

Carolina Madtom - Identified Stream Reaches for Programmatic Agreement, October 2021 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Carolina Madtom, *Noturus furiosus*, catfish, Neuse River, Tar River, Endangered Species Act, threatened, Division 2/4/5/7, mitigation payment, programmatic, bridges/culverts replacement, repair and rehabilitation, aquatic, USFWS identified stream reach, USFWS, Neuse River Basin, Tar River Basin, Biota, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was made available 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. Data is current as of September 2019.

This dataset contains USFWS identified stream reaches for the Carolina Madtom. This dataset was created by USFWS to highlight areas of known or potential species occurrence that could trigger consultation under the ESA, as part of a programmatic bridge/culvert programmatic agreement between USFWS and NCDOT/FHWA/USACE.

Please read the programmatic conference opinion for applicability of bridge replacement, repair and rehabilitation projects and reference Appendix B1 for Section 7 Programmatic Process .

https://connect.ncdot.gov/resources/Environmental/EAU/BSG/Documents/Neuse%20River%20Waterdog%20&%20Carolina%20Madtom%20Programmatic/20200506_Final_PCO_CMT_NRWD.pdf

Description

The Carolina Madtom Identified Stream Reaches dataset is a polyline layer depicting streams with historical / known / potential in the Neuse and Tar River basins for Carolina madtom.

The Carolina Madtom is a small catfish, reaching a maximum length of nearly five inches. When compared to other madtoms, the Carolina madtom has a short, chunky body and a distinct color pattern. Three dark saddles along its back connect a wide, black stripe along its side extending from its snout to the base of its tail. The adipose fin has a dark blotch that does not quite reach the fin's edge, giving the impression of a fourth saddle. Yellowish to tan blotches space the saddles, while the rest of the fish is tan. The belly is un-speckled, and the tail has crescent-shaped brown bands near its edge and center. Its pectoral spines have well-defined serrated (saw-like) projections along both margins. Stinging spines in its pectoral fins, earn this fish the "furiosus" title that is part of its scientific name.

The dataset is linear stream features depicting historical/known/potential habitat for listed/proposed species, as of 2019. Use of these datasets is solely for the use as part of the decision process for the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE. These datasets are intended to be updated annually and provided to NCDOT personnel for use in the decision process for the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE.

These datasets were created for the sole purpose of informing the decision process for the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE. These data sets do not replace Heritage element occurrence data, NCWRC PAWS data, nor other USFWS publicly available species occurrence or habitat data.

Credits

The USFWS Raleigh Ecological Service's Aquatic Biologist was tasked to create this dataset as part of the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE.

Annual maintenance of this dataset is handled by the USFWS Raleigh Ecological Service who sends datasets to the Biological Surveys Group within NCDOT.

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 -79.055422 **East** -77.076242
North 36.270886 **South** 35.000758

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 boundaries, biota, 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 2019-09-27 00:00:00
PUBLICATION DATE 2021-10-15 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS Carolina madtom, Noturus furiosus, catfish, Neuse River, Tar River, Endangered Species Act, threatened, amphibian, aquatic, USFWS identified stream reach, USFWS, Neuse River Basin, Tar River Basin, Biota, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ►

TITLE User
CREATION DATE 2019-09-27 00:00:00
PUBLICATION DATE 2021-10-15 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Carolina Madtom - Identified Stream Reaches for Programmatic Agreement, October 2021 - NC Department of Transportation

CREATION DATE 2019-09-27 00:00:00

PUBLICATION DATE 2021-10-15 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 ▲](#)

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

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RESPONSIBLE PARTY

ORGANIZATION'S NAME USFWS Raleigh Ecological Service
CONTACT'S POSITION Aquatic Biologist
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-856-4520

ADDRESS

TYPE

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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

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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 2019-09-27 00:00:00

ENDING DATE 2019-09-27 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -79.055422

* EAST LONGITUDE -77.076242

* NORTH LATITUDE 36.270886

* SOUTH LATITUDE 35.000758

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 1983661.345429

* EAST LONGITUDE 2567206.769543

* SOUTH LATITUDE 460616.541558

* NORTH LATITUDE 917512.724221

* 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 ►

PHONE

VOICE 919-707-6136

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POSTAL CODE 27610

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[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY **annually**

SCOPE OF THE UPDATES **dataset**

OTHER MAINTENANCE REQUIREMENTS

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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**

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TYPE

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CITY **Raleigh**

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POSTAL CODE **27610**

COUNTRY **US**

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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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["Cen

tral_Meridian",-
79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.
1666666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],A
UTHORITY["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 CarolinaMadtom___
* OBJECT TYPE composite
* OBJECT COUNT 994

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME CarolinaMadtom___
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 994
* 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 2019-09-27 00:00:00

PUBLICATION DATE 2021-10-15 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 2019-09-27 00:00:00

PUBLICATION DATE 2021-10-15 00:00:00

Hide Product specification ▲

Hide Data quality report - Conceptual consistency ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

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 2019-09-27 00:00:00

PUBLICATION DATE 2021-10-15 00:00:00

[Hide Product specification ▲](#)

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

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

Base data layers:

- major_hydro-1m (GCS_North American_1983)
- hydro24k_arc (GCS_North American_1983)
- HUC10 watersheds

major_hydro-1m (GCS_North American_1983) -- http://data-ncdenr.opendata.arcgis.com/datasets/2a5324f732bb44d9a1ca29f1c17370ee_0

hydro24k_arc (GCS_North American_1983) -- https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOTApp_ESM/NCDOT_24kHydro/MapServer

HUC10 watersheds -- <http://data-ncdenr.opendata.arcgis.com/datasets/dwr-10-digit-huc-watersheds>

Species data layer was created by initially selecting stream segments (hydrology) that overlapped NC Natural Heritage Element Occurrence (EO) polygons for each species, then connecting stream segments between EOs, and extending stream segments to headwaters. HUC10 watersheds were then selected based on whether they contained species stream segments.

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 point of contact

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

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TYPE

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

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

DESCRIPTION

Linear 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 point of contact

CONTACT INFORMATION ▶

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

DESCRIPTION

Data was downloaded as a shapefile. Features for NC were exported out and converted to a geodatabase.

PROCESS 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 Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

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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ADMINISTRATIVE AREA NC

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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 [CarolinaMadtom__](#) ►

* TYPE Feature Class

* ROW COUNT 994

DEFINITION

Areas of known occurrence for the Carolina Madtom

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.

[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 [StreamName](#) ►

- * ALIAS StreamName
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Name of Stream where Carolina Madtom is found

DESCRIPTION SOURCE

NCDOT

Hide Field StreamName ▲

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 ▲

Hide Details for object CarolinaMadtom__ ▲

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 2024-01-26

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 14:11:58

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-26 18:58:08

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-01-26 18:58:08

[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 annually

OTHER MAINTENANCE REQUIREMENTS

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[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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[Hide Metadata Constraints ▲](#)