

Project ATLAS Releases New GIS Data – October 2019

Project ATLAS continues to advance the use of GIS data to streamline project activities for NCDOT. A total of thirty-three (33) new data layers have been added to ATLAS applications (Search Tool, Screening Tool, and Workbench) over the last month.

These new North Carolina statewide GIS layers cover several discipline areas including:

- Community Studies (5 layers*)
- Historic Architecture and Archaeology (2 layers*)
- Hydrography (13 layers*)
- Conservation Areas (1 layer*)
- Threatened and Endangered Species (6 layers*)
- Utilities (2 layers*)
- Water Quality (4 layers*)

A brief description of each layer is available below. When you download these datasets from the ATLAS Search or Screening Tools, full copy of metadata PDF will be provided in the data download package.

Community Studies

1. *NC Adult Education and Training Facilities*: point layer for locations of post-secondary and technical educational institutions serving the adult population
2. *NC Childcare Facilities*: point layer for locations of childcare / daycare facilities
3. *NC K-12 schools*: point layer for locations of K-12 schools
4. *NC Medical Facilities*: point layer depicting various types of medical facilities
5. *NC Places of Worship*: point layer that depicts places of worship including churches, synagogues, mosques, and temples

Historic Architecture and Archaeology

1. *NC Cemeteries*: point layer depicting locations of cemeteries
2. *Significant Coastal Archaeological Resources Areas of Environmental Concern (AEC)*: polygon layer depicting areas that contain archaeological remains (objects, features, and/or sites) that have more than local significance to history or prehistory

Hydrography

1. *Coastal Public Trust Shorelines AEC*: polygon layer depicting non-ocean shorelines immediately contiguous to public trust areas, located inland of the dividing line between coastal fishing waters and inland fishing waters and extending 30 feet landward of the normal highwater level or normal water
2. *Coastal Estuarine Water Shorelines AEC*: polygon layer depicting catchment areas situated entirely within the coastal area which contain a water body classified as A-II by the Environmental Management Commission
3. *Estuarine Waters AEC*: polygon layer depicting all the waters of the Atlantic Ocean within the boundary of North Carolina and all the waters of the bays, sounds, rivers and tributaries thereto seaward of the dividing line between coastal fishing waters and inland fishing waters

4. *NC ATLAS Hydrography, Version 1.2*: polyline layer depicting location and various regulatory considerations of water resources with respect to transportation planning, and must be considered for all phases of planning, permitting, and construction activities
5. *NC ATLAS Hydrography, Version 1.2 (Abridged)*: polyline layer consisting of the abridged version of the ATLAS Hydrography layer containing lesser attribute data
6. *NC ATLAS Hydrography Artificial Path, Version 1.2*: polyline layer depicting the centerlines for double line streams and waterbodies, to represent network connectivity related to the NC ATLAS Hydrography layer
7. *USACE Norfolk District Section 408 Waters in NC*: polygon layer depicting dredged channels within the regulatory district of the Norfolk Corps of Engineers
8. *Ocean Hazard Erodible AEC*: polygon layer depicting areas where there exists a substantial possibility of excessive erosion and significant shoreline fluctuation
9. *Public Trust AEC*: polygon layer depicting coastal waters and submerged lands that every North Carolinian has the right to use for activities such as boating, swimming or fishing
10. *Public Trust Unvegetated Beach AEC*: polygon layer depicting beach areas within the Ocean Hazard Area and are designated as an Unvegetated Beach Area on either a permanent or temporary basis
11. *NRCS Riparian Buffer Watersheds Index Mapping*: polygon layer depicting an index map to all NRCS (Natural Resources Conservation Services) maps
12. *NC Open Water Lines*: polyline layer depicting all open waters derived from LiDAR
13. *NC Open Water Polygons*: polygon layer depicting all open waters derived from LiDAR

Conservation Area

1. *NC Sandhills Safe Harbor Properties for RCW*: polygon layer depicting properties that are enrolled in the NC Sandhills Safe Harbor Program, a voluntary program for the conservation of Red-Cockaded Woodpeckers (RCWs)

Threatened and Endangered Species

1. *IPaC (Information for Planning and Consultation) Critical Habitat Species*: polygon layer county boundary polygons with shoreline which contain ECOS - US Fish and Wildlife Service data attached after post processing
2. *NC Atlantic Sturgeon Critical Habitat*: polyline layer depicting streams along which Critical Habitat has been designated for Atlantic Sturgeon
3. *NC Mines*: point layer for present and former mine locations, composed of a merged database comprised of both USGS and MRDS mine locations throughout the State of North Carolina
4. *Northern Long-Eared Bat hibernation and/or Maternity Sites*: polygon layer for hydrologic unit boundaries that are known to contain Northern Long-Eared Bat hibernation and/or maternity sites
5. *NC Portal Access to Wildlife Systems (PAWS) Survey Points*: polygon layer depicting survey locations for surveys conducted by biologists throughout the survey season
6. *NC Portal Access to Wildlife Systems (PAWS) Survey End Points*: polygon layer depicting survey end point locations for surveys conducted by biologists throughout the survey season

Utilities

1. *NC Utility Power Providers*: polygon layer to provide NCDOT the ability to locate boundaries of service for Electric Power providers
2. *NC Utility Power Providers – Universities*: point layer that provides NCDOT the ability to locate Universities that are Electric Power providers

Water Quality

1. *Public Water Supply Wellfields AEC*: polygon layer depicting areas of well-drained sands that extend downward from the surface into the shallow ground water table which supplies the public with potable water
2. *Small Surface Water Supply Watersheds AEC*: polygon layer depicting catchment areas situated entirely within the coastal area which contain a water body classified as A-II by the Environmental Management Commission
3. *Unique Coastal Geologic Formations AEC*: polygon layer depicting sites that contain geologic formations that are unique or otherwise significant components of coastal systems, or that are especially notable examples of geologic formations or processes in the coastal area
4. *Western North Carolina Watersheds Draining to Critical Habitat Mapping*: polygon layer depicting US Geological Survey (USGS) HUC10 watershed basins that intersect Western NC Counties and drain (directly or eventually) into aquatic designated Critical Habitats

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. Datasets developed under Project ATLAS do not replace any community studies 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 predecisional.