

Bald Eagle Potential Habitat, December 2021 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Bald Eagle, *Haliaeetus leucocephalus*, Hali_leuc, bird, Terrestrial, GIS based model, Delisted due to Recovery, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in November 2021 as part of the Project ATLAS initiative at NCDOT to support the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit with project delivery in the development phase.

The Bald Eagle Potential Habitat layer highlights forested areas within 1 mile of water bodies that could be potential nesting/foraging sites and also highlights the potential foraging/fishing water bodies in an NRTR study area. This layer can be useful when looking at habitat for bald eagle during NRTR investigations. This layer compiles terrestrial and aquatic habitat areas used by the bald eagle which are comprised of open waters (lakes, ponds, rivers, and streams) for foraging and forested areas used for nesting for the entire state of North Carolina.

This dataset supports the production of the Natural Resources Technical Report (NRTR). This dataset also contains information that may assist biologists in preparing background information for field surveys, in order to address protected species for Threatened & Endangered Species Survey Reports, and/or Biological Assessments.

Description

The Bald Eagle Potential Habitat dataset is a polygon layer depicting areas of potential habitat locations for Bald Eagle in NC counties.

One of the largest raptors in North America, the bald eagle (*Haliaeetus leucocephalus*) weighs 8 to 13 pounds; the female is larger than the male. The wingspan may be 7 or 8 feet across, and the bird's body can stretch 3 feet from beak to tail. Juveniles are uniformly dark brown or mottled, with dark beaks, talons and eyes. In flight, the underside of the juvenile's wings may be streaked or mottled with white feathers. The bald eagle isn't "bald"; its name comes from the white feathers over the entire head. After four to five years, the birds achieve full adult plumage and coloring: a brilliant white head, neck and tail; bright yellow beak and feet; and pale yellow eyes. Bald eagles hold their wings flat when soaring high in the sky, unlike vultures and other large birds whose wings make a slight vee. The bald eagle prefers habitat near lakes, large rivers, and shorelines of sounds and bays. The bird requires tall, isolated trees for perching and nesting. Its large wings are adapted for catching late-morning and midday thermal updrafts, which give a high-altitude vantage point for seeking out and scavenging fish and other foods. Opportunistic by nature, the eagle is fond of stealing food from ospreys and other birds, and it scavenges the shoreline for dead or dying fish, as well as plucking them live from the water. In winter, when food is scarce, bald eagles consume a wider variety of prey, including water birds, rabbits and carrion. The bald eagle needs a tall, living tree for its huge nest, preferably a tree with a stout vee or several branches making a sturdy crotch. Nests are up to 8 feet wide and 20 feet deep, made of sticks and lined with grasses. Pairs often return and layer new nest material over the old from year to year, with the nest growing in size over time.

Datasets developed under Project ATLAS do not replace any NRTR work for future projects and may not be used as a replacement for site visits / field surveys by qualified professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Credits

The Environmental Analysis Unit (EAU) Mitigation and Modeling Unit within NCDOT was tasked to create this dataset. This dataset supports the production of the Natural Resources Technical Report (NRTR). Annual maintenance of this dataset is handled by the EAU.

Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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Extent

West -84.416719 **East** -75.281752
North 36.626918 **South** 33.669859

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:625,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE biota, geoscientificInformation, inlandWaters, location, transportation, environment

* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ►

TITLE User
CREATION DATE 2021-11-30 00:00:00
PUBLICATION DATE 2021-12-29 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Bald Eagle, Haliaeetus leucocephalus, Hali_leuc, bird, Terrestrial, GIS based model, Delisted due to Recovery, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ►

TITLE User
CREATION DATE 2021-11-30 00:00:00

PUBLICATION DATE 2021-12-29 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Bald Eagle Potential Habitat, December 2021 - NC Department of Transportation

CREATION DATE 2021-11-30 00:00:00

PUBLICATION DATE 2021-12-29 00:00:00

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS ATLAS@ncdot.gov

HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

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CONTACT'S ROLE originator

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RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

The Environmental Analysis Unit (EAU) Mitigation and Modeling Unit within NCDOT was tasked to create this dataset. This dataset supports the production of the Natural Resources Technical Report (NRTR). Annual maintenance of this dataset is handled by the EAU.

Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

Data collection is complete.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.422111

EAST LONGITUDE -75.416034

SOUTH LATITUDE 33.730557

NORTH LATITUDE 36.617257

EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

BEGINNING DATE 2021-11-30 00:00:00

ENDING DATE 2021-11-30 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.416719

* EAST LONGITUDE -75.281752

* NORTH LATITUDE 36.626918

* SOUTH LATITUDE 33.669859

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 408611.552622

* EAST LONGITUDE 3091817.481475

* SOUTH LATITUDE 12771.336529

* NORTH LATITUDE 1047143.608988

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ►

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[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

Maintenance of this dataset is handled by the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit. Updates for this layer should occur when the NLCD is updated or ATLAS Open Water Phase 1 is updated.

Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE originator

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[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Projected

* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983

* PROJECTION NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719

X ORIGIN -121841900

Y ORIGIN -93659000

XY SCALE 3048.0060960121918

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.00328083333333333331

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 2264

WELL-KNOWN TEXT

PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_19

83",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2264]]

REFERENCE SYSTEM IDENTIFIER

VALUE 2264
* CODESPACE EPSG
* VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME BaldEaglePotentialHabitat____
* OBJECT TYPE composite
* OBJECT COUNT 284308

[Hide Vector ▲](#)

ARCgis FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BaldEaglePotentialHabitat____
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 284308
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - COMPLETENESS OMISSION ►

MEASURE DESCRIPTION

After processing, the dataset is checked for drawing display and number of records and file sizes compared with source materials.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**
RESULT EXPLANATION
Pass

PRODUCT SPECIFICATION ▶

TITLE **NCDOT Geospatial Data Specifications**
CREATION DATE **2021-11-30 00:00:00**
PUBLICATION DATE **2021-12-29 00:00:00**

Hide Product specification ▲

Hide Data quality report - Completeness omission ▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶

MEASURE DESCRIPTION

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**
RESULT EXPLANATION
Pass

PRODUCT SPECIFICATION ▶

TITLE **NCDOT Geospatial Data Specifications**
CREATION DATE **2021-11-30 00:00:00**
PUBLICATION DATE **2021-12-29 00:00:00**

Hide Product specification ▲

Hide Data quality report - Conceptual consistency ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

QC was checked by manually zooming around in GIS to check for accuracy, and also showing outputs to ATLAS T&E team during a couple weekly calls. No official field reviews or desktops were requested for this model.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**
RESULT EXPLANATION
Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2021-11-30 00:00:00

PUBLICATION DATE 2021-12-29 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ▶

LINEAGE STATEMENT

Input Base Layers used to make this layer were:

- 2019 NCLD
- ATLAS Open Water Phase I V 20200303
- North Carolina County Boundary

Forested areas within 1 mile of water bodies were computed to find nesting and forested sites.

PROCESS STEP ▶

DESCRIPTION

Summary of model steps.

- All bodies of water greater than 2.0 acres were selected as potential habitats
- Deciduous Forest, Evergreen Forest, Mixed Forest and Woody Wetlands within a mile buffer of selected waterbodies were selected as potential Bald Eagle nesting/foraging habitats.
- The combination of the NLCD and body of water layer was considered Potential Bald Eagle Habitat

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-6136

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

DESCRIPTION

Data was reviewed in ESRI's Data Reviewer tool to verify geometry.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

DESCRIPTION

Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE distributor

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

TYPE

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.5

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [BaldEaglePotentialHabitat___](#) ►

* TYPE Feature Class

* ROW COUNT 284308

DEFINITION

Potential habitat for Bald Eagle in North Carolina

DEFINITION SOURCE

NCDOT

FIELD [OBJECTID](#) ►

* 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.

Hide Field OBJECTID ▲

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.

Hide Field SHAPE ▲

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.

Hide Field SHAPE_Area ▲

FIELD SciName ►

- * ALIAS ScientificName
- * DATA TYPE String
- * WIDTH 30
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION
Scientific Name

DESCRIPTION SOURCE
NCDOT

Hide Field SciName ▲

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.

Hide Field Shape_Length ▲

FIELD ComName ►

- * ALIAS CommonName
- * DATA TYPE String
- * WIDTH 30
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION
Common Name

DESCRIPTION SOURCE
NCDOT

[Hide Field ComName ▲](#)

[Hide Details for object BaldEaglePotentialHabitat____ ▲](#)

[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 2024-01-16

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE ISO 19139 Metadata Implementation Specification
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2024-02-01 14:11:26
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-16 11:50:43

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-16 11:50:43

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE point of contact

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[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS

Annual maintenance of this dataset is handled by the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

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[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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