

USFWS Species Consultation Range North Carolina Boundaries, November 2022 - NC Department of Transportation

Geodatabase Feature Class



Tags IPaC, NRTR, AOI, CR, Area of Influence, Current Range, Information for Planning and Consultation, USFWS, Threatened Species, Endangered Species, Section 7 Consultation, Transportation, NCDOT, biota, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in April 2022 and updated in November 2022 as part of the Project ATLAS initiative at NCDOT to support the Environmental Analysis Unit (EAU) with project delivery in the development phase. This dataset supports the production of the Natural Resources Technical Report (NRTR).

This layer displays either county boundary polygons or species' range boundaries set by the US Fish and Wildlife Services (USFWS) for federally listed species in the state of North Carolina. Most species' USFWS Current Ranges are the same as the USFWS consultation range or known as the Area of Influence (AOI). These county boundary polygons are utilized to easily assess which critical habitat species are located within each county.

Description

The IPaC (Information for Planning and Consultation) is a project planning tool which streamlines the USFWS environmental review process. This IPaC layer contains county boundaries within the state of NC. IPaC can be used to identify project location and receive an official species list of T&E species that should be considered when evaluating the potential impacts of a project.

The USFWS current range is the general geographic area where we know or suspect that a species currently occurs. Current range can include areas that have suitable habitat that have not been surveyed for presence of the species but are within the range of the species and are considered by experts likely to be occupied during all or part of the annual cycle or life cycle of the species. However, it is not limited to locations for which there are data on species known occurrence. Mapped current range can reflect species occurrence where other supporting evidence indicates that the species has a moderate to high probability of being present. Current range includes seasonally used areas as well as areas used year-round. The time frame covered by the term "current" varies by species. As a starting point, 'current' starts in 1972.

USFWS Area of Influence (AOI) definition - Under Section 7 of the Endangered Species Act of 1973, as amended, action agencies consult with the Service if their actions "may affect" listed species or designated critical habitat. The first step for the action agency in determining if consultation is appropriate is to determine if the species may be present in the action area, remembering that the "action area" as defined by the Act may be larger than the actual "project area." With this in mind, in order for the IPaC system to provide accurate species lists, the Service is developing "Areas of Influence." These ranges do not necessarily identify only where the species is present, but rather, they identify the area within which any project should consider potential effects to the listed species. This will typically result in Areas of Influence encompassing larger areas than simply where the species is known to exist. While individual Service field offices may ultimately determine that Section 7 consultation is not appropriate based on the specifics of a project, it is

appropriate to consider the potential effects to the species. Used in IPaC to determine a species list for Section 7.

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 licensed 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). Quarterly 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 -84.422109

East -75.352278

North 36.617254

South 33.639214

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

Topics and Keywords

Themes or categories of the resource Biota, Boundaries, Location, Planning & Cadastral, Transportation, Environment

Content type Downloadable Data

Export to FGDC CSDGM XML format as Resource Description No

Theme keywords IPaC, NRTR, AOI, CR, Area of Influence, Current Range, Information for Planning and Consultation, USFWS, Threatened Species, Endangered Species, Section 7 Consultation, Transportation, NCDOT, biota, Environment, Location, North Carolina, ATLAS

Thesaurus

Title User

Creation date 2022-11-21 00:00:00

Publication date 2022-12-01 00:00:00

Place keywords North Carolina

Thesaurus

Title User

Creation date 2022-11-21 00:00:00
Publication date 2022-12-01 00:00:00

Citation

Title USFWS Species Consultation Range North Carolina Boundaries, November 2022 - NC Department of Transportation

Creation date 2022-11-21 00:00:00
Publication date 2022-12-01 00:00:00

Presentation formats digital map
FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - resource provider

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
Contact's position Environmental Program Consultant
Contact information

Phone

Voice 919-707-6136

Address

Type

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

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.

Responsible party - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
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Address

Type**Delivery point** 4101 Capital Boulevard**City** Raleigh**Administrative area** NC**Postal code** 27604**Country** US**e-mail address** ATLAS@ncdot.gov**Hours of service**

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Responsible party - originator**Organization's name** North Carolina Department of Transportation - EAU Mitigation and Modeling Unit**Contact's position** Environmental Program Consultant**Contact information****Phone****Voice** 919-707-6136**Address****Type****Delivery point** 4101 Capital Boulevard**City** Raleigh**Administrative area** NC**Postal code** 27604**Country** US**e-mail address** ATLAS@ncdot.gov**Hours of service**

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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

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Extents

Extent

Description

Data collection is complete.

Geographic extent

Bounding rectangle

West longitude -84.422109

East longitude -75.416032

South latitude 33.730554

North latitude 36.617254

Extent contains the resource Yes

Temporal extent

Beginning date 2022-04-25 00:00:00

Ending date 2022-04-25 00:00:00

Extent

Geographic extent

Bounding rectangle

Extent type Extent used for searching

West longitude -84.422109

East longitude -75.352278

North latitude 36.617254

South latitude 33.639214

Extent contains the resource Yes

Extent in the item's coordinate system

westBL 406832.656245

eastBL 3071218.884877

southBL 1695.034534

northBL 1043624.438204

exTypeCode Yes

Resource Points of Contact

Point of contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

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Voice 919-707-6136

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Resource Maintenance

Resource maintenance

Update frequency quarterly

Scope of the updates dataset

Other maintenance requirements

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.

Maintenance contact - point of contact

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Contact's position Environmental Program Consultant

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Resource Constraints

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

Classification system None

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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

ProjectedCoordinateSystem

WKID 102719
XOrigin -121841900
YOrigin -93659000
XYScale 3048.0060960121918
ZOrigin -100000
ZScale 10000
MOrigin -100000
MScale 10000
XYTolerance 0.0032808333333333331
ZTolerance 0.001
MTolerance 0.001
HighPrecision true
LatestWKID 2264
WKT
PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["79.0"],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666667],

Reference system identifier

Value 2264
Codespace EPSG
Version 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only
Geometric objects
Feature class name IPACRanges
Object type composite
Object count 67

ArcGIS Feature Class Properties

Feature class name IPACRanges
Feature type Simple
Geometry type Polygon
Has topology FALSE
Feature count 67
Spatial index TRUE
Linear referencing FALSE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Completeness omission

Data quality measure reference

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 2019-01-01 00:00:00

Publication date 2019-08-28 00:00:00

Data quality report - Conceptual consistency

Data quality measure reference

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 2019-01-01 00:00:00

Publication date 2019-08-28 00:00:00

Data quality report - Quantitative attribute accuracy

Data quality measure reference

Measure description

Geometry checks were conducted using ESRI's Data Reviewer tool.

Conformance test results

Test passed Yes

Result explanation

Pass

Product specification

Title NCDOT Geospatial Data Specifications
Creation date 2019-01-01 00:00:00
Publication date 2019-08-28 00:00:00

Lineage

Lineage statement

Two datasets were accessed to create a range record for each threatened and endangered species in North Carolina that best represents the USFWS Section 7 Area of Influence (AOI).

-ECOS IPAC county pages for all 100 North Carolina counties (April 25, 2022)

<https://ipac.ecosphere.fws.gov/>

-USFWS Current Range (CR) file available to the public (April 25, 2022)

https://ecos.fws.gov/docs/species/shapefiles/usfws_complete_species_current_range.zip

Update Nov 2022:

Overall Species Updates to the file this quarter:

Littlewing pearlymussel – changed to a basin area and reduced in size.

Carolina heelsplitter – changed from county boundaries to basins. Reduction in area. **

Small-anthered bittercress – reduced area and now includes the basin upper NE area of Surry county. **

Golden sedge, app elktoe, spotfin chub, App elktoe has small areas removed that were outside NC.

Tricolored bat – added as a Proposed Endangered (PE) species – the range is the entire state. Moratoria and survey windows left blank. Ask BSG if we want to assign a survey window similar to other bats.

NLEB – reduced numerous counties and reflects IPAC areas and not NCDOTs structures checks for Div. 1-8.

Wood stork – reduced areas to buffered occurrences (as of 10/27/2022).

Sensitive joint-vetch – Craven County removed from the range. Not showing up on the IPAC output or range map.

**

Virginia spiraea – In NC, USFWS has based the range on stream buffered areas. **

Process step

Description

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

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address ATLAS@ncdot.gov

Hours of service

9:00am – 5:00pm Monday - Friday

Contact instructions

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Process step

Description

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

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

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Process step

Description

Per communication in April 2022 with Matthew Moskwik, USFWS Federal species modeler with the OneRange Project, most species CR will eventually equal the AOI. There will be a few excerpts to this rule.

When AOI is equal to CR, per USFWS West communication, the current range in the USFWS current range file was used.

For aquatic species, the range by basin in the current range shapefile was used and is representative of the species' AOI. All high elevation finer scale models and finer scale models for other species from the current range shapefile were used.

For all other species, county boundaries from the current range file were compared with the ECOS IPAC county

lists and best judgements were used.

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

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Distribution

Distributor

Contact information - distributor

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

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Distribution format

Name File Geodatabase Feature Class

Version 10.5

Fields

Details for object IPACRanges

Type Feature Class

Row count 67

Definition

USFWS species' habitat range located within NC.

Definition source

NCDOT

Field OBJECTID

Alias OBJECTID

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 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 ComName

Alias Commonname

Data type String

Width 50

Precision 0

Scale 0

Field description

Species common name

Description source

NCDOT

Field SciName

Alias ScientificName

Data type String

Width 50

Precision 0

Scale 0

Field description

Species scientific name

Description source

NCDOT

Field Status

Alias Status

Data type String

Width 50

Precision 0

Scale 0

Field description

USFWS Listing status

Description source

NCDOT

List of values

Value Endangered

Description Endangered

Enumerated domain value definition source NCDOT
Value Proposed Threatened
Description Proposed Threatened
Enumerated domain value definition source NCDOT
Value Similarity of Appearance (Threatened)
Description Similarity of Appearance (Threatened)
Enumerated domain value definition source NCDOT
Value Threatened
Description Threatened
Enumerated domain value definition source NCDOT
Value Under Review
Description Under Review
Enumerated domain value definition source NCDOT

Field SurveyWind

Alias SurveyWindow
Data type String
Width 254
Precision 0
Scale 0
Field description
Optimal Survey Window

Description source
NCDOT

Field MoratorYN

Alias MoratoriumYN
Data type String
Width 20
Precision 0
Scale 0
Field description
Is construction moratoria in place for listed species?

Description source
NCDOT

List of values

Value Yes
Description Yes Moratorium is in place
Enumerated domain value definition source NCDOT
Value No
Description No Moratorium is in place
Enumerated domain value definition source NCDOT

Field StatusAbbv

Alias StatusAbbreviation

Data type String

Width 20

Precision 0

Scale 0

Field description

USFWS Listing Status Abbreviation

Description source

NCDOT

Field Moratoria

Alias ConstMoratoria

Data type String

Width 254

Precision 0

Scale 0

Field description

Moratoria note for species

Description source

NCDOT

Field Notes

Alias Notes

Data type String

Width 254

Precision 0

Scale 0

Field description

Other important species notes

Description source

NCDOT

Field ProgramYN

Alias ProgrammaticAgreeYN

Data type String

Width 20

Precision 0

Scale 0

Field description

Is Programmatic in place with USFWS

Description source

NCDOT

List of values

Value Yes

Description Programmatic in place

Enumerated domain value definition source NCDOT

Value No

Description Programmatic not in place

Enumerated domain value definition source NCDOT

Field NHPTaxa

Alias NHPTaxaGroup

Data type String

Width 50

Precision 0

Scale 0

Field description

Natural Heritage Program taxa group

Description source

NCDOT

Field Agency

Alias Agency

Data type String

Width 100

Precision 0

Scale 0

Field description

Agencies with jurisdiction over species

Description source

NCDOT

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.

Field RStatement

Alias RiskStatement

Data type String

Width 5

Precision 0

Scale 0

Field description

Risk Statement

Description source

NCDOT

List of values

Value 1

Description High Risk - If the following species are already known to occur within the project study area, or are found on this project through field surveys or critical habitat has been identified, extensive coordination with USFWS will be required potentially including a BO and may have significant affects to scope, schedule and/or budget.

Enumerated domain value definition source NCDOT

Value 2

Description Low Risk - If the following species are found on this project through field surveys, coordination with USFWS will likely be required and may affect scope, schedule and/or budget.

Enumerated domain value definition source NCDOT

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.

Field ProgAgree

Alias ProgrammaticAgreement

Data type String

Width 150

Precision 0

Scale 0

Field Edited

Alias EditedDate

Data type Date

Width 8

Precision 0

Scale 0

Field description

Last Edited date

Description source

NCDOT

Field CntyBased

Alias CountyBased

Data type String

Width 5

Precision 0

Scale 0

Field description

Is Consultation Range County boundary based?

Description source

NCDOT

List of values

Value Y

Description Consultation Range County boundary based

Enumerated domain value definition source NCDOT

Value N

Description Consultation Range not County boundary based

Enumerated domain value definition source NCDOT

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 2022-12-07

ArcGIS metadata properties

Metadata format ArcGIS 1.0
Standard or profile used to edit metadata ISO19139
Metadata style ISO 19139 Metadata Implementation Specification
Created in ArcGIS for the item 2026-08-26 14:37:59
Last modified in ArcGIS for the item 2022-12-07 12:13:42

Automatic updates

Have been performed Yes
Last update 2022-12-07 12:13:42

Item location history

Item copied or moved 2022-03-29 15:41:11

From

\\cltsmain\GIS_DATA\GIS\Projects\3322_NCDOT\10077103_ModelingAssistance\7.2_Work_In_Progress\spatial\ECOSpecies Data\Consultation_Range_WIP\Combined\USFWS_Species_Consultation_Range_All_20220223

To

\\cltsmain\GIS_DATA\GIS\Projects\3322_NCDOT\10077103_ModelingAssistance\7.2_Work_In_Progress\spatial\ECOSpecies Data\Consultation_Range_WIP\Combined\USFWS_Species_Consultation_Range_All_20220223Copy

Metadata Contacts

Metadata contact - point of contact

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Contact's position Environmental Program Consultant
Contact information

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Voice 919-707-6136

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Metadata Maintenance

Maintenance

Update frequency as needed

Other maintenance requirements

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Metadata Constraints

Security constraints

Classification unclassified

Classification system None

Limitations of use

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file