

Rufa Red Knot Potential Habitat, November 2023 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Rufa red knot, *Calidris canutus rufa*, bird, threatened, GIS-based model, expert model, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in July 2023 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.

This model identifies year-round potential suitable habitat for Rufa Red Knot. Model output is binary, and includes the USFWS species range, excluding historic counties. The species model range is split between "High" and "Low" potential habitat. "High potential habitat" represents GIS based layer areas deemed suitable habitat, and "Low potential habitat" representing areas identified as areas deemed low quality or non-habitat.

The Optimal survey window for Rufa Red Knot is: Year Round.

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 Rufa Red Knot Potential Habitat dataset is a polygon layer depicting high and low potential habitat locations for rufa red knot in NC counties that have a USFWS "current" status listing.

The Rufa Red Knot (*Calidris canutus rufa*) is one of the six recognized subspecies of red knots and is the only subspecies that routinely travels along the Atlantic Coast of the United States during spring and fall migrations. It is known to winter in North Carolina and to stop over during migration. Habitats used by red knots in migration and wintering areas are similar in character: coastal marine and estuarine habitats with large areas of exposed intertidal sediments. In North America, red knots are commonly found along sandy, gravel, or cobble beaches, tidal mudflats, salt marshes, shallow coastal impoundments and lagoons, and peat banks. Ephemeral features such as sand spits, islets, shoals, and sandbars, often associated with inlets can be important habitat for roosting.

Additional Species Information

There are 14 occurrences of Rufa Red Knot in the NHP Data Explorer as of June 2022.

County Information

- NHP listed counties: New Hanover and Onslow wintering habitat only.
- FWS listed counties as 'current': Beaufort, Bertie, Brunswick, Camden, Carteret, Chowan, Craven, Currituck, Dare, Hyde, New Hanover, Onslow, Pamlico, Pasquotank, Pender, Perquimans, Tyrell, Washington

- Additions proposed by reviewers: NA

For more information please click here <https://xfer.services.ncdot.gov/gisdot/Metadata/Atlas/TechDocs/>

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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

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Extent

West -78.652304 **East** -75.059146
North 36.589758 **South** 33.546120

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 2023-07-05 00:00:00
PUBLICATION DATE 2023-11-10 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS rufa red knot, Calidris canutus rufa, bird, threatened, GIS-based model, expert model, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ▶

TITLE User

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[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE Rufa Red Knot Potential Habitat, November 2023 - NC Department of Transportation

CREATION DATE 2023-07-05 00:00:00

PUBLICATION DATE 2023-11-10 00:00:00

PRESENTATION FORMATS digital map

[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

TYPE

DELIVERY POINT 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 ▲](#)

RESPONSIBLE PARTY

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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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

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -78.6513
EAST LONGITUDE -75.417239
SOUTH LATITUDE 33.795668
NORTH LATITUDE 36.589755
EXTENT CONTAINS THE RESOURCE Yes

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 2023-07-05 00:00:00
ENDING DATE 2023-07-05 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -78.652304
* EAST LONGITUDE -75.059146
* NORTH LATITUDE 36.589758
* SOUTH LATITUDE 33.546120
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 2105899.336189
* EAST LONGITUDE 3157779.610705
* SOUTH LATITUDE -52051.558431
* NORTH LATITUDE 1033804.749839
* 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 point of contact

CONTACT INFORMATION ►

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Hide Contact information ▲

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. Currently updating this dataset has not been planned. 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 point of contact

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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 0.0032808333333333331
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_1983",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 RufaRedKnotPotentialHabitat
* OBJECT TYPE composite
* OBJECT COUNT 172983

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME RufaRedKnotPotentialHabitat
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 172983
* 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 2023-07-05 00:00:00

PUBLICATION DATE 2023-11-10 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 2023-07-05 00:00:00

PUBLICATION DATE 2023-11-10 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

Online (AGOL) Review

- o A model prediction file was shared with select reviewers on ArcGIS Online. Points were placed within the USFWS potential habitat as well as the model potential habitat.
 - o AGOL review was completed in May 2019 on the draft version of this model.
- Independent Data Review
 - o Describe data sources –NLCD landcover and DCM shorelines (2009 and 2016).
 - o Describe methods – Current aerial imagery was used to determine likelihood of habitat

- Primary change to the model is the data source for open water has been substituted, as well as a significant reduction in total acreage for the model’s potential habitat, using 2019 NLCD landcover data to extract non-habitat land use categories, such as medium and high-density development and forested landcover classes. In addition, further model coverage for USFWS current counties were added using a 2-mile buffered tidal influence layer.
- Selected all coastal open water areas, NHP data, buffered DCM shorelines (2009 and 2016), and selected counties and merged all layers. Any landcover classes that are not typical habitat were then removed from the modeled area to produce the final model. The tidal influence layer from the ATLAS sweeping team was added and buffered 2 miles to add additional model coverage for current USFWS-listed counties.

CONFORMANCE TEST RESULTS

TEST PASSED Yes
 RESULT EXPLANATION
 Pass

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications
 CREATION DATE 2023-07-05 00:00:00
 PUBLICATION DATE 2023-11-10 00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ►

LINEAGE STATEMENT

ArcGIS Model Builder version 10.4.1 was used to build a model .

Layer 1

- Layer name: CountyBoundaryShoreline
- Layer description:
 - o Select counties with potential for red knot presence from County Boundary shapefile.
- Layer selection justification:
 - o Layer is used for county boundaries and shoreline area.
- “Habitat” versus “Nonhabitat” designations:
 - o Layer is used to delineate counties with red knot presence and is not used for habitat determinations. The layer was also used to create an area of low potential habitat within the county boundary but outside of the high potential habitat area.

Layer 2

- Layer name: dcm_oceanfront_shorelines
- Layer description:

- o Division of Coastal Management shoreline data from 2009 and 2016.
- Layer selection justification:
 - o Data layer was incorporated into the model with 2009 and 2016 shorelines (to ensure complete coverage of coast) buffered 20 miles in order to incorporate all inland areas that may contain potential habitat. The layer was processed in a preliminary model step included in the GDB as the model entitled "Prelim_DCMShorelines" in order to process the merge and dissolve of the 2009 and 2016 shorelines to a cohesive file for use in the model.
 - "Habitat" versus "Nonhabitat" designations:
 - o Area within 20-mile buffer is potential habitat. Areas of buffer were removed using NLCD data to reduce areas of nonhabitat.

Layer 3

- Layer name: NLCD Landcover Data 2019
- Layer description:
 - o NLCD 2019 landcover data.
- Layer selection justification:
 - o The NLCD 2019 data was used to reduce areas of nonhabitat such as forested areas and medium to highly developed areas.
 - "Habitat" versus "Nonhabitat" designations:
 - o Nonhabitat or low potential habitat designations used for this model – deciduous forests, developed – high intensity, emergent herbaceous wetlands, evergreen forest, mixed forest, and woody wetlands
 - o Habitat designations used for this model - open water, developed – low intensity, developed – medium intensity, barren land, shrub/scrub, herbaceous, hay/pasture, cultivated crops. Note that these habitats were not excluded and used in the model, but accuracy for these types varied widely.

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
 VOICE 919-707-6136

ADDRESS
 TYPE
 CITY Raleigh
 ADMINISTRATIVE AREA NC
 POSTAL CODE 27610
 COUNTRY US
 DELIVERY POINT 1020 Birch Ridge Drive
 E-MAIL ADDRESS ATLAS@ncdot.gov

HOURS OF SERVICE
 9:00am – 5:00pm Monday - Friday

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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 Process step ▲](#)

PROCESS STEP ►
DESCRIPTION

Summary of model steps:

Select all coastal open water areas, buffer DCM shorelines (2009 and 2016), and select counties and merge all layers.

Any landcover classes that are not typical habitat were then removed from the modeled area to produce the final model.

PROCESS CONTACT

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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

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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 [RufaRedKnotPotentialHabitat](#) ►

* TYPE Feature Class
* ROW COUNT 172983

DEFINITION

Potential Habitat areas for Rufa Red Knot in NC

DEFINITION SOURCE

NCDOT

FIELD [OBJECTID_1](#) ►

* 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_1 ▲](#)

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 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_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 PotHabitat ▶

- ALIAS PotHab
- * DATA TYPE String
- * WIDTH 25
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Model Output - Low or High potential habitat

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Low

DESCRIPTION Low Potential

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE High
DESCRIPTION High Potential
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field PotHabitat ▲](#)

FIELD **SciName** ▶

ALIAS SName
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Scientific Name of Species

DESCRIPTION SOURCE
NCDOT

[Hide Field SciName ▲](#)

FIELD **CommonName** ▶

ALIAS CName
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Common Name of Species

DESCRIPTION SOURCE
NCDOT

[Hide Field CommonName ▲](#)

[Hide Details for object RufaRedKnotPotentialHabitat ▲](#)

[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 2024-01-29

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 2024-02-01 14:50:49
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-29 15:32:07

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-01-29 15:32:07

[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

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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.

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Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

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

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

TYPE

DELIVERY POINT 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

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Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

The North Carolina Department of Transportation shall not be held liable for any errors in this metadata. 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. 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.

CONSTRAINTS

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