

Section 10 Navigable Waters, September 2025 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Section 10, Navigable, Navigable Water, USACE, Rivers and Harbors, Infrastructure, Transportation, NCDOT, NRTR, Environment, Location, North Carolina, ATLAS

Summary

The Navigable Waters dataset is a statewide data layer of all the waterbodies (and reasonable inclusions) taken from the authoritative document, "Navigable Waters of North Carolina US Army Corps of Engineers, Wilmington District".

The purpose of this dataset is to provide a geospatial accounting of the waterbodies, and their upstream limits, which are under the USACE designation as a Navigable Water under Section 10 of the Rivers and Harbors Act. Reasonable assumptions were made for inclusions of waterbodies that do not explicitly appear on the USACE authoritative document but are located in a geographical position that would warrant inclusions (i.e. an embayment of a Section 10 waterbody that does not share the same name as the official waterbody but would be reasonably concluded a part of the larger system).

These data are provided to Project Atlas to allow for consideration of the findings during the typical project development process. Different business groups within NCDOT will use this dataset including Environmental Analysis Unit, Environmental Policy Unit, NCDOT's Hydraulics Unit, Transportation Planning Division (TPD) unit, Roadside Environmental Unit, Location and Surveys Unit, Project Management Unit.

Description

The Navigable Waters dataset is a statewide data layer of all the waterbodies (and reasonable inclusions) taken from the authoritative document, "Navigable Waters of North Carolina US Army Corps of Engineers, Wilmington District". The purpose of this dataset is to provide a geospatial accounting of the waterbodies, and their upstream limits, which are under the USACE designation as a Navigable Water under Section 10 of the Rivers and Harbors Act.

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 NCDOT'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 -84.384441 **East** -75.417265
North 36.592078 **South** 33.730286

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, 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 2025-07-24 00:00:00

PUBLICATION DATE 2025-09-12 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Section 10, Navigable, Navigable Water, USACE, Rivers and Harbors, Infrastructure, Transportation, NCDOT, NRTR, Environment, Location, North Carolina, ATLAS

THESAURUS ►

TITLE User

CREATION DATE 2025-07-24 00:00:00

PUBLICATION DATE 2025-09-12 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ►

TITLE Section 10 Navigable Waters, September 2025 - NC Department of Transportation

CREATION DATE 2025-07-24 00:00:00

PUBLICATION DATE 2025-09-12 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 919-707-6146

ADDRESS

TYPE

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

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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 North Carolina Department of Transportation - Hydraulics Unit
CONTACT'S POSITION Engineering Supervisor

CONTACT'S ROLE originator

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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 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 2025-07-24 00:00:00

ENDING DATE 2025-07-24 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.384441

* EAST LONGITUDE -75.417265

* NORTH LATITUDE 36.592078

* SOUTH LATITUDE 33.730286

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 417424.431978

* EAST LONGITUDE 3052448.658638

* SOUTH LATITUDE 34332.607054

* NORTH LATITUDE 1034457.310213

* 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 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

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[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

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CONSTRAINTS

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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 3048.0060960121928
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 Section10NavigableWaters

- * OBJECT TYPE composite

* OBJECT COUNT 7459

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME Section10NavigableWaters

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 7459

* 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 2025-07-24 00:00:00

PUBLICATION DATE 2025-09-12 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 2025-07-24 00:00:00

PUBLICATION DATE 2025-09-12 00:00:00

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

This dataset was exported into Microsoft Excel for efficient comparison with the authoritative "Navigable Waters of North Carolina US Army Corps of Engineers, Wilmington District" list. The Excel function "XLOOKUP" was used to find matches from the "Section 10 Waterbody" field of the USACE authoritative list to the "NAME" field of the polyline feature. The XLOOKUP function simultaneously filters the "NAME" field while also returning the corresponding "DESC_" value for use with matching to the "Tributary" field from the authoritative "Navigable Waters of North Carolina US Army Corps of Engineers, Wilmington District" list. This allows waterbodies with commonly occurring names to be accurately matched to the appropriate geospatial location (downstream tributary)-for example, "Broad Creek" occurs nine times in authoritative "Navigable Waters of North Carolina US Army Corps of Engineers, Wilmington District" list.

Conditional formatting was used to highlight exact matches between records of both the authoritative "Navigable Waters of North Carolina US Army Corps of Engineers, Wilmington District" list and the data layer. These exact matches were assigned a confidence score of "High". Microsoft Excel "Power Query Fuzzy Merge" was used to compare remaining unmatched values from the authoritative "Navigable Waters of North Carolina US Army Corps of Engineers, Wilmington District" list and the data layer. This tool uses an algorithm to make close, but not exact matches, between records. This accounts for minor discrepancies in spelling or formatting. The default similarity threshold of 80% was used for this comparison. These records that contained minor discrepancies, but otherwise match the authoritative list, were corrected in the data layer and assigned a confidence score of "High". Records that were not highlighted using the conditional formatting (not exact matches) or were not matched using the "Power Query Fuzzy Merge" tool were manually located using heads-up mapping techniques and assigned a confidence score of either "Low", "Medium", or "High". "Low" records were filtered out of the dataset before finalizing this product.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2025-07-24 00:00:00

PUBLICATION DATE 2025-09-12 00:00:00

[Hide Product specification ▲](#)

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

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

In general, these data underwent extraction from blue line streams dataset present in NC 24K Streams 2014 (https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOTApp_ESM/NCDOT_24kStreams/MapServer/0) geospatial dataset using the "Navigable Waters of North Carolina US Army Corps of Engineers, Wilmington District" authoritative list as a minimum for all waterbodies to be included.

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 919-707-6146

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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 ▲](#)

PROCESS STEP ►

DESCRIPTION

The authoritative list was converted from .pdf format into Microsoft Excel format. The head of navigation was identified using definitive confluences and landmarks where provided, or “heads-up” mapping techniques and measurements when only a length of navigability was given (i.e. 3.3 miles). Reasonable assumptions were made for inclusions of waterbodies that do not explicitly appear on the USACE authoritative document but are located in a geographical position that would warrant inclusions (i.e. an embayment of a Section 10 waterbody that does not share the same name as the official waterbody but would be reasonably concluded a part of the larger system). Geoprocessing tool “Split” was used to manually assign segments of the ATLAS Hydrography geospatial dataset with confidence scores of “Low”, “Medium”, or “High”.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Hydraulics Unit
CONTACT'S POSITION State Hydraulics Engineer
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

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

CONTACT INSTRUCTIONS

The features in this dataset are linked to the Hydraulics Reservoir on the NCDOT Connect Sharepoint Site. Please contact the Hydraulics Unit for access to the associated document or any other questions related to this dataset.

[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 ►

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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 [Section10NavigableWaters](#) ▶

* TYPE Feature Class

* ROW COUNT 7459

DEFINITION

Section 10 Waters

DEFINITION SOURCE

USACE

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 [Name](#) ▶

ALIAS Name

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0
FIELD DESCRIPTION
Waterbody Name

DESCRIPTION SOURCE
USACE

DESCRIPTION OF VALUES
Name

Hide Field Name ▲

FIELD Confidence ►
* ALIAS Confidence
* DATA TYPE String
* WIDTH 254
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Confidence with values of either "Low", "Medium" or "High"

DESCRIPTION SOURCE
AtkinsRealis

DESCRIPTION OF VALUES
Low, Medium, High confidence

Hide Field Confidence ▲

FIELD Match ►
* ALIAS Match
* DATA TYPE String
* WIDTH 254
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Match type applied to each record

DESCRIPTION SOURCE
AtkinsRealis

DESCRIPTION OF VALUES

- Match-exact match
- Manual Match-manually located records using heads-up mapping techniques
- Fuzzy Match-matched using Microsoft Excel "Power Query Fuzzy Merge"
- Tidal-Records that were reasonably assumed to be Section 10 Waters based on clear tidal influence, but were not included in the authoritative list (i.e. Atlantic Ocean).
- No Match-Typically embayments (not included in the authoritative list) but with less confidence for inclusion than Manual Match waterbodies

Hide Field Match ▲

FIELD Auth_ID ►

- * ALIAS Auth_ID
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

Hide Field Auth_ID ▲

FIELD Length_mi ►

- * ALIAS Length_mi
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

Hide Field Length_mi ▲

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 Section10NavigableWaters ▲

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 2025-09-24

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 2025-09-24 14:57:00
LAST MODIFIED IN ARCGIS FOR THE ITEM 2025-09-24 14:57:20

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2025-09-24 14:57:20

[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

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[Hide Contact information ▲](#)

[Hide Metadata Maintenance ▲](#)

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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