

NCDOT Road Inundation Points (No Lidar), March 2022 - NC Department of Transportation

File Geodatabase Feature Class



Tags

interstates, highways, flooding, transportation, Eastern Seaboard, Atlantic Coast, resiliency, coastal, hurricanes, inundation, rivers, streams, East Coast, Hydraulics, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in February 2022 as part of the Project ATLAS initiative at NCDOT to support the Hydraulics Unit with project delivery in the development phase.

This dataset comprises points where roadway elevation data is not currently available. It was included to demonstrate where gaps in the analysis exist. These gaps can be filled when the data later become available.

Description

The NCDOT Road Points (No Lidar) dataset is a statewide point layer where roadway elevation data is not currently available.

The layer will be helpful to understand road elevations in relation to flood events/inundation to help with planning, mitigation and emergency response. It would allow ATLAS users to understand road elevations in relation to any project.

Datasets developed under Project ATLAS do not replace any Hydraulics Unit field 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 Hydraulics Unit within NCDOT was tasked to create this dataset.

Maintenance of this dataset is handled by the Hydraulics Unit. 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 -84.330352 **East** -75.419514

North 36.589925 South 33.744722

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, 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 2022-02-08 00:00:00

PUBLICATION DATE 2022-03-31 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS interstates, highways, flooding, transportation, Eastern Seaboard, Atlantic Coast, resiliency, coastal, hurricanes, inundation, rivers, streams, East Coast, Hydraulics, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ▶

TITLE User

CREATION DATE 2022-02-08 00:00:00

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[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE NCDOT Road Inundation Points (No Lidar), March 2022 - NC Department of Transportation

CREATION DATE 2022-02-08 00:00:00

PUBLICATION DATE 2022-03-31 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 resource provider

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

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

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CONTACT'S ROLE point of contact

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Hide Contact information ▲

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - Hydraulics Unit

CONTACT'S POSITION State Hydraulics Engineer

CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE
VOICE 919-707-6700

ADDRESS
TYPE
DELIVERY POINT 1000 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

[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 Hydraulics Unit within NCDOT was tasked to create this dataset.

Maintenance of this dataset is handled by the Hydraulics Unit. 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 -84.125201

EAST LONGITUDE -75.426058

SOUTH LATITUDE 33.829738

NORTH LATITUDE 36.556356

EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

BEGINNING DATE 2022-02-08 00:00:00

ENDING DATE 2022-02-08 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.330352

* EAST LONGITUDE -75.419514

- * NORTH LATITUDE 36.589925
- * SOUTH LATITUDE 33.744722
- * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE 433310.862475
- * EAST LONGITUDE 3051815.843959
- * SOUTH LATITUDE 38764.380343
- * NORTH LATITUDE 1033673.215325
- * 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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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

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

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

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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 3048.0060960121918
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.0032808333333333331
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264
VCSWKID 105703
LATESTVCSWKID 6360

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]],VERTCS["NAVD_1988_Foot_US",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot_US",0.3048006096012192]]

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 RoadInundationPointsNoLIDAR

* OBJECT TYPE point

* OBJECT COUNT 232912

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME RoadInundationPointsNoLIDAR

* FEATURE TYPE Simple

* GEOMETRY TYPE Point

* HAS TOPOLOGY FALSE

* FEATURE COUNT 232912

* 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 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 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 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 00:00:00

Hide Product specification ▲

Hide Data quality report - Conceptual consistency ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

A contractor created the layer using numerous manual and automated checks as well as QA/QC of the layers used in creation and the final product by NCDOT personnel. The original layers had gone through the normal process from NC Emergency Management to assure quality.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT

Points were generated every 50 feet along primary and secondary roads. It comprises points where roadway elevation data is not currently available. It was included to demonstrate where gaps in the analysis exist

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

ADDRESS

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

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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

Data was reviewed in ESRI's Data Reviewer tool to verify geometry. No legitimate errors were found.

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 ►

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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POSTAL CODE 27610

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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 [RoadInundationPointsNoLIDAR](#) ▶

- * TYPE Feature Class
- * ROW COUNT 232912

DEFINITION

Points where roadway elevation data is not currently available.

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 [Division](#) ▶

- ALIAS Division
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

The NCDOT highway division number.

DESCRIPTION SOURCE
NCDOT

[Hide Field Division ▲](#)

FIELD **RouteClass** ►

ALIAS **RouteClass**
* DATA TYPE **String**
* WIDTH **5**
* PRECISION **0**
* SCALE **0**

FIELD DESCRIPTION

The route classification, derived from NCDOT's NCRoutes feature class. A value of 1 is an interstate. A value of 2 is a U.S. route. A value of 3 is an NC route. Larger values are secondary routes.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES

VALUE 1	DESCRIPTION Interstate	ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
VALUE 2	DESCRIPTION US Route	ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
VALUE 3	DESCRIPTION NC Route	ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
VALUE 4	DESCRIPTION Secondary Route	ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
VALUE 5	DESCRIPTION Non-System	ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
VALUE 6	DESCRIPTION Other State Agency Route	ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
VALUE 7	DESCRIPTION Federal Route	ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
VALUE 80	DESCRIPTION Ramp	ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field RouteClass ▲](#)

FIELD **RouteName** ►

ALIAS **RouteName**
* DATA TYPE **String**

* WIDTH 20

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The route name, derived from NCDOT's NCRoutes feature class.

DESCRIPTION SOURCE

NCDOT

[Hide Field RouteName ▲](#)

FIELD RouteID ►

ALIAS routeID

* DATA TYPE String

* WIDTH 20

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

An 11-digit route identifier, derived from NCDOT's NCRoutes feature class.

DESCRIPTION SOURCE

NCDOT

[Hide Field RouteID ▲](#)

FIELD County ►

* ALIAS County

* DATA TYPE String

* WIDTH 20

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The name of the North Carolina county the point is located in.

DESCRIPTION SOURCE

NCDOT

[Hide Field County ▲](#)

FIELD PtID ►

ALIAS PointID

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

An ID unique to each road point. If a road point has inundation for all flood recurrence intervals, then the dataset will display five co-located points. Each will have different recurrence intervals, but the same PtID value.

DESCRIPTION SOURCE

NCDOT

[Hide Field PtID ▲](#)

FIELD [StreetNm](#) ▶

ALIAS [StreetName](#)

* DATA TYPE [String](#)

* WIDTH [100](#)

* PRECISION [0](#)

* SCALE [0](#)

FIELD DESCRIPTION

The common name for the road, based on NCDOT's Route Characteristics dataset.

DESCRIPTION SOURCE

[NCDOT](#)

[Hide Field StreetNm](#) ▲

FIELD [RouteGp](#) ▶

* ALIAS [RouteGroup](#)

* DATA TYPE [String](#)

* WIDTH [30](#)

* PRECISION [0](#)

* SCALE [0](#)

FIELD DESCRIPTION

Categorizes the road as primary or secondary, based on the value of its RouteClass field.

DESCRIPTION SOURCE

[NCDOT](#)

LIST OF VALUES

VALUE [Primary](#)

DESCRIPTION [Primary Road](#)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE [NCDOT](#)

VALUE [Secondary](#)

DESCRIPTION [Secondary Road](#)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE [NCDOT](#)

[Hide Field RouteGp](#) ▲

FIELD [EvacRt](#) ▶

* ALIAS [EvacuationRoute](#)

* DATA TYPE [String](#)

* WIDTH [5](#)

* PRECISION [0](#)

* SCALE [0](#)

FIELD DESCRIPTION

Whether the route is an established evacuation route. Evacuation routes can accommodate heavy traffic volumes and higher speeds.

DESCRIPTION SOURCE

[NCDOT](#)

LIST OF VALUES

VALUE [Y](#)

DESCRIPTION [Yes, evacuation route](#)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE [NCDOT](#)

VALUE [N](#)

DESCRIPTION [Not an evacuation route](#)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE [NCDOT](#)

[Hide Field EvacRt ▲](#)

[Hide Details for object RoadInundationPointsNoLIDAR ▲](#)

[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 14:03:59
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-26 11:27:38

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-26 11:27:38

[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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Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS

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[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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CONSTRAINTS

LIMITATIONS OF USE

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