

From: [Turner, Ed](#)
To: [Betty Grizzle](#)
Subject: Snow Copeland Metadata from Nick Hardy
Date: Monday, February 6, 2017 4:06:40 PM
Attachments: [Snow Metadata.pdf](#)

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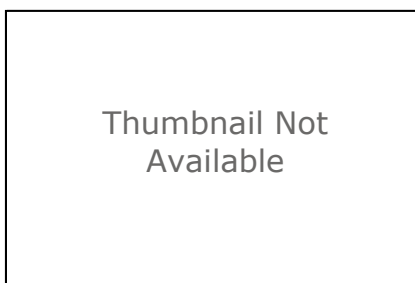
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Western Conterminous US Snow Coverage

Raster Dataset



Tags

There are no tags for this item.

Summary

North American snow coverage dataset, pixel value indicates number of years an area was covered by snow 2000-2006 during a three week period in late April, early May. Original dataset covered the whole of North America and was clipped to this extent.

Description

For further information on the development of this dataset see:

The bioclimatic envelope of the wolverine (*Gulo gulo*): do climatic constraints limit its geographic distribution?

Copeland JP et al 2010

Canadian Journal of Zoology 88 (3) pp233-246

Dataset was provided with this information-

Basically, the grid contains 8 attributes (0-7), which represent the number of years, out of 6 analyzed (2000-2006), that a particular pixel was primarily deep snow covered during a 3 week period in late April, early May. This snow distribution represents the wolverine's fundamental year-around niche, as described in the bioclimatic envelope paper, which Shawn or I can provide you. For the purpose of simply defining wolverine habitat, for Shawn's needs, it would probably be best to reclassify 1-6 as a single value rather than confusing the issue with the multiple attributes. Based on an analysis of Scandinavian wolverines it would appear that pixels classified as 4-6 represent better habitat than do the other classifications but as we did not have an adequately representative sample of N.A. wolverines we were not able to perform such an analysis. As such, considering year classes for N.A. is probably not justified.

Credits

Jeff Copeland

Use limitations

None

Extent

West -127.114799 **East** -99.831941

North 54.796723 **South** 29.327402

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 Western Conterminous US Snow Coverage

PRESENTATION FORMATS digital map

Hide Citation ▲

Resource Details ►

DATASET LANGUAGES English ()

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE grid

PROCESSING ENVIRONMENT Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcGIS 10.0.2.3200

CREDITS

Jeff Copeland

ARCGIS ITEM PROPERTIES

* NAME snow_w_c_us

* LOCATION

file:///S:/stem/edstemp/American_wolverine/FWS_Data/Nick_Hardy_Work/snow/snow_w_c_us

* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

WEST LONGITUDE -127.114799

EAST LONGITUDE -99.831941

NORTH LATITUDE 54.796723

SOUTH LATITUDE 29.327402

EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -127.114799
 * EAST LONGITUDE -99.831941
 * SOUTH LATITUDE 29.327402
 * NORTH LATITUDE 54.796723
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Nick Hardy
 ORGANIZATION'S NAME USFWS IFWO
 CONTACT'S POSITION GIS Analyst
 CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

ADDRESS
 E-MAIL ADDRESS nick_hardy@fws.gov

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

None

[Hide Resource Constraints ▲](#)

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 11258999068426.238
 Z ORIGIN -100000
 Z SCALE 10000
 M ORIGIN -100000
 M SCALE 10000
 XY TOLERANCE 8.983152841195215e-009

Z TOLERANCE 0.001
 M TOLERANCE 0.001
 HIGH PRECISION true
 LEFT LONGITUDE -180
 LATEST WELL-KNOWN IDENTIFIER 4326
 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

Hide Spatial Reference ▲

Spatial Data Properties ►

GEORECTIFIED GRID ►

NUMBER OF DIMENSIONS 2

AXIS DIMENSIONS PROPERTIES

DIMENSION TYPE column (x-axis)
 DIMENSION SIZE 6153
 RESOLUTION 0.004434 Degree

AXIS DIMENSIONS PROPERTIES

DIMENSION TYPE row (y-axis)
 DIMENSION SIZE 5744
 RESOLUTION 0.004434 Degree

* CELL GEOMETRY area
 * POINT IN PIXEL center

TRANSFORMATION PARAMETERS ARE AVAILABLE Yes

CHECK POINTS ARE AVAILABLE No

CORNER POINTS

POINT -127.114799 29.327402
 POINT -127.114799 54.796723
 POINT -99.831941 54.796723
 POINT -99.831941 29.327402

CENTER POINT -113.473370 42.062062

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 255

- * HAS COLORMAP No
- * HAS PYRAMIDS Yes

[Hide ArcGIS Raster Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Spatial Data Content ►

IMAGE DESCRIPTION

- * TYPE OF INFORMATION physical measurement

BAND INFORMATION

DESCRIPTION Band_1
 MAXIMUM VALUE 7.000000
 MINIMUM VALUE 0.000000
 UNITS
 SYMBOL Degree
 NUMBER OF BITS PER VALUE 8

[Hide Spatial Data Content ▲](#)

Distribution ►

DISTRIBUTION FORMAT

NAME Raster Dataset

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT snow_w_c_us.vat ►

- * TYPE Table
- * ROW COUNT 8

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 Count ►

* ALIAS COUNT
 * DATA TYPE Integer
 * WIDTH 4
 * PRECISION 0
 * SCALE 0

[Hide Field Count ▲](#)

[Hide Details for object snow_w_c_us.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 2011-12-14

ARCGIS METADATA PROPERTIES
 METADATA FORMAT ESRI-ISO

LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-02-02 13:19:03

AUTOMATIC UPDATES
 LAST UPDATE 2017-02-02 13:19:03

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT
 INDIVIDUAL'S NAME Nick Hardy
 ORGANIZATION'S NAME USFWS IFWO
 CONTACT'S POSITION GIS Analyst
 CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

ADDRESS
 E-MAIL ADDRESS nick_hardy@fws.gov

[Hide Contact information ▲](#)

[Hide Metadata Contacts](#) ▲

FGDC Metadata (read-only) ▼