

Focal Areas of Conservation Significance



Tags

Resilience, Focal Areas, Area Name

Summary

Resilience concerns the ability of a living system to adjust to climate change, to moderate potential damages, to take advantage of opportunities, or to cope with consequences; in short, its capacity to adapt. In this project we aim to identify the most resilient examples of key geophysical settings (e.g. sand plains, granite mountains, limestone valleys, etc.) to provide conservationists with a nuanced picture of the places where conservation is most likely to succeed over centuries. The project had three parts: 1) identifying and mapping the geophysical settings, 2) developing a quantitative estimate of resilience for each setting based on landscape complexity and permeability, and 3) identifying key linkages that may be important in facilitating climate-induced regional movements. The final products include the identification of sites with high or low estimated resilience and overlays of these sites with the TNC portfolio of important biodiversity sites. The products were presented in an ecoregional context, highlighting sites with the highest estimated resilience for each setting within each ecoregion.

Description

Focal areas were created from above average 1,000 acre hexagons. Above average 1,000 acre hexagons were dissolved by adjacency and then manually split by landscape characteristics to create groups of hexagons in similar landscape context. These focal areas are created to facilitate landscape conservation and planning. For detailed field applications see pdf document [focalareafielddefinitions.pdf](#).

Credits

The Nature Conservancy, Eastern Division, 2012. For More information contact: Melissa_Clark@tnc.org

Use limitations

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. This data set must be cited on all electronic and hard copy products using the language of the Data Set Credit. The Nature Conservancy shall not be held liable for improper or incorrect use of the data described and/or contained herein. Any sale, distribution, loan, or offering for use of these digital data, in whole or in part, is prohibited without the approval of the Nature Conservancy. The use of these data to produce other GIS products and services with the intent to sell for a profit is prohibited without the written consent of the Nature Conservancy. All parties receiving these data must be informed of these restrictions. The Nature Conservancy shall be acknowledged as data contributors to any reports or other products derived from these data.

Extent

West -83.550344 East -58.771121
North 51.800121 South 33.304278

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata

Topics and Keywords

* CONTENT TYPE Downloadable Data

Citation

* TITLE TNC_Focal_Areas

PRESENTATION FORMATS * digital map

Resource Details

DATASET LANGUAGES * English (UNITED STATES)

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.1.1.3143

CREDITS

The Nature Conservancy, Eastern Division, 2012. For More information contact: Melissa_Clark@tnc.org

ARCGIS ITEM PROPERTIES

* NAME TNC_Focal_Areas

* SIZE 1.560

* LOCATION

* ACCESS PROTOCOL Local Area Network

Extents

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -83.550344

* EAST LONGITUDE -58.771121

* NORTH LATITUDE 51.800121

* SOUTH LATITUDE 33.304278

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 1100466.500000

* EAST LONGITUDE 2744905.000000

* SOUTH LATITUDE 1576746.625000

* NORTH LATITUDE 3284245.500000

* EXTENT CONTAINS THE RESOURCE Yes

Resource Constraints

CONSTRAINTS

LIMITATIONS OF USE

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Spatial Reference

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_Albers
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

X ORIGIN -16901100
Y ORIGIN -6972200
XY SCALE 266467840.99085236
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["NAD_1983_Albers",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"],PARAMET
ER["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian
",96.0],PARAMETER["Standard_Parallel_1",29.5],PARAMETER["Standard_Parallel_2",45.5],
PARAMETER["Latitude_Of_Origin",23.0],UNIT["Meter",1.0]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 0

Spatial Data Properties

VECTOR

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME TNC_Focal_Areas
* OBJECT TYPE composite
* OBJECT COUNT 1010

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME TNC_Focal_Areas
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 1010
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Distribution

DISTRIBUTION FORMAT

- * NAME Shapefile

TRANSFER OPTIONS

- * TRANSFER SIZE 1.560

Fields

DETAILS FOR OBJECT TNC_Focal_Areas

- * TYPE Feature Class
- * ROW COUNT 1010

FIELD FID

- * ALIAS FID
- * 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 OBJECTID

- * ALIAS OBJECTID
- * DATA TYPE Integer
- * WIDTH 9
- * PRECISION 9
- * 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 UID

- * ALIAS UID
- * DATA TYPE Integer
- * WIDTH 9

* PRECISION 9

* SCALE 0

FIELD DESCRIPTION

Focal area unique ID.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD Shape_Area

* ALIAS Shape_Area

* DATA TYPE Double

* WIDTH 19

* 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 Shape_Leng

* ALIAS Shape_Leng

* DATA TYPE Double

* WIDTH 19

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Length of feature.

DESCRIPTION SOURCE

ESRI

FIELD FA_NAME

* ALIAS FA_NAME

* DATA TYPE String

* WIDTH 100

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Focal area name.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD CAN

* ALIAS CAN

* DATA TYPE SmallInteger

* WIDTH 4

* PRECISION 4

* SCALE 0

FIELD DESCRIPTION

Flag for if the focal area is in Canada. 1 if in Canada: 0 if in the United States.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD PART_ECO

- * ALIAS PART_ECO
- * DATA TYPE SmallInteger
- * WIDTH 4
- * PRECISION 4
- * SCALE 0

FIELD DESCRIPTION

Flag for if the ecoregion is partially assessed ecoregions. Results in partial ecoregions may be biased and could be misleading. 1 if in partial ecoregion; 0 if in full ecoregion.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD CLASS

- * ALIAS CLASS
- * DATA TYPE SmallInteger
- * WIDTH 4
- * PRECISION 4
- * SCALE 0

FIELD DESCRIPTION

The dataset includes a two level prioritization based on whether the site meets both climate resilience criteria and contains significant current biodiversity targets. 1 if Priority Climate and Current Biodiversity Area; 2 if Priority Climate Area.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD LANDCOM

- * ALIAS LANDCOM
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Landscape complexity score stratified by setting and ecoregion.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD LOCCON

- * ALIAS LOCCON
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Local connectivity score stratified by setting and ecoregion.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD I_RESSCORE

- * ALIAS I_RESSCORE
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Integrated resilience score stratified by setting and ecoregion.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD FLOW_CON

- * ALIAS FLOW_CON
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Amount of concentrated regional flow in the focal area.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD PER_CONF

- * ALIAS PER_CONF
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Percent of site with confirmed Nature Conservancy portfolio targets.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD Matrix_For

- * ALIAS Matrix_For
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Acres of Nature Conservancy matrix forest in the focal area.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD Rare_Spec

- * ALIAS Rare_Spec
- * DATA TYPE Integer
- * WIDTH 9
- * PRECISION 9
- * SCALE 0

FIELD DESCRIPTION

Number of Nature Conservancy viable locations of a rare species population.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD Ex_Comm

- * ALIAS Ex_Comm
- * DATA TYPE Integer
- * WIDTH 9
- * PRECISION 9
- * SCALE 0

FIELD DESCRIPTION

Number of Nature Conservancy portfolio exemplary natural community.

DESCRIPTION SOURCE

The Nature Conservancy

FIELD OSI_Broad

- * ALIAS OSI_Broad
- * DATA TYPE String
- * WIDTH 10
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The OSI factors are included in the dataset under the heading "OSI broad" the included resilient areas particularly high in landscape complexity (L), diversity of settings (D), local connectedness (I), underrepresented settings (calcareous [C] or silt [S]), flow concentration areas (F). Many focal areas scored high in one or two factors but some scored above the mean for five factors at once. Their codes read "CLDFI" and "CSLDI." These are included in the GIS dataset in the field "OSI_Broad".

DESCRIPTION SOURCE

The Nature Conservancy

FIELD OSI_NARROW

- * ALIAS OSI_NARROW
- * DATA TYPE String
- * WIDTH 10
- * 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 2012-11-12

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2012-11-07 16:10:05
LAST MODIFIED IN ARCGIS FOR THE ITEM 2012-11-12 10:07:01

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2012-11-08 15:16:23

Thumbnail and Enclosures

THUMBNAIL

THUMBNAIL TYPE JPG

FGDC Metadata (read-only)