ESRI
- * DESCRIPTION OF VALUES Coordinates defining the features.

FIELD ECO_ID_U

- * DATA TYPE Integer
- * WIDTH 4
- * ALIAS ECO_ID_U
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Unique Ecoregion ID
- * DESCRIPTION SOURCE
This field replaces ECO_CODE, which caused confusion as it did not change when MHT changed.

FIELD ECO_CODE

- * DATA TYPE String
- * WIDTH 16
- * ALIAS ECO_CODE
- * PRECISION 0
- * SCALE 0

* FIELD DESCRIPTION

Unique Ecoregion String Identifier

DESCRIPTION SOURCE

Code includes the original Realm, MHT and Ecoregion Number for each ecoregion. Replaced by ECO_ID_U as the primary key.

FIELD ECO_NAME

* DATA TYPE String

* WIDTH 100

* ALIAS ECO_NAME

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Name of the Ecoregion

* DESCRIPTION SOURCE

Every Ecoregion has a unique name, named by Olson, D. M. and E. Dinerstein (2002) , Wiken (1986) and The Nature Conservancy (2005)

FIELD ECO_NUM

* ALIAS ECO_NUM

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Unique Ecoregion Number Identifier

DESCRIPTION SOURCE

Every Ecoregion has a unique number, by Realm and MHT, based on Olson, D. M. and E. Dinerstein (2002) and The Nature Conservancy

FIELD ECODE_NAME

* ALIAS ECODE_NAME

* DATA TYPE String

* WIDTH 120

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Combination of the Eco_Code and Eco_name fields

FIELD CLS_CODE

* ALIAS CLS_CODE

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The identifier used by CLS for each ecoregion. This field will help CLS to stay current by allowing it to link to this data, which is regularly updated.

DESCRIPTION SOURCE

CLS (via Jen Johnson)

FIELD ECO_NOTES

* ALIAS ECO_NOTES

* DATA TYPE String

* WIDTH 250

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Comments on edits and changes to attributes and polygons for ecoregions.

FIELD WWF_REALM

- * ALIAS WWF_REALM
- * DATA TYPE String
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Biogeographical Realm abbreviations

DESCRIPTION SOURCE

Continental-scale biogeographic regions defined by differences in geologic and climatic history which contain distinct assemblages of plants and animals, particularly at higher taxonomic levels. The realms used are roughly based on Pielou's "biogeographic regions." (Pielou, E.C., 1979, Biogeography. Wiley, NY). The REALM item consists of a two letter code. Attributed by The Nature Conservancy (2005) for Canada and The United States, and by Olson, D. M. and E. Dinerstein (2002) for the rest of the Globe.

LIST OF VALUES

VALUE AA

DESCRIPTION Australasia

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

VALUE AN

DESCRIPTION Antarctic

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

VALUE AT

DESCRIPTION Afrotropic

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

VALUE IM

DESCRIPTION Indo-Malay

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

VALUE NA

DESCRIPTION Nearctic

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

VALUE NT

DESCRIPTION Neotropic

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

VALUE OC

DESCRIPTION Oceania

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

VALUE PA

DESCRIPTION Palearctic

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

FIELD WWF_REALM2

- * ALIAS WWF_REALM2
- * DATA TYPE String
- * WIDTH 15
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Biogeographical Realm names

DESCRIPTION SOURCE

Continental-scale biogeographic regions defined by differences in geologic and climatic history which contain distinct assemblages of plants and animals, particularly at higher taxonomic levels. The realms used are roughly based on Pielou's "biogeographic regions." (Pielou, E.C., 1979, Biogeography. Wiley, NY). The REALM item consists of a two letter code. Attributed by The Nature Conservancy (2005) for Canada and The United States, and by Olson, D. M. and E. Dinerstein (2002) for the rest of the Globe.

FIELD WWF_MHTNUM

- * ALIAS WWF_MHTNUM
- * DATA TYPE SmallInteger
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Major Habitat Type Number as defined by World Wildlife Fund (Olson, D. M. and E. Dinerstein, 2002)

DESCRIPTION SOURCE

Broad kinds of ecoregions that: a) Experience comparable climatic regimes; b) Have similar vegetation structure; c) Display similar spatial patterns of biodiversity; d) Contain flora and fauna with similar guild structures and life histories; e) Have similar minimum requirements and thresholds for maintaining certain biodiversity features; and f) Have similar sensitivities to human disturbance. Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

FIELD WWF_MHTNAM

- * ALIAS WWF_MHTNAM
- * DATA TYPE String
- * WIDTH 70
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Major Habitat Type Name as defined by World Wildlife Fund (Olson, D. M. and E. Dinerstein, 2002)

DESCRIPTION SOURCE

Broad kinds of ecoregions that: a) Experience comparable climatic regimes; b) Have similar vegetation structure; c) Display similar spatial patterns of biodiversity; d) Contain flora and fauna with similar guild structures and life histories; e) Have similar minimum requirements and thresholds for maintaining certain biodiversity features; and f) Have similar sensitivities to human disturbance. Olson, D. M. and E. Dinerstein (2002) - <http://worldwildlife.org/science/data/attributes.cfm>

FIELD RealmMHT

- * ALIAS REALMMHT
- * DATA TYPE String
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Combination of Realm and MHT into a single field, to make analysis easier

DESCRIPTION SOURCE

The Nature Conservancy (2007)

FIELD ER_UPDATE

- * ALIAS ER_UPDATE
- * DATA TYPE String
- * WIDTH 15
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Ecoregional boundary update status. This describes if the ecoregional boundary is original, a draft, or updated.

DESCRIPTION SOURCE

The Nature Conservancy (2007)

FIELD ER_DATE_U

- * ALIAS ER_DATE_U
- * DATA TYPE String
- * WIDTH 12
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Date the ecoregional boundary was last updated.

DESCRIPTION SOURCE

The Nature Conservancy (2007)

FIELD ER_RATION

- * ALIAS ER_RATION
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Description and ecological (or other) rationale for updates to the ecoregional boundary made by the assessment team, or by collaborating experts as part of the assessment process.

DESCRIPTION SOURCE

The Nature Conservancy (2007)

FIELD SOURCEDATA

- * ALIAS SOURCEDATA
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Source of ecoregion polygon

DESCRIPTION SOURCE

The Nature Conservancy (2007)

FIELD RollupSource

- * ALIAS RollupSource
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0

FIELD Shape_Length

- * ALIAS Shape_Length
- * DATA TYPE Double
- * WIDTH 8

- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Length of feature in internal units.
- * DESCRIPTION SOURCE
ESRI
- * DESCRIPTION OF VALUES Positive real numbers that are automatically generated.

FIELD Shape_Area

- * ALIAS Shape_Area
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Area of feature in internal units squared.
- * DESCRIPTION SOURCE
ESRI
- * DESCRIPTION OF VALUES Positive real numbers that are automatically generated.

FIELD ACRES

- * ALIAS ACRES
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

Metadata Details

METADATA LANGUAGE English (UNITED STATES)

* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

* LAST UPDATE 2014-01-24

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS 2011-10-27 11:46:04

LAST MODIFIED IN ARCGIS 2014-01-24 09:04:32

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2014-01-24 09:04:32

Metadata Contacts

METADATA CONTACT

INDIVIDUAL'S NAME David Smetana

ORGANIZATION'S NAME The Nature Conservancy

CONTACT'S POSITION Worldwide Office Conservation Data Node Manager

CONTACT'S ROLE point of contact

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COUNTRY US

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Thumbnail and Enclosures

ENCLOSURE

ENCLOSURE TYPE File

DESCRIPTION OF ENCLOSURE original metadata

ORIGINAL METADATA DOCUMENT, WHICH WAS TRANSLATED yes

ORIGINAL FILE NAME source_metadata.xml