National Land Cover Gap Analysis Project

Metadata also available as

Metadata:

Identification_Information:

Citation:
Citation_Information:
Originator: Gap Analysis Program
Publication_Date: February 2010
Title: National Land Cover Gap Analysis Project
Edition: Version 1
Geospatial_Data_Presentation_Form: remote-sensing image
Online_Linkage:
<ftp://ftp.gap.uidaho.edu/outgoing/National/National_landcover.zip>
Description:
Abstract:
This dataset combines the work of several different projects to create a seamless data set for the contiguous United States. Data from four regional Gap Analysis Projects and the LANDFIRE project were combined to make this dataset. In the Northwestern United States (Idaho, Oregon, Montana, Washington and Wyoming) data in this map came from the Northwest Gap Analysis Project. In the Southwestern United States (Colorado, Arizona, Nevada, New Mexico, and Utah) data used in this map came from the Southwest Gap Analysis Project. The data for Alabama, Florida, Georgia, Kentucky, North Carolina, South Carolina, Mississippi, Tennessee, and Virginia came from the Southeast Gap Analysis Project and the California data was generated by the updated California Gap land cover project. In areas of the county (central U.S., Northeast) that have not yet been covered by a regional Gap Analysis Project, data from the Landfire project was used. In 2009 Landfire data was combined by the Landscope project into one uniform coverage. This compiled data was the data pulled into this project.
Similarities in the methods used by these projects made possible the combining of the data they derived into one seamless coverage. They all used multi-season satellite imagery (Landsat ETM+) from 1999-2001 in conjunction with digital elevation model (DEM) derived datasets (e.g. elevation, landform) to model natural and semi-natural

vegetation. Vegetation classes were drawn from NatureServe's Ecological System Classification (Comer et al. 2003). Additionally, all of the projects included land use classes that were employed to describe areas where natural vegetation has been altered. In many areas of the country these classes were derived from the National Land Cover Dataset (NLCD). For the majority of classes and, in most areas of the country, a decision tree classifier was used to discriminate ecological system types. In some areas of the country, more manual techniques were used to discriminate small patch systems and systems not distinguishable through topography.
Online references
Northwest Gap Analysis Project <http://gap.uidaho.edu/index.php/gap-home/Northwest-GAP>
Southwest Gap Analysis Project- <http://earth.gis.usu.edu/swgap/>
Southeast Gap Analysis Project- <http://www.basic.ncsu.edu/segap/>
California Gap land cover project
<http://www.gap.uidaho.edu/Portal/California/CAReGAP.html>
LANDFIRE- <http://www.landfire.gov/>
Landscope- <http://www.landscope.org/>
NatureServe- <http://natureserve.org/>
National Land Cover Dataset- <http://www.epa.gov/mrlc/nlcd-2001.html>
Purpose:
The digital land cover dataset may be used for various purposes with user's discretion. Specifically, this dataset was created for regional terrestrial biodiversity assessment. These data are not intended to be used at scales larger than 1:100,000.
Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 1999
Ending_Date: 2001
Currentness_Reference: ground condition
Status:
Progress: In work
Maintenance_and_Update_Frequency: Irregular
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -131.720826
East_Bounding_Coordinate: -64.761500
North_Bounding_Coordinate: 52.496415
South_Bounding_Coordinate: 22.067063
Keywords:
Theme:
Theme_Keyword_Thesaurus: none
Theme_Keyword: land cover
Theme_Keyword: vegetation
Place:
Place_Keyword: Continental United States
Place_Keyword: Southeastern United States

Place_Keyword: Northwestern United States
Place_Keyword: Central United States
Place_Keyword: Northeastern United States
Place_Keyword: Southwestern United States
Access_Constraints: none
Use_Constraints:
Appropriate scale for these data is 1: 100,000 or smaller. The user assumes responsiblity when using this dataset.
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Anne Davidson
Contact_Organization: National Gap Analysis Program
Contact_Position: Spatial Ecoologist
Contact_Address:
Address_Type: mailing and physical address
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State_or_Province: Idaho
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Country: U. S.
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Contact_Electronic_Mail_Address: adavidson@uidaho.edu
Hours_of_Service: 8 a.m - 5 p.m. PST
Native_Data_Set_Environment:
Microsoft Windows Vista Version 6.1 (Build 7600) ; ESRI ArcCatalog 9.3.1.3000

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report:
Accuracy assessments have been conducted for part of the Northwestern United States and the Southwestern United States
Logical_Consistency_Report: Not applicable for raster data
Completeness_Report:
All cells within the continental United States heve been assigned an Ecological System or land use Value and description. Work is ongoing to improve country wide consistancy in the class assignment process.
Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator:
United States Geological Survey, EROS Data Center, National Elevation Dataset
Publication_Date: 1999
Title: 30 Meter Digital Elevation Model
Geospatial_Data_Presentation_Form: raster digital data

Online_Linkage: <http://ned.usgs.gov/>
Source_Information:
Source_Citation:
Citation_Information:
Originator:
United States Geological Survey, EROS Data Center, Multi-Resolution Land Characteristics Consortium
Publication_Date: 199-2001
Title: Landsat 7, ETM+ Imagery
Geospatial_Data_Presentation_Form: raster digital data
Other_Citation_Details:
Landsat 7 ETM+ Imagery provided for Spring, Summer and Fall dates between 1999 and 2001
Online_Linkage: <http://www.mrlc.gov/index.asp>
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 1999
Time_of_Day: 2001
Source_Currentness_Reference: ground condition
Source_Information:
Source_Citation:
Citation_Information:
Title: National Land Cover Dataset
Process_Step:

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Raster
Raster_Object_Information:
Raster_Object_Type: Pixel
Row_Count: 100657
Column_Count: 163330
Vertical_Count: 1

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Map_Projection:
Map_Projection_Name: Albers Conical Equal Area
Albers_Conical_Equal_Area:
Standard_Parallel: 29.500000
Standard_Parallel: 45.500000
Longitude_of_Central_Meridian: -96.000000
Latitude_of_Projection_Origin: 23.000000
False_Easting: 0.000000
False_Northing: 0.000000

Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: row and column
Coordinate_Representation:
Abscissa_Resolution: 30.000000
Ordinate_Resolution: 30.000000
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: gapnat_lndcov_0210.img.vat
Attribute:
Attribute_Label: OID
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: Value
Attribute_Definition:
Code used to identify Ecological System or land use class. Same as Level 3 class
Attribute:
Attribute_Label: Count
Attribute_Definition: Number of 30 m x 30 m pixels per class
Attribute:
Attribute_Label: Red
Attribute_Definition: Red color value
Attribute:
Attribute_Label: Green
Attribute_Definition: Green color value
Attribute:
Attribute_Label: Blue
Attribute_Definition: Blue color value
Attribute:
Attribute_Label: Level1
Attribute_Definition:
Value at the most general level of classification level 1. Level 1 contains 8 classes and generalizes to the level of vegetative physiognomy.
Attribute:
Attribute_Label: CN_Level1

Attribute_Definition: Description of Level 1 classification.
Attribute:
Attribute_Label: Level2
Attribute_Definition:
Value at the intermediate level of classification level 2. Level 2 contains 43 classes and incorporates information on elevation and climate.
Attribute:
Attribute_Label: CN_Level2
Attribute_Definition: Description of level 2 classes.
Attribute:
Attribute_Label: Level3
Attribute_Definition:
Value at the most detailed level of classification. Level 3 contains the full 583 Ecological systems and land use classes.
Attribute:
Attribute_Label: CN_Level3
Attribute_Definition: Description of level 3 classes.

Distribution_Information:
Distributor:
Contact_Information:
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Contact_Person: Anne Davidson
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Hours_of_Service: 8-5 PST
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.000

Metadata_Reference_Information:
Metadata_Date: 20100219
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: National Gap Analysis Program
Contact_Person: Anne Davidson
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State_or_Province: Idaho

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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
