ecomap5

Raster Dataset

Thumbnail Not Available

Tags

There are no tags for this item.

Summary

The Ecological Systems Classification of Texas project grew out of a recognized need to provide better land cover classification and mapping for the state in order to facilitate improved planning and management.

Several aspects of this effort set it apart from any large scale mapping ever done elsewhere in the United States. First, a 10 meter resolution map; second, roughly 10 times more land cover classes versus previous maps of similar type; finally, a modified Ecological Systems Classification that incorporates vegetation dynamics explicitly and therefore facilitates better ecological interpretations. To achieve these results, new remote sensing classification techniques were incorporated, and a variety of abiotic data was used to model final map units.

Description

Ecomap5 was derived from the Phase 1 map provided by the Texas Ecological Systems Project; a map that has spatial resolution useful at about 1:24,000 scale (a USGS 7.5’ quadrangle), and has a sufficient number of land cover classes (thematic resolution) to provide improved insights for planning and management at a sub-county, or large ownership, scale of resolution.

Credits

This project was designed as a team effort. Overall leadership is provided by the Texas Parks and Wildlife Department, particularly Duane German and Kim Ludeke, together with the Texas Natural Resources Information Service, particularly Jim Scott. Executive Director Carter Smith provided on-going encouragement and support. The Natural Resources Conservation Service provided staff time and access to digital soils data, including ecological site descriptions. The Missouri Resource Assessment Partnership, University of Missouri, provided remote sensing and ecological systems modeling and mapping expertise. We have only completed the first year of a five-year project, and many additional partners will participate.

Numerous Texas Parks and Wildlife Department staff have participated in this effort to date. On-going input has been provided by:

Kim Ludeke – TPWD GIS Lab Manager   
Duane German – Landscape Characterization Team Leader   
Amie Treuer-Kuehn – Plant Ecologist   
Wendy Connally – State Wildlife Grants Coordinator  
Jackie Poole - Botanist   
Jason Singhurst – Botanist2

Use limitations

There are no access and use limitations for this item.

Extent

West -98.021810 East -97.967523

North 29.957238 South 29.900314

Scale Range

There is no scale range for this item.

ArcGIS Metadata ▼►Topics and Keywords ▼►\* Content type  Downloadable Data

Hide Topics and Keywords ▲

Citation ▼►\* Title ecomap5

Presentation formats  \* digital map

Hide Citation ▲

Resource Details ▼►Dataset languages  \* English (UNITED STATES)

Spatial representation type  \* grid

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.1.1.3143

ArcGIS item properties

\* Name ecomap5

\* Location file://U:\ecomap5

\* Access protocol Local Area Network

Hide Resource Details ▲

Extents ▼►Extent

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -98.021810

\* East longitude -97.967523

\* North latitude 29.957238

\* South latitude 29.900314

\* Extent contains the resource Yes

Extent in the item's coordinate system

\* West longitude 1690697.551059

\* East longitude 1695817.551059

\* South latitude 7310708.127275

\* North latitude 7316938.127275

\* Extent contains the resource Yes

Hide Extents ▲

Spatial Reference ▼►ArcGIS coordinate system

\* Type Projected

\* Geographic coordinate reference GCS\_North\_American\_1983

\* Projection LUnits\_meters

\* Coordinate reference details

Projected coordinate system

X origin -17170300

Y origin -691300

XY scale 241217314.52469939

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.001

Z tolerance 0.001

M tolerance 0.001

High precision true

Well-known text PROJCS["LUnits\_meters",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Albers"],PARAMETER["false\_easting",1500000.0],PARAMETER["false\_northing",6000000.0],PARAMETER["central\_meridian",-100.0],PARAMETER["standard\_parallel\_1",27.5],PARAMETER["standard\_parallel\_2",35.0],PARAMETER["latitude\_of\_origin",18.0],UNIT["Meters",1.0]]

Reference system identifier

\* Value 0

Hide Spatial Reference ▲

Spatial Data Properties ▼►Georectified Grid  ▼►\* Number of dimensions 2

Axis dimensions properties

Dimension type  column (x-axis)

\* Dimension size 512

\* Resolution  10.000000 Meter

Axis dimensions properties

Dimension type  row (y-axis)

\* Dimension size 623

\* Resolution  10.000000 Meter

\* Cell geometry  area

\* Point in pixel  center

\* Transformation parameters are available Yes

\* Check points are available No

Corner points

\* Point 1690697.551059 7310708.127275

\* Point 1690697.551059 7316938.127275

\* Point 1695817.551059 7316938.127275

\* Point 1695817.551059 7310708.127275

\* Center point 1693257.551059 7313823.127275

Hide Georectified Grid ▲

ArcGIS Raster Properties  ▼►General Information

\* Pixel depth 8

\* Compression type RLE

\* Number of bands 1

\* Raster format GRID

\* Source type continuous

\* Pixel type unsigned integer

\* No data value 0

\* Has colormap No

\* Has pyramids No

Hide ArcGIS Raster Properties ▲

Hide Spatial Data Properties ▲

Spatial Data Content ▼►Image Description

\* Type of information  physical measurement

Band information

\* Description ecomap5

\* Maximum value 110.000000

\* Minimum value 1.000000

\* Number of bits per value 8

Hide Spatial Data Content ▲

Geoprocessing history ▼►Process

Date 2013-11-12 21:29:04

Tool location c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Spatial Analyst Tools.tbx\ExtractByMask

Command issued

ExtractByMask EcoMapFreeman1.tif Boundary\_Project2 U:\ecomap5

Include in lineage when exporting metadata No

Hide Geoprocessing history ▲

Distribution ▼►Distribution format

\* Name Raster Dataset

Hide Distribution ▲

Fields ▼►Details for object ecomap5.vat ▼►\* Type Table

\* Row count 27

Field Rowid ▼►\* Alias Rowid

\* 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.

Hide Field Rowid ▲

Field VALUE ▼►\* Alias VALUE

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

Hide Field VALUE ▲

Field OPACITY ▼►\* Alias OPACITY

\* Data type Double

\* Width 8

\* Precision 0

\* Scale 0

Hide Field OPACITY ▲

Field ECOLOGICAL ▼►\* Alias ECOLOGICAL

\* Data type String

\* Width 254

\* Precision 0

\* Scale 0

Hide Field ECOLOGICAL ▲

Field MAPPING\_SY ▼►\* Alias MAPPING\_SY

\* Data type String

\* Width 254

\* Precision 0

\* Scale 0

Hide Field MAPPING\_SY ▲

Field COMMON\_NAM ▼►\* Alias COMMON\_NAM

\* Data type String

\* Width 254

\* Precision 0

\* Scale 0

Hide Field COMMON\_NAM ▲

Field LANDCOVER ▼►\* Alias LANDCOVER

\* Data type String

\* Width 254

\* Precision 0

\* Scale 0

Hide Field LANDCOVER ▲

Field COUNT ▼►\* Alias COUNT

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

Hide Field COUNT ▲

Hide Details for object ecomap5.vat ▲

Hide Fields ▲

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 2013-11-20

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Created in ArcGIS for the item 2013-11-12 21:29:04

Last modified in ArcGIS for the item 2013-11-20 12:05:40

Automatic updates

Have been performed Yes

Last update 2013-11-20 12:05:40

Hide Metadata Details ▲

FGDC Metadata (read-only) ▼►Entities and Attributes ▼►Detailed Description

Entity Type

Entity Type Label ecomap5.vat

Attribute

Attribute Label Rowid

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

Attribute Label OPACITY

Attribute

Attribute Label ECOLOGICAL

Attribute

Attribute Label MAPPING\_SY

Attribute

Attribute Label COMMON\_NAM

Attribute

Attribute Label LANDCOVER

Attribute

Attribute Label COUNT