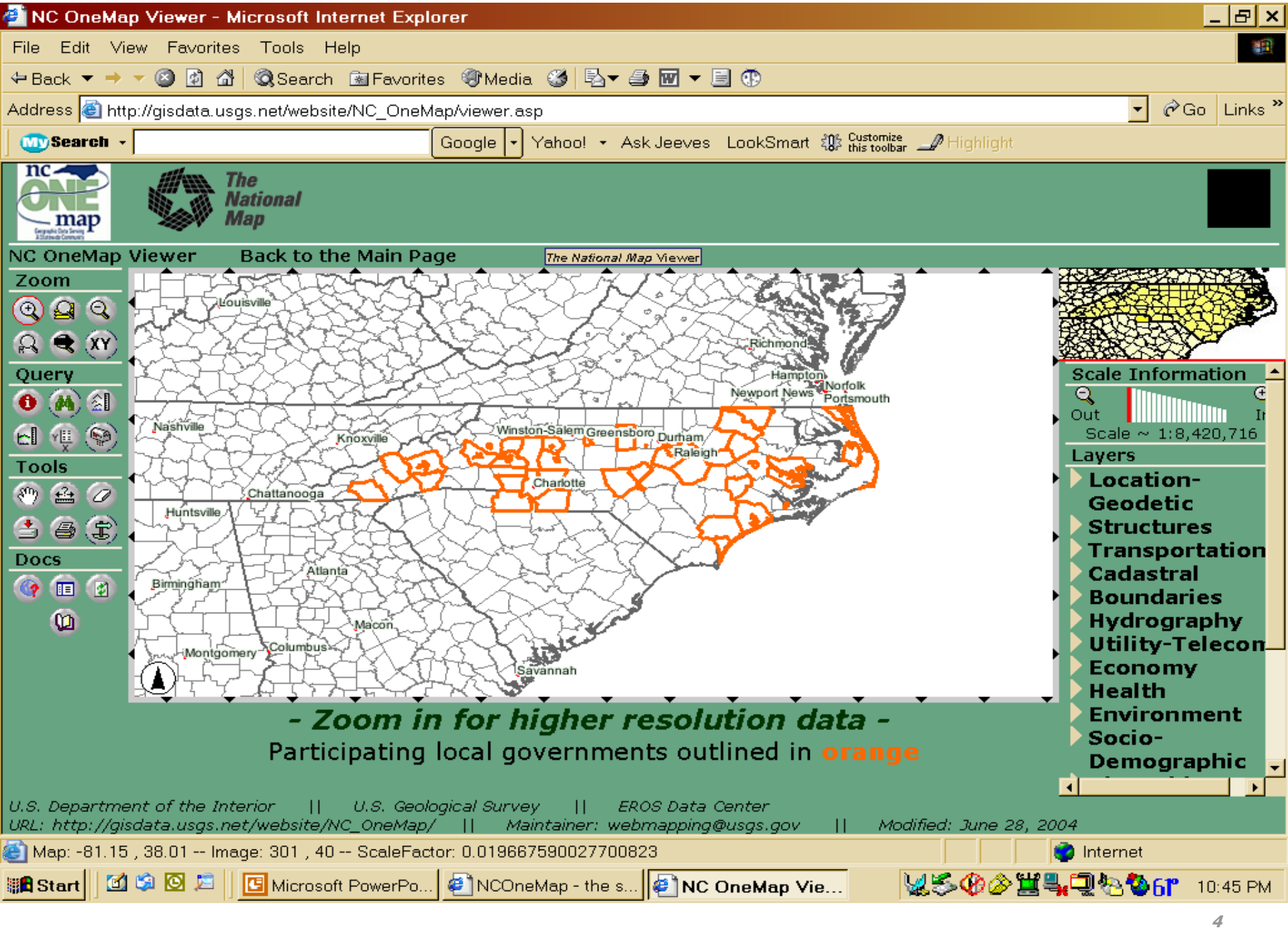
One North Carolina Naturally Internet Mapping for Decision Support

Jeffrey Brown
Center for Geographic Information and Analysis
November 17, 2004

Internet Mapping

- NC OneMap – the geospatial backbone
- Example for conservation planning
- Focused application—conservation map viewer
- Where we are headed

www.nconemap.net


NC OneMap Viewer - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://gisdata.usgs.net/website/NC_OneMap/viewer.asp
Go Links
MySearch Google Yahoo! Ask Jeeves LookSmart Customize this toolbar Highlight
nc ONE map
The National Map
NC OneMap Viewer
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The National Map Viewer
Zoom
Query
Tools
Docs
Louisville
Richmond
Hampton
Newport News
Norfolk
Portsmouth
Nashville
Knoxville
Winston-Salem
Greensboro
Durham
Raleigh
Charlotte
Chattanooga
Huntsville
Atlanta
Birmingham
Macon
Columbus
Montgomery
Savannah
Scale Information
Out
Scale ~ 1:8,420,716
Layers
Location-Geodetic
Structures
Transportation
Cadastral
Boundaries
Hydrography
Utility-Telecon
Economy
Health
Environment
Socio-Demographic
- Zoom in for higher resolution data -
Participating local governments outlined in orange
U.S. Department of the Interior || U.S. Geological Survey || EROS Data Center
URL: http://gisdata.usgs.net/website/NC_OneMap/ || Maintainer: webmapping@usgs.gov || Modified: June 28, 2004
Map: -81.15 , 38.01 -- Image: 301 , 40 -- ScaleFactor: 0.019667590027700823
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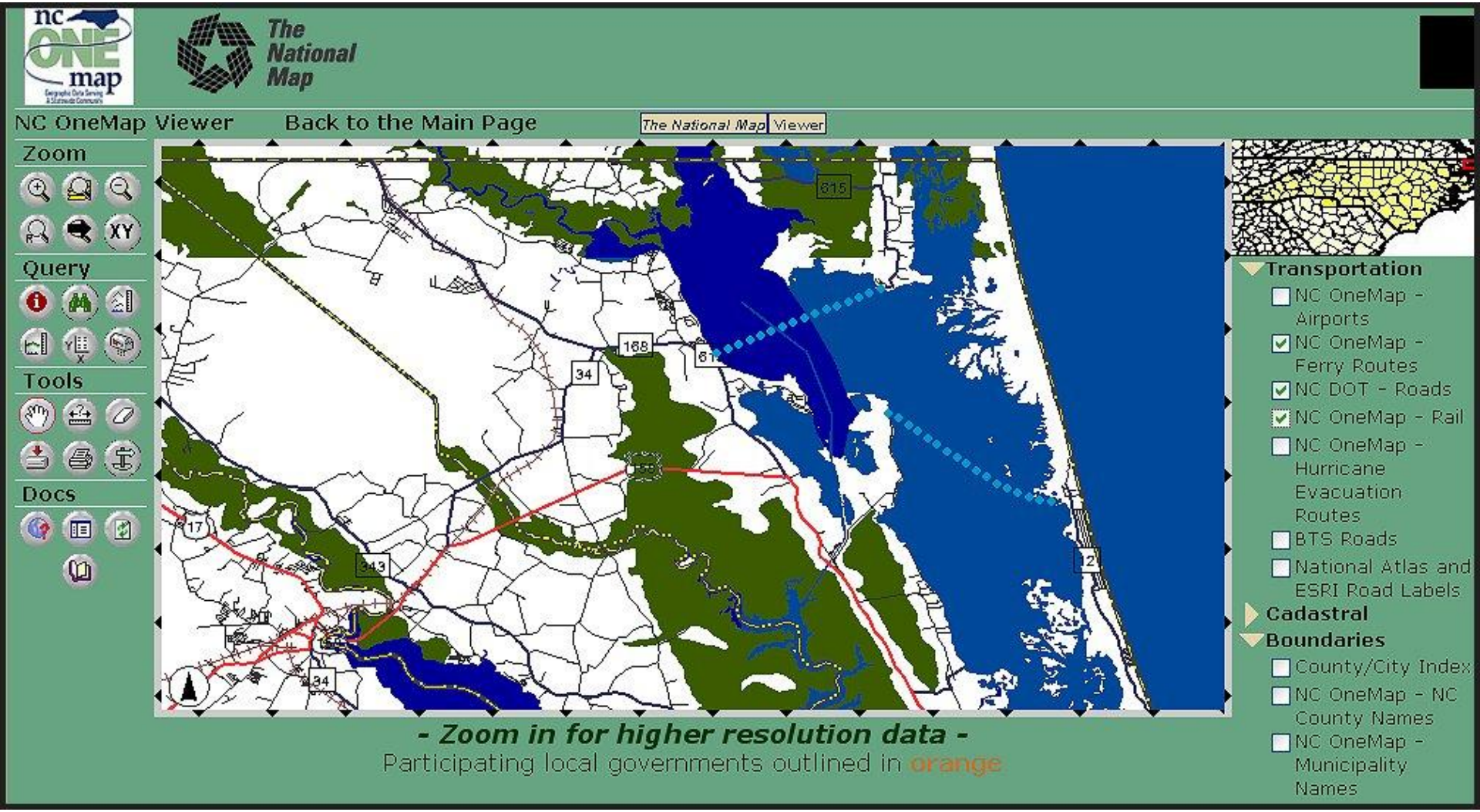
Microsoft PowerPo...
NCOneMap - the s...
NC OneMap Vie...
10:45 PM


nc ONE map
The National Map
NC OneMap Viewer
Back to the Main Page
The National Map
Viewer
Zoom
Query
Tools
Docs
Transportation
NC OneMap - Airports
NC OneMap - Ferry Routes
NC DOT - Roads
NC OneMap - Rail
NC OneMap - Hurricane Evacuation Routes
BTS Roads
National Atlas and ESRI Road Labels
Cadastral
Boundaries
County/City Index
NC OneMap - NC County Names
NC OneMap - Municipality Names
- Zoom in for higher resolution data -
Participating local governments outlined in orange

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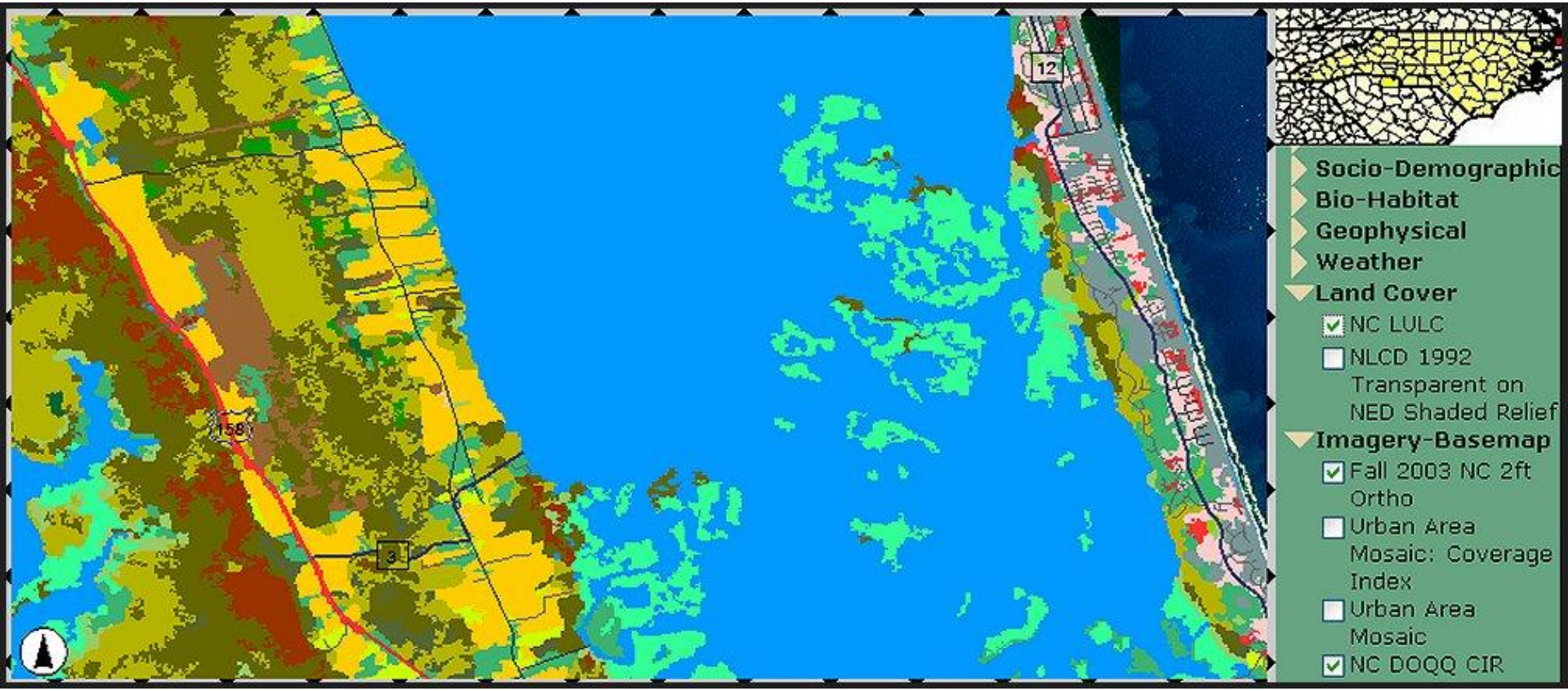
3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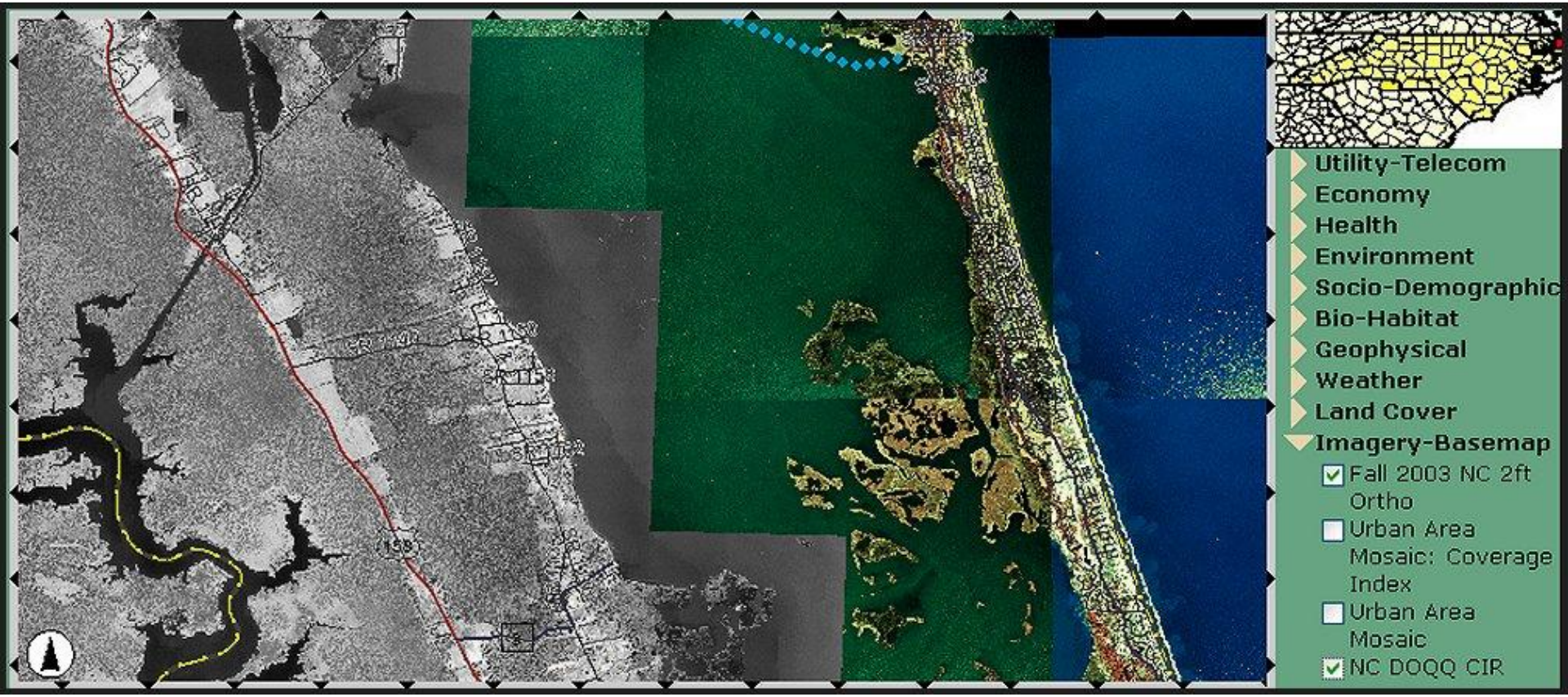
Socio-Demographic
Bio-Habitat
Geophysical
Weather
Land Cover
NC LULC
NLCD 1992 Transparent on NED Shaded Relief
Imagery-Basemap
Fall 2003 NC 2ft Ortho
Urban Area Mosaic: Coverage Index
Urban Area Mosaic
NC DOQQ CIR


Utility-Telecom
Economy
Health
Environment
Socio-Demographic
Bio-Habitat
Geophysical
Weather
Land Cover
Imagery-Basemap
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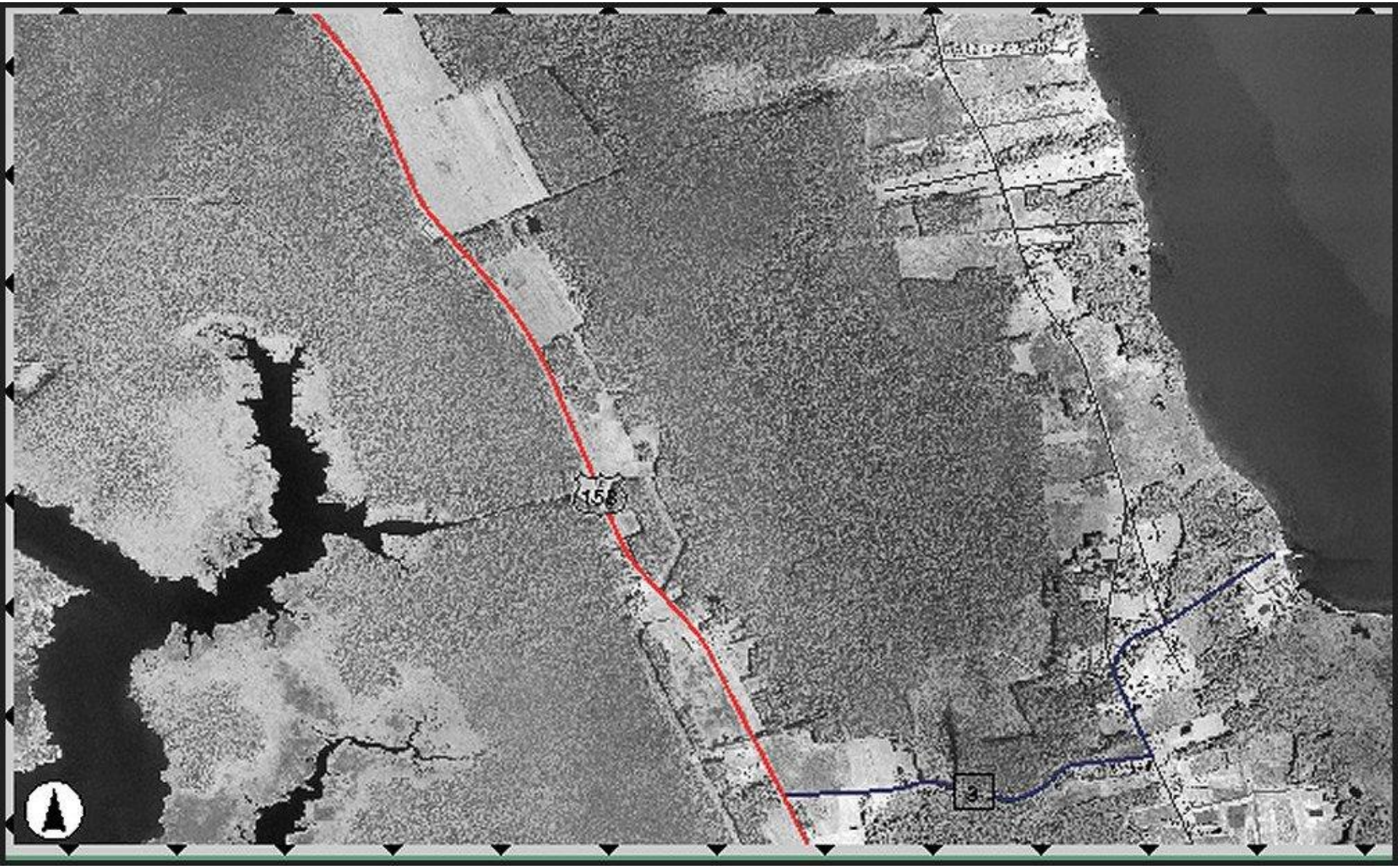
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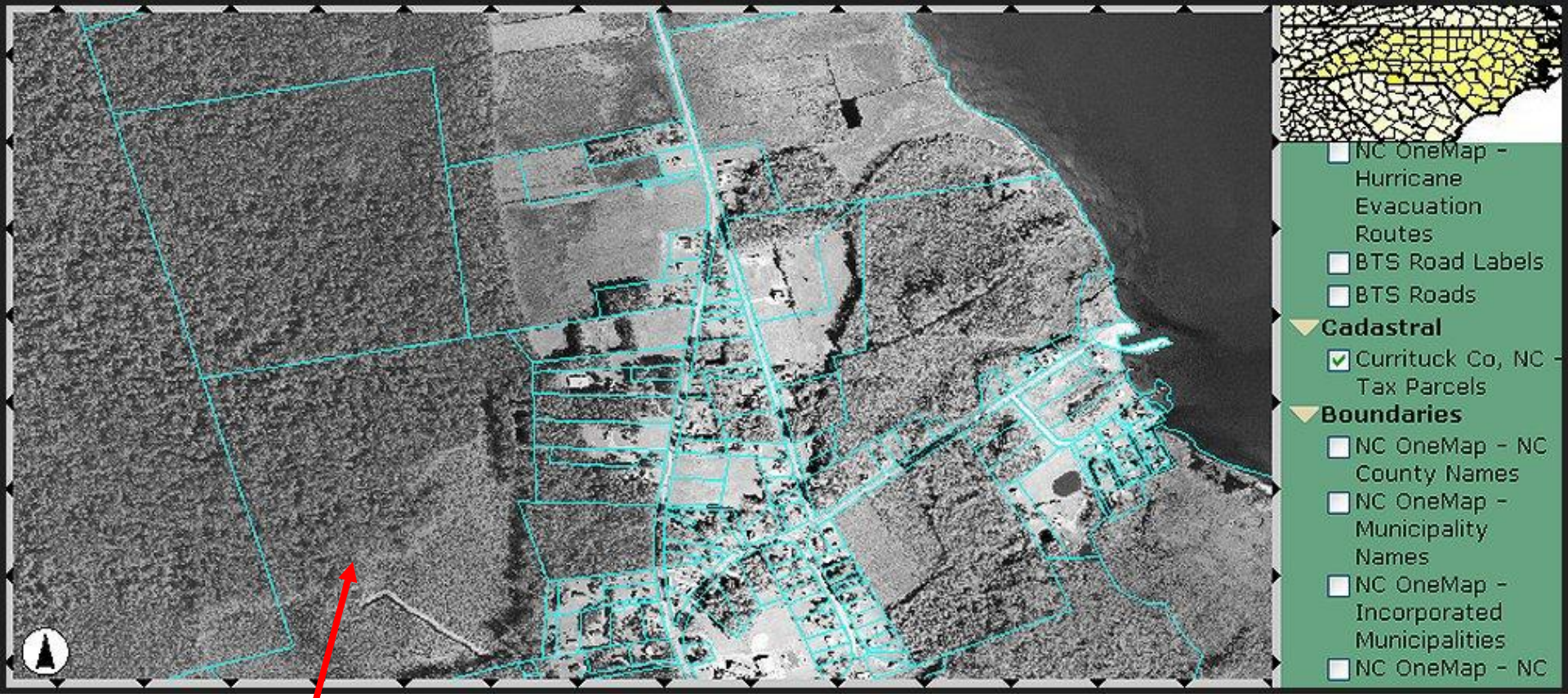


USGS

OGC Identify Features Back to the Main Page The National Map Viewer

Currituck Co, NC - Tax Parcels

AREA	PERIMETER	PARCELS5_0	MSLINK	PARCEL_ID	SUBD_CODE	#SHAPE#	#ID#
5709236.89431	11818.58337	158234	4383	0093-000-0097-0000		[Geometry]	16713

Custom Map Viewer

- purpose
- partners
- web-based map viewer
  - statewide data
  - regional data
  - tools
- examples
  - looking for opportunities
  - regional priorities

Purpose

- Inventory of lands managed for conservation and open space
- Conservation planning priorities and focus
- Support decisions
- Widespread access to interactive maps

Partners

- Clean Water Management Trust Fund
- One North Carolina Naturally
- Carolina Environmental Program
- Center for Geographic Information & Analysis
- Lead Regional Organizations

Map Viewer

- free, statewide resource
- web-based map viewer
- decision support tool with geospatial data as the hub
- framework for discovering, communicating and maintaining information

Promoting the conservation of North Carolina's Natural Resources

cleanwater
MANAGEMENT TRUST FUND

Go To Map Viewer

Map Viewer Help

ONCN

About Us

CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS
North Carolina
CGIA

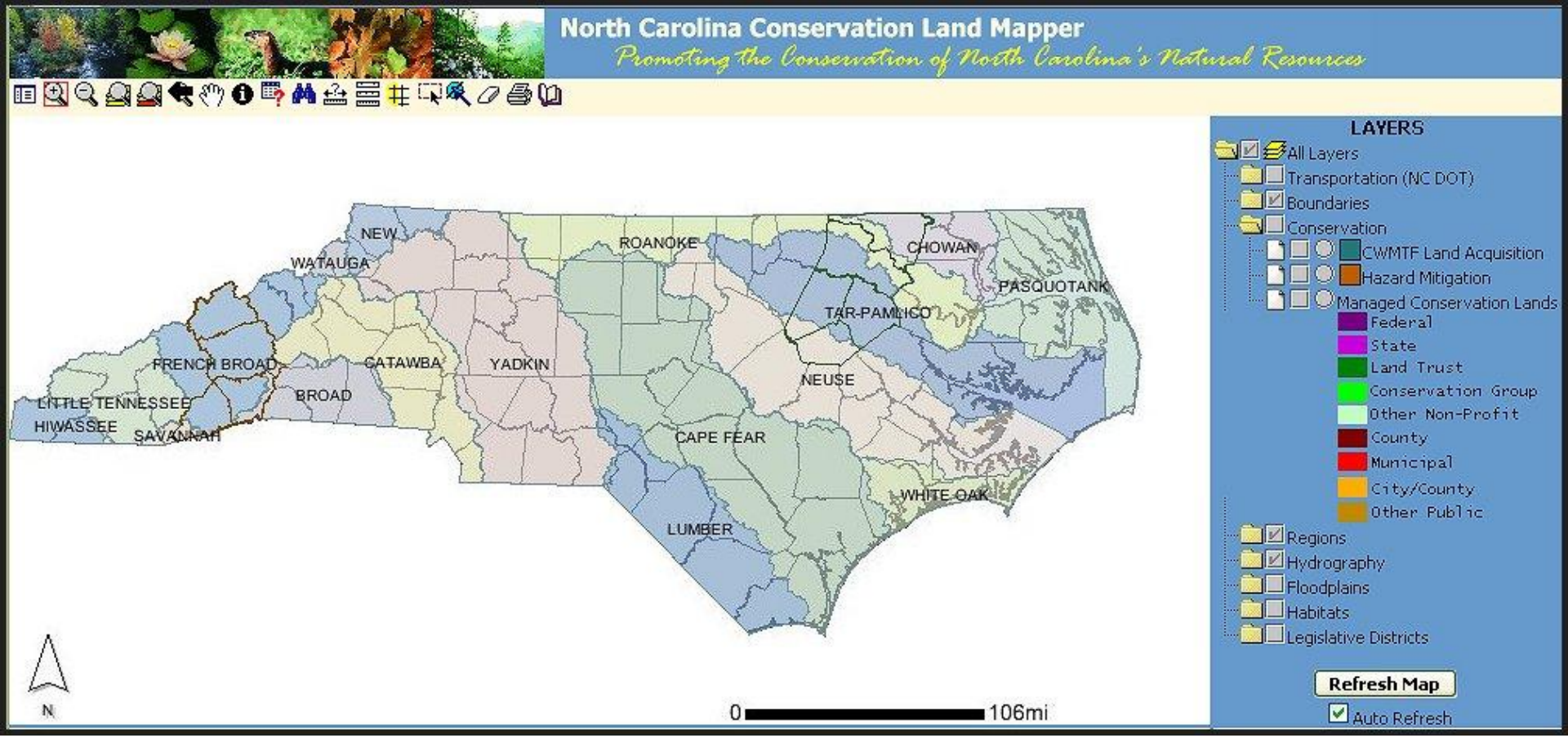
Clean Water Management Trust Fund, One NC Naturally, and the Carolina Environmental Program: Diverse Agencies With Common Goals.

The One NC Naturally Program's mission is to lead in developing and implementing a comprehensive statewide conservation plan that involves the public, governmental agencies, private organizations, and landowners. ONCN's mandate is to maintain functional ecosystems, biological diversity and working landscapes through the stewardship of land and water resources, and to implement a plan that will conserve and restore the state's natural heritage and sustain a healthy life for all North Carolinians and visitors.

The Carolina Environmental Program's threefold mission is to act as the public face of all environmental programs on the UNC Chapel Hill campus, bring various programs together to tackle interdisciplinary environmental problems, and to create new interdisciplinary areas of study.

The Clean Water Management Trust Fund was established in 1996 to help finance projects that enhance or restore degraded waters, protect unpolluted waters, and/or contribute toward a network of riparian buffers and greenways. CWMTF estimates that more than $10.5 billion is needed to protect and restore water quality in North Carolina.

This online mapping viewer and database system will enable partners to track existing properties and target new ones for permanent preservation.


North Carolina Conservation Land Mapper
Promoting the Conservation of North Carolina's Natural Resources
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WATAUGA
ROANOKE
CHOWAN
PASQUOTANK
TAR-PAMLICO
FRENCH BROAD
CATAWBA
YADKIN
NEUSE
BROAD
LITTLE TENNESSEE
HIWASSEE
SAVANNAH
CAPE FEAR
WHITE OAK
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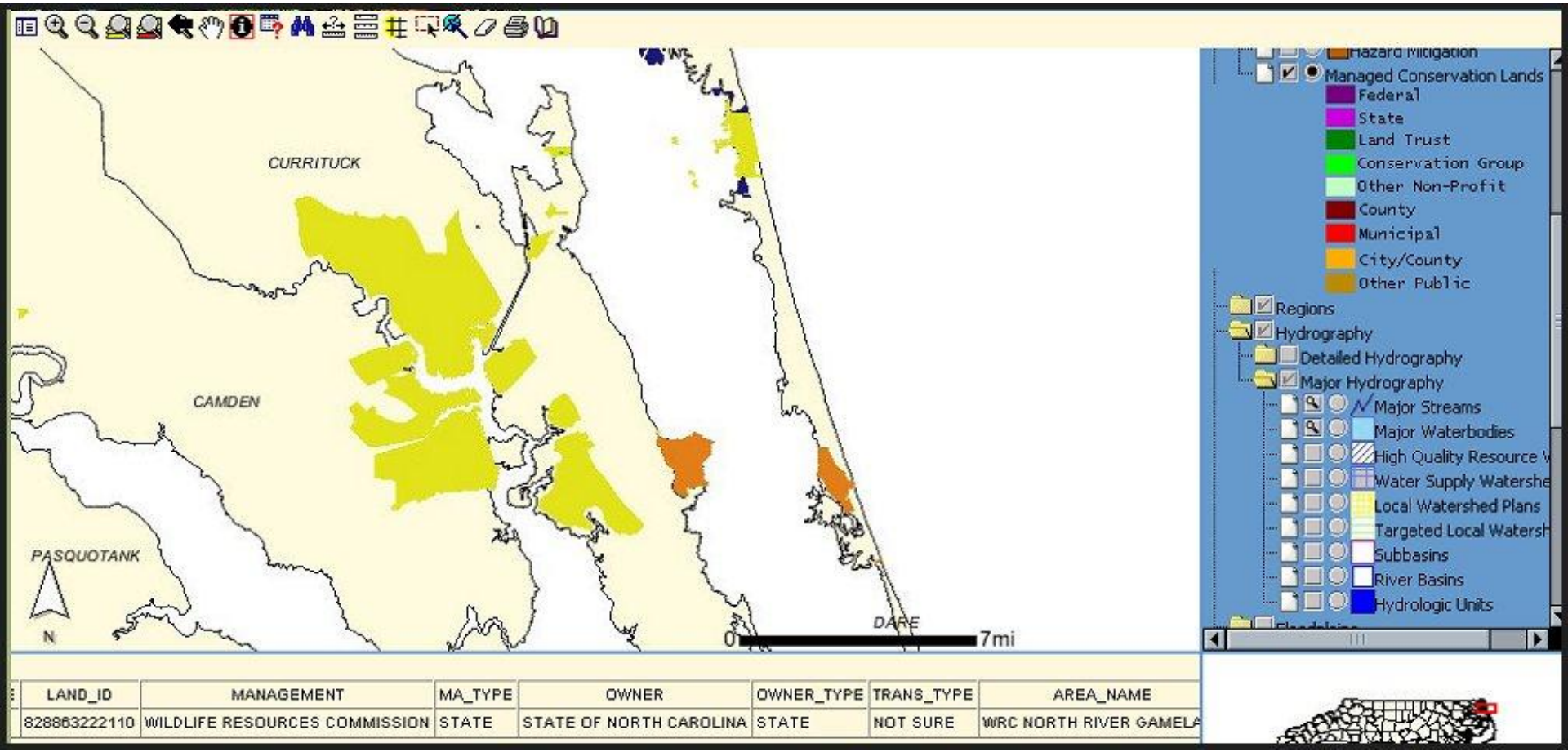
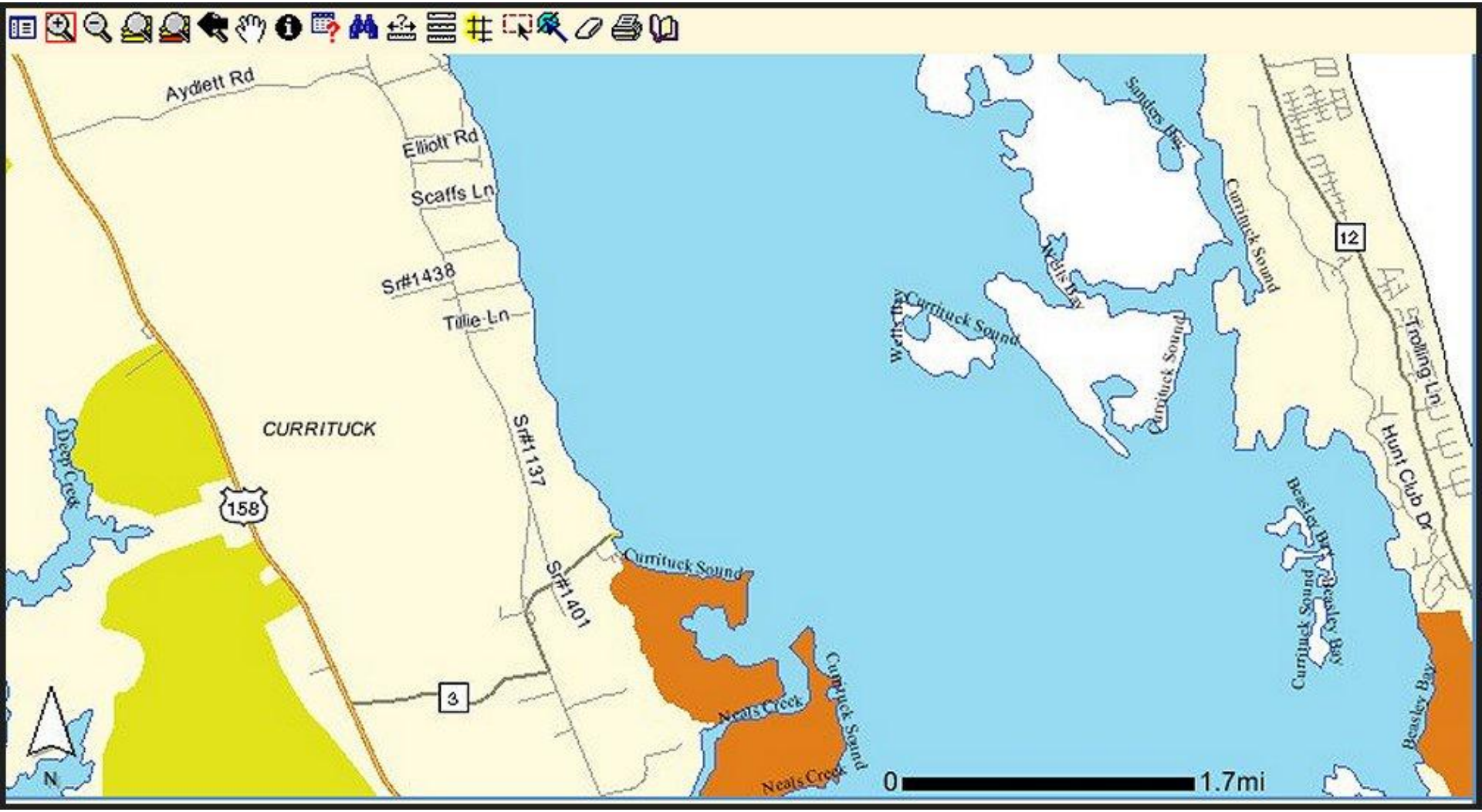
All Layers
Transportation (NC DOT)
Boundaries
Conservation
CWMTF Land Acquisition
Hazard Mitigation
Managed Conservation Lands
Federal
State
Land Trust
Conservation Group
Other Non-Profit
County
Municipal
City/County
Other Public
Regions
Hydrography
Floodplains
Habitats
Legislative Districts
Refresh Map
Auto Refresh



LAND_ID	MANAGEMENT	MA_TYPE	OWNER	OWNER_TYPE	TRANS_TYPE	AREA_NAME
828863222110	WILDLIFE RESOURCES COMMISSION	STATE	STATE OF NORTH CAROLINA	STATE	NOT SURE	WRC NORTH RIVER GAMELA


Aydlett Rd
Elliott Rd
Scaffs Ln
Sr#1438
Tillie Ln
CURRITUCK
Deep Creek
158
Sr#1137
Sr#1401
3
Currituck Sound
Neals Creek
Currituck Sound
Neals Creek
Sanders Bay
Currituck Sound
Wells Bay
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Trolling Ln
Hunt Club Dr
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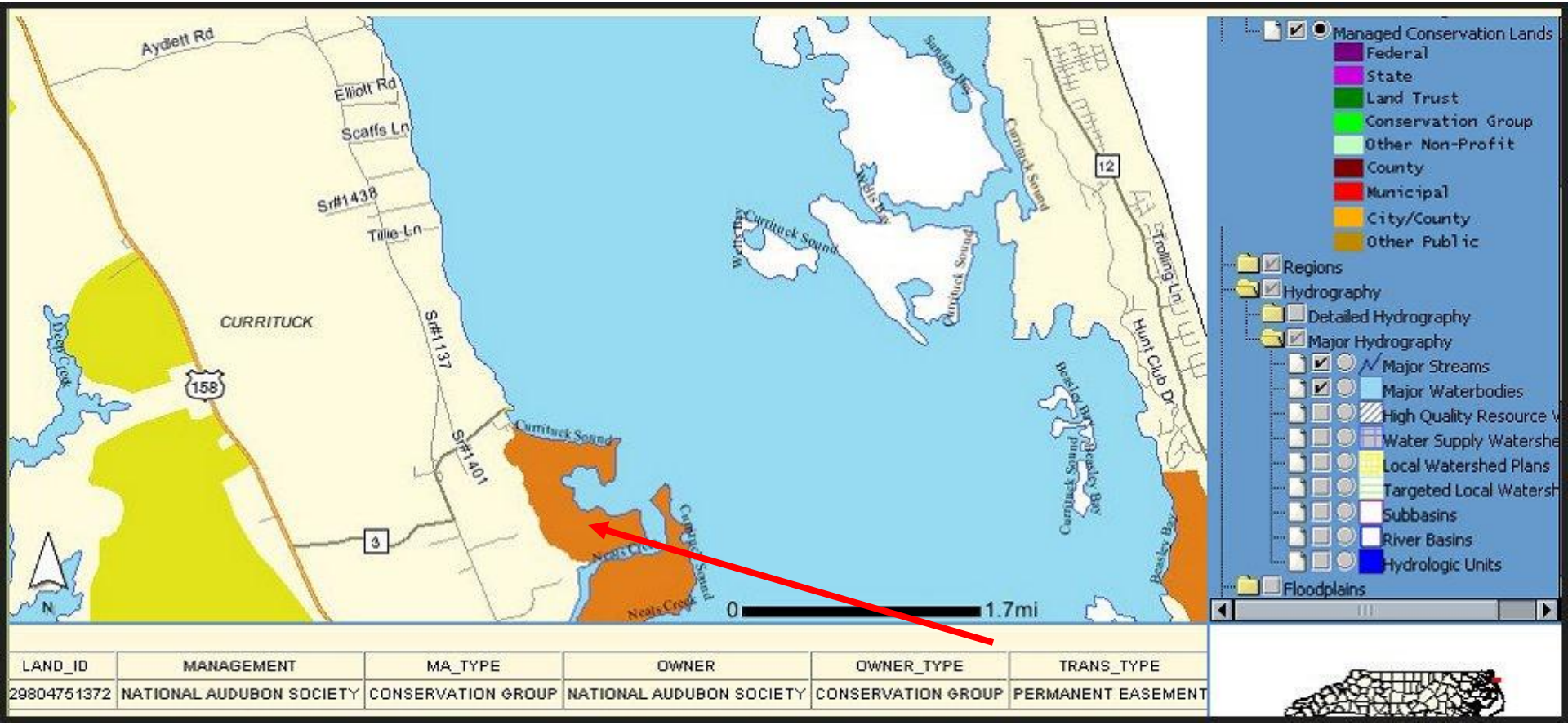
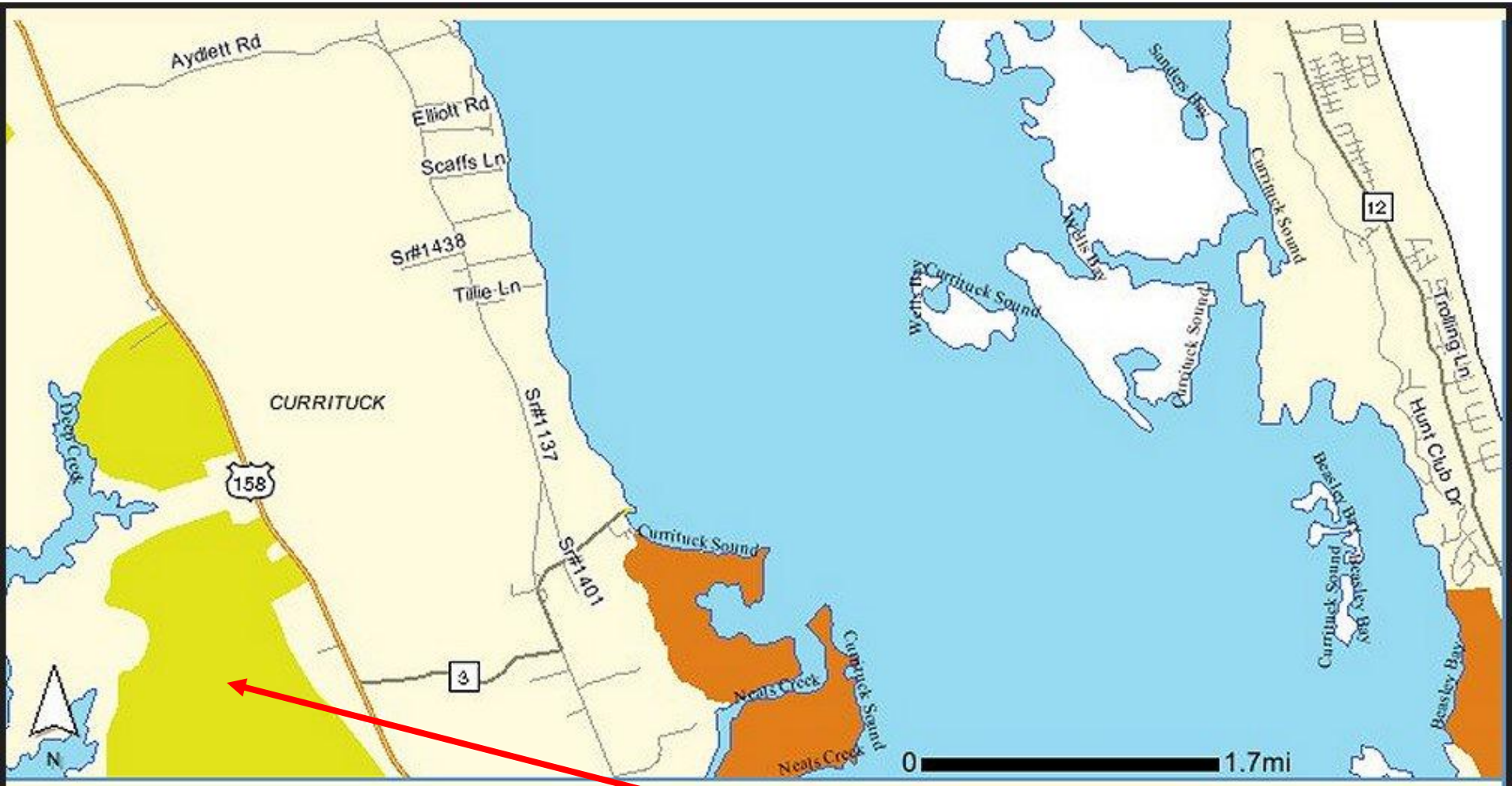


LAND_ID	MANAGEMENT	MA_TYPE	OWNER	OWNER_TYPE	TRANS_TYPE
29804751372	NATIONAL AUDUBON SOCIETY	CONSERVATION GROUP	NATIONAL AUDUBON SOCIETY	CONSERVATION GROUP	PERMANENT EASEMENT



LAND_ID	MANAGEMENT	MA_TYPE	OWNER	OWNER_TYPE	TRANS_TYPE	AREA_NAME
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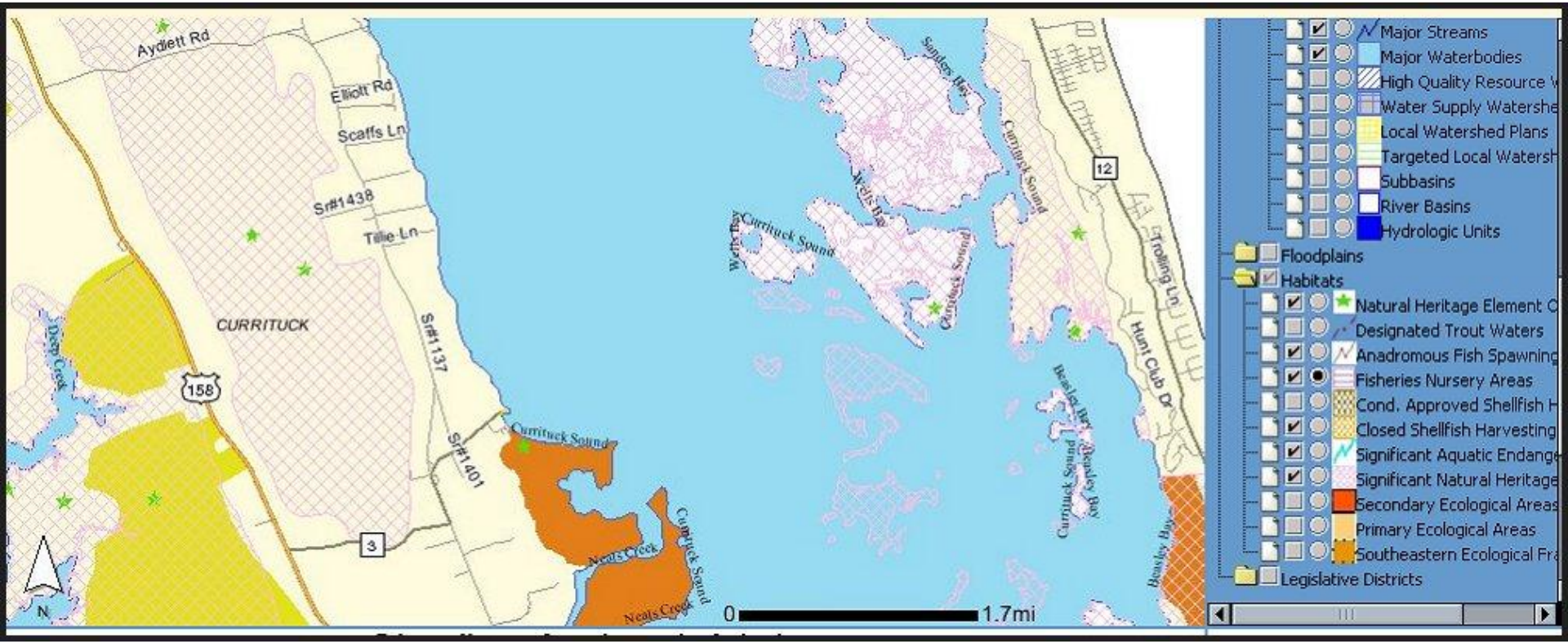
Aydlett Rd
Elliott Rd
Scaffs Ln
Sr#1438
Tillie Ln
CURRITUCK
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Sr#1137
Sr#1401
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Currituck Sound
Neals Creek
Currituck Sound
Sanders Bay
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Major Waterbodies
High Quality Resource
Water Supply Watershe
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Subbasins
River Basins
Hydrologic Units
Floodplains
Habitats
Natural Heritage Element
Designated Trout Waters
Anadromous Fish Spawning
Fisheries Nursery Areas
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Closed Shellfish Harvesting
Significant Aquatic Endange
Significant Natural Heritage
Secondary Ecological Areas
Primary Ecological Areas
Southeastern Ecological Fra
Legislative Districts

Sr#1438
Tillie Ln
Currituck Sound
Sr#1137
Aydlett Rd
Canoon Rd
CURRITUCK
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Dyer Creek
North River
North River
North River
Neals Creek
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Status

- Map viewer in progress
- Feedback needed
- Data entry tool under development
- Table generator under development

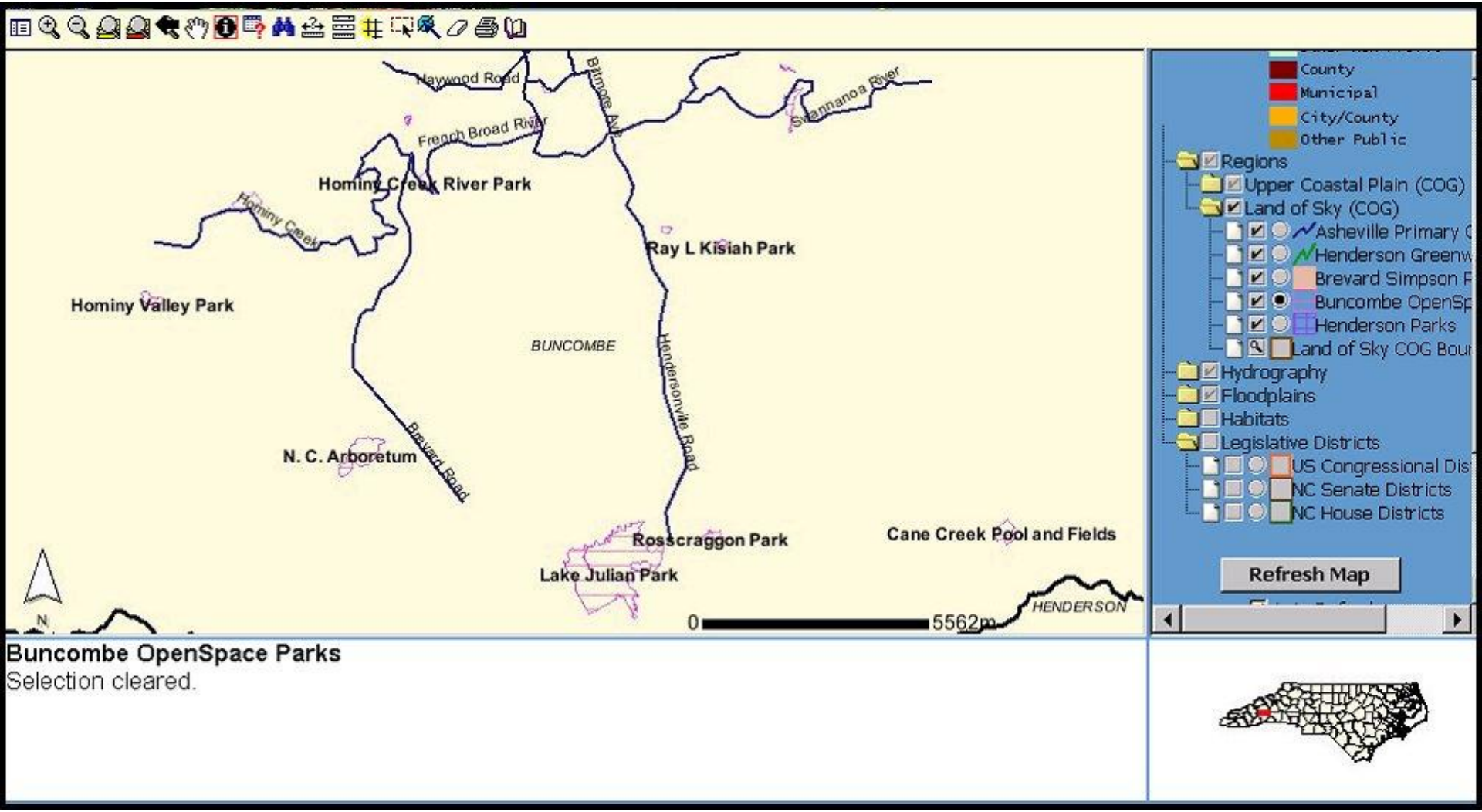
Integration with NC OneMap

- Imagery and more
- Local data streaming in
- More functions
- Other “topical viewers” likely

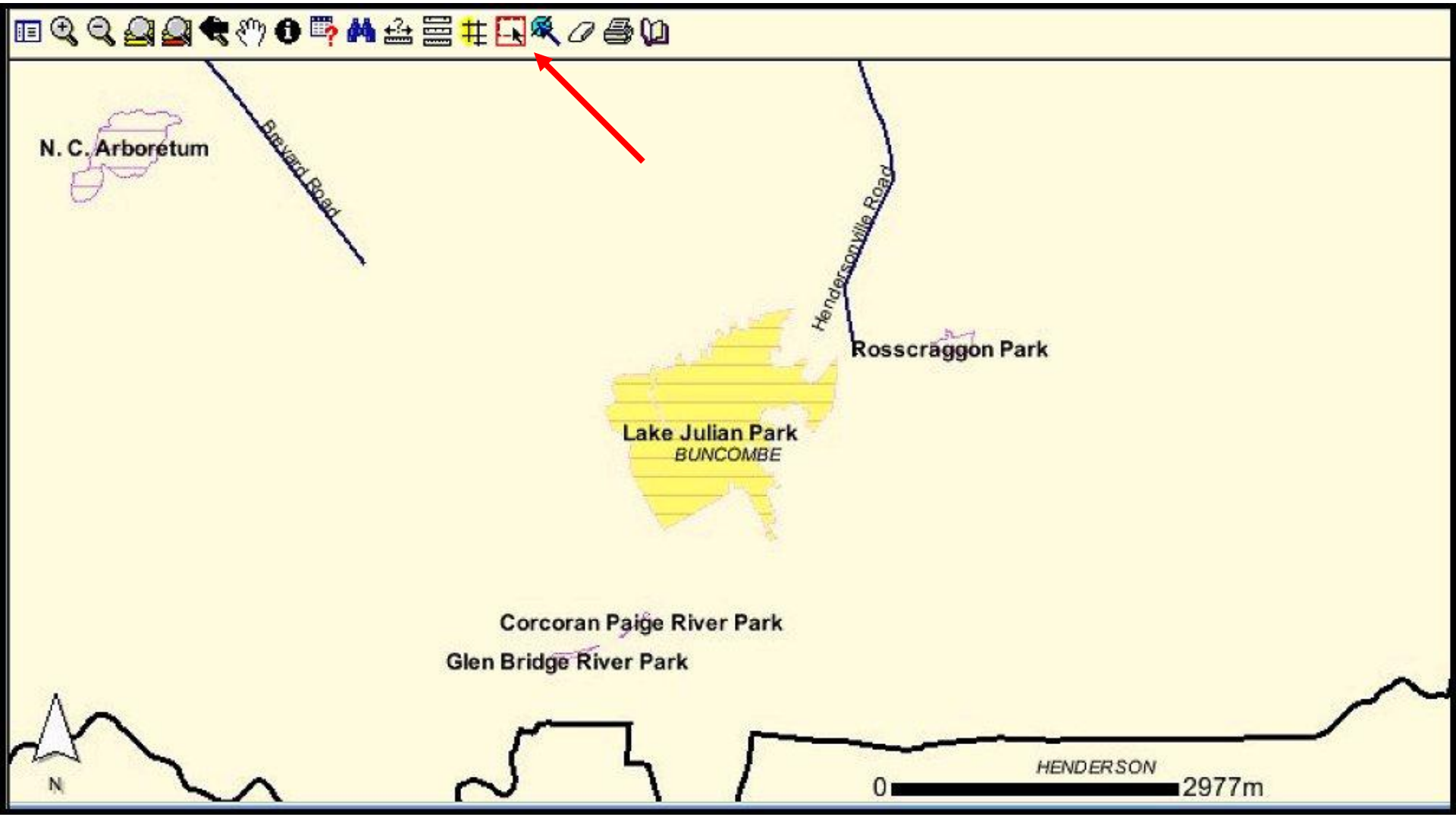
Regional data examples

- Land-of-Sky Council of Governments—highlighting open space

- Upper Coastal Plain Council of Governments—connections and future focus



Southern Buncombe County Parks and Greenways



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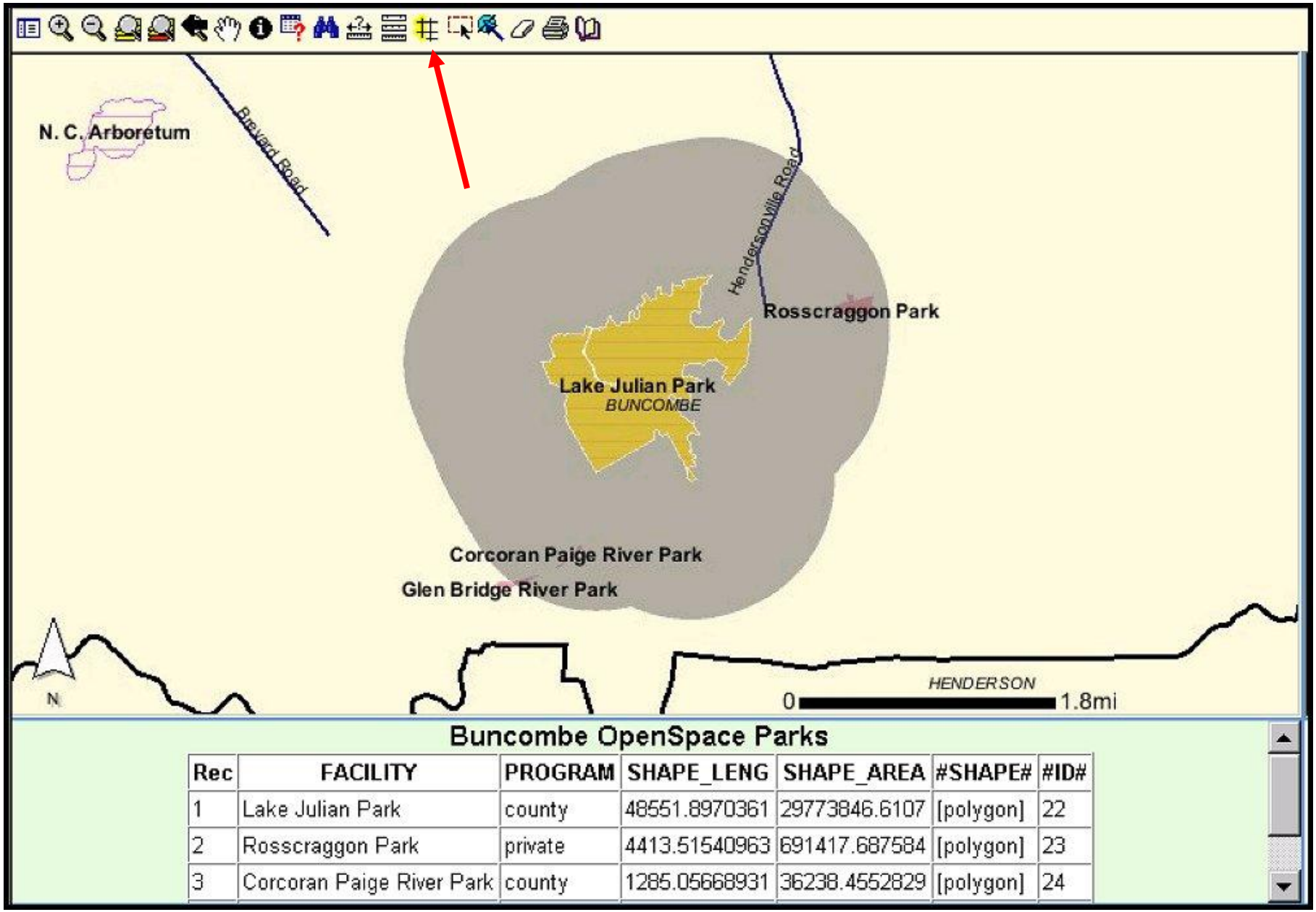
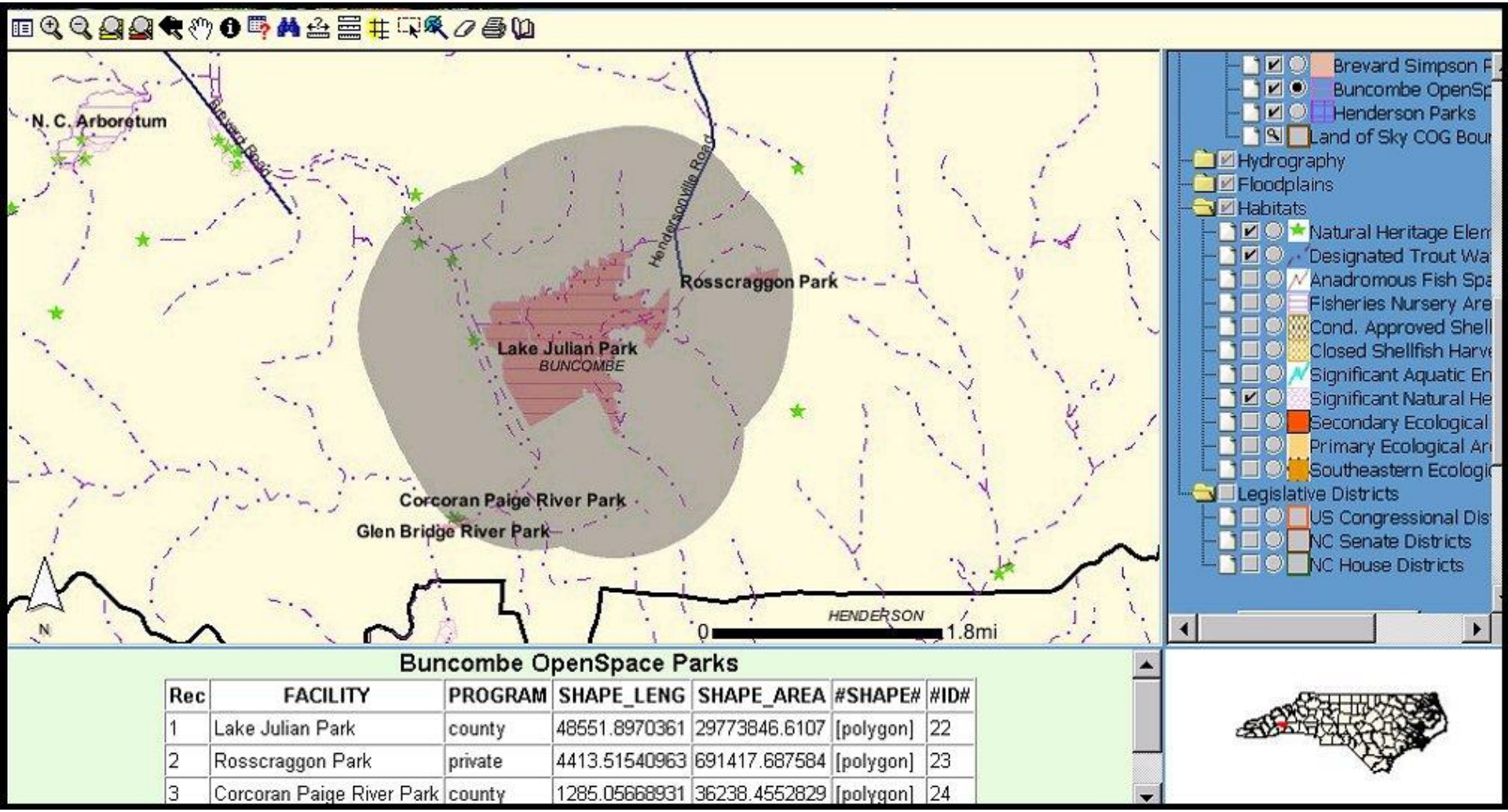


Buncombe OpenSpace Parks

Rec	FACILITY	PROGRAM	SHAPE_LENG	SHAPE_AREA	#SHAPE#	#ID#
1	Lake Julian Park	county	48551.8970361	29773846.6107	[polygon]	22
2	Rosscraggon Park	private	4413.51540963	691417.687584	[polygon]	23
3	Corcoran Paige River Park	county	1285.05668931	36238.4552829	[polygon]	24

Parks within 1 mile of selected park



Buncombe OpenSpace Parks

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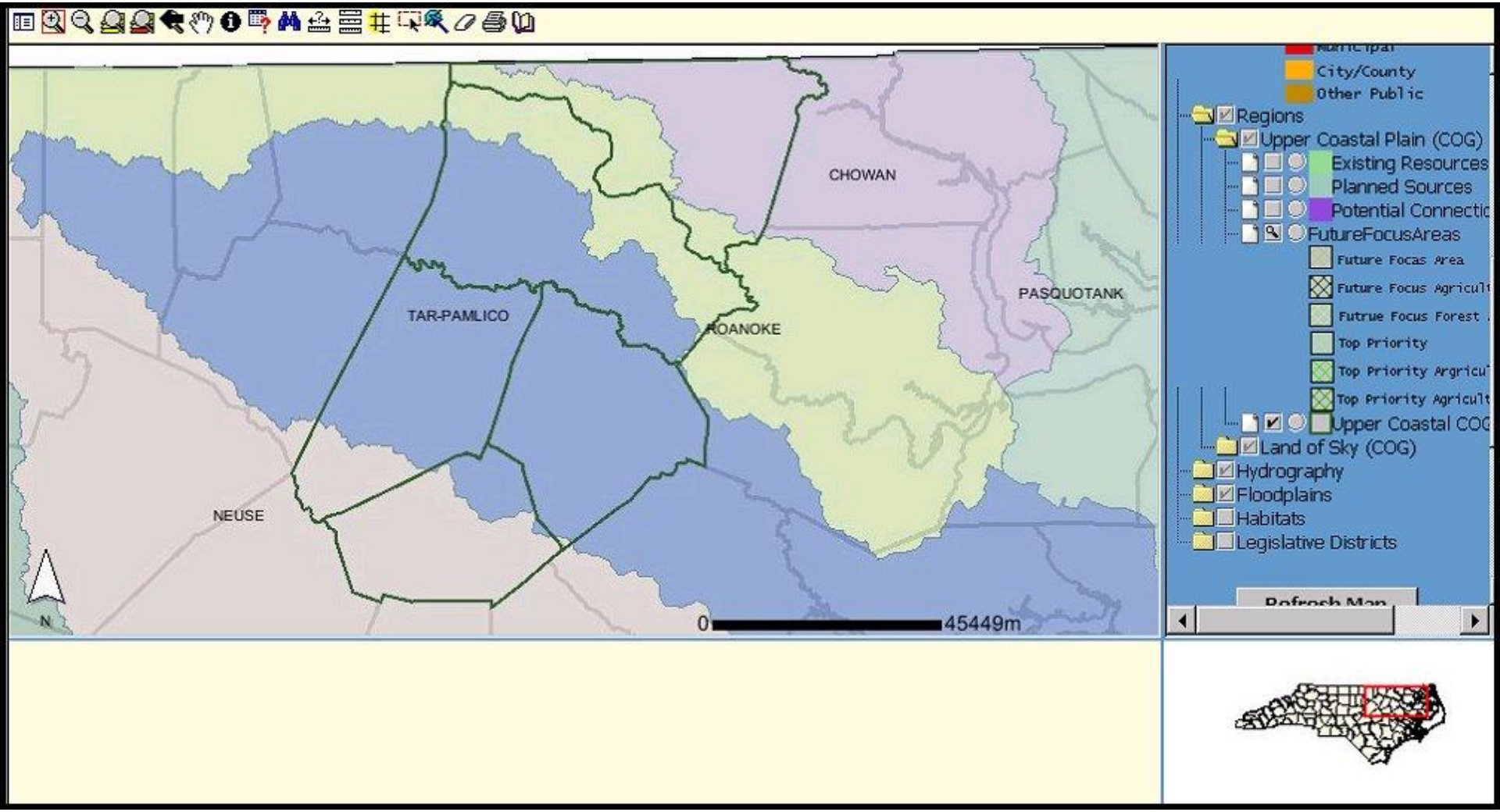
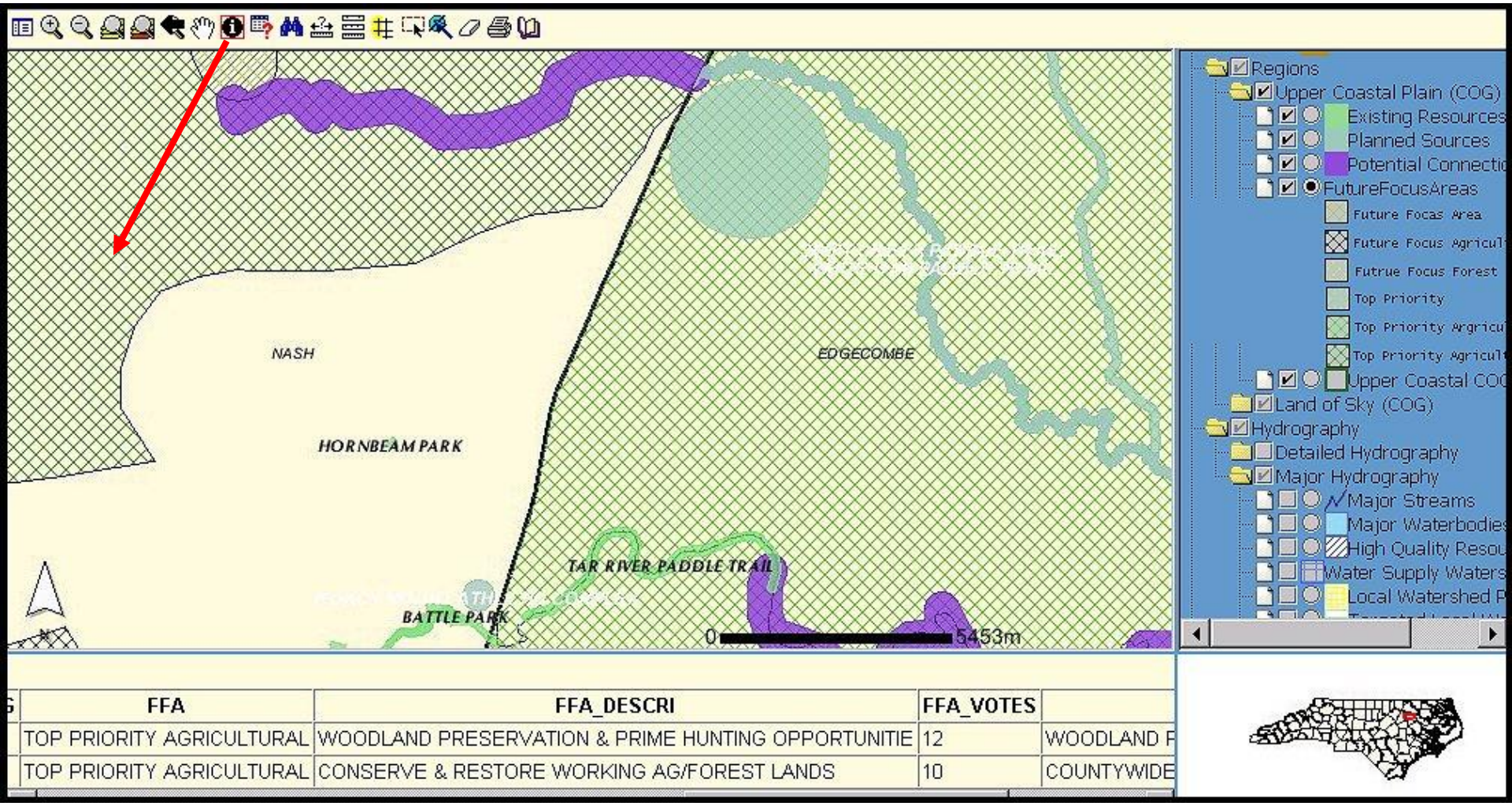
3	Corcoran Paige River Park	county	1285.05668931	36238.4552829	[polygon]	24

Habitat features in the vicinity

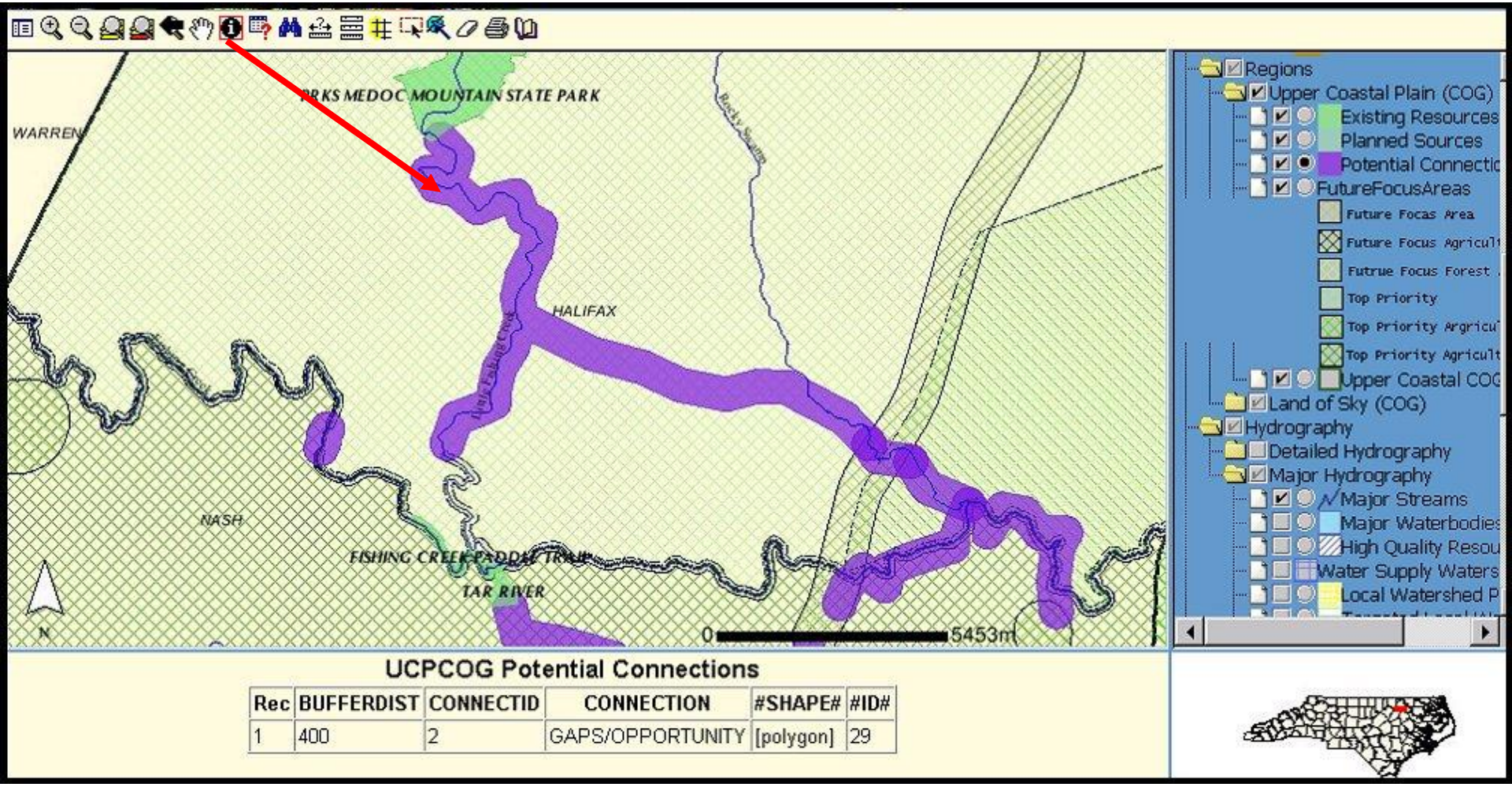


Upper Coastal Plain Council of Governments



FFA	FFA_DESCRI	FFA_VOTES	
TOP PRIORITY AGRICULTURAL	WOODLAND PRESERVATION & PRIME HUNTING OPPORTUNITIE	12	WOODLAND F
TOP PRIORITY AGRICULTURAL	CONSERVE & RESTORE WORKING AG/FOREST LANDS	10	COUNTYWIDE

Existing, planned and potential areas



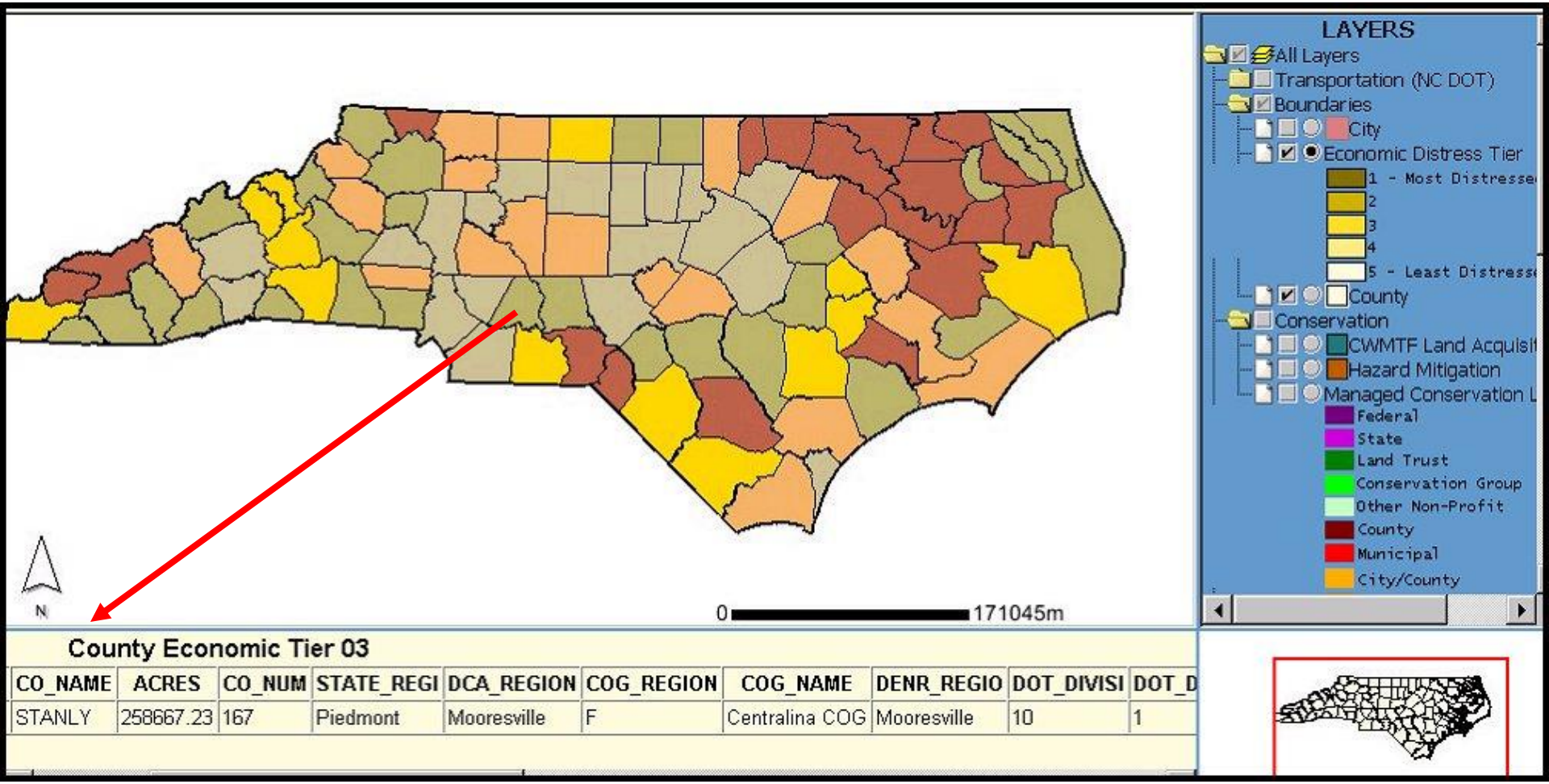
UCPCOG Potential Connections

Rec	BUFFERDIST	CONNECTID	CONNECTION	#SHAPE#	#ID#
1	400	2	GAPS/OPPORTUNITY	[polygon]	29

Potential connections

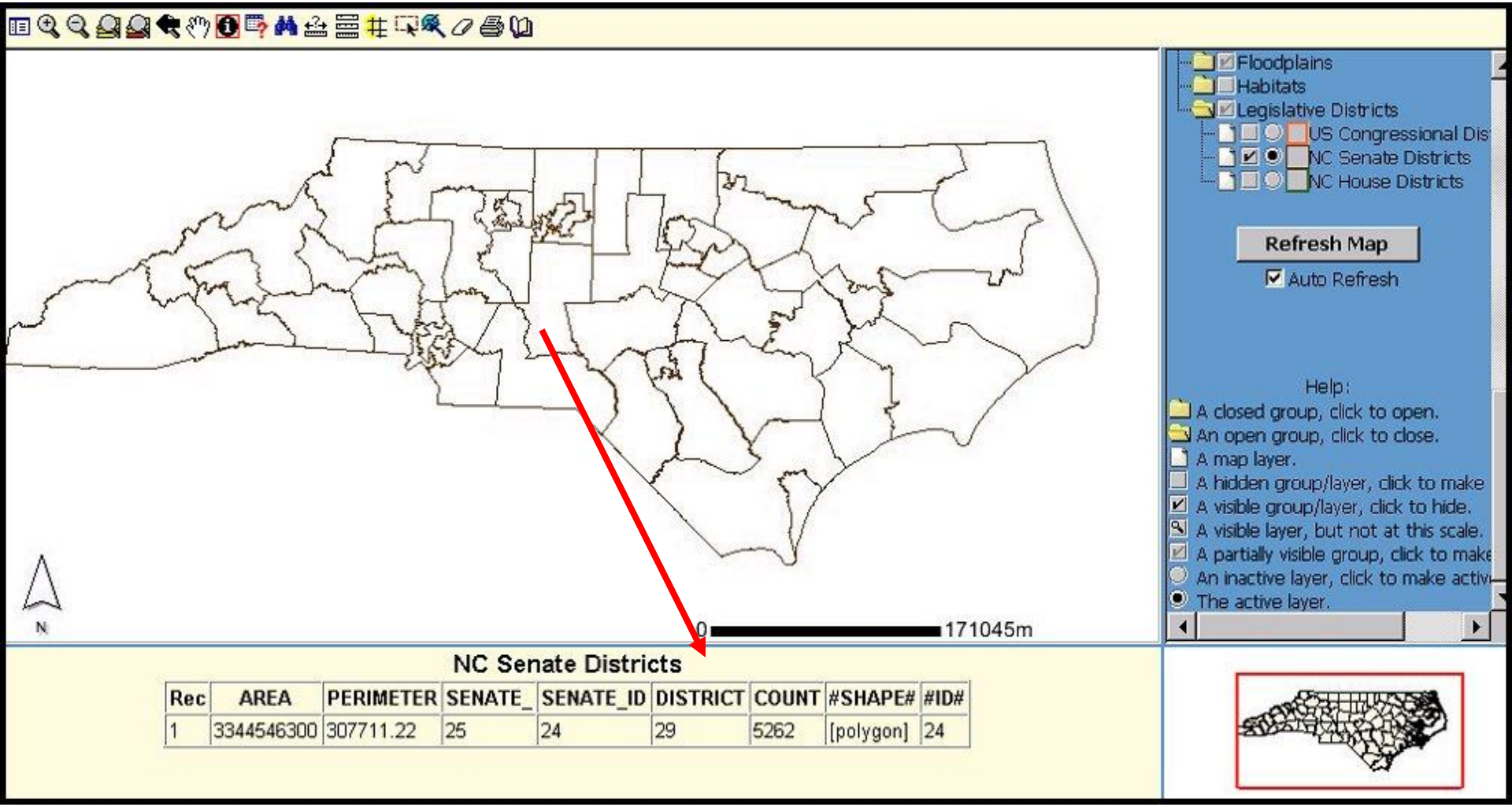
Other data in Map Viewer

- County boundaries with economic distress tiers
- Legislative districts
- Southeastern Ecological Framework



County Economic Tier 03

CO_NAME	ACRES	CO_NUM	STATE_REGI	DCA_REGION	COG_REGION	COG_NAME	DENR_REGIO	DOT_DIVISI	DOT_D
STANLY	258667.23	167	Piedmont	Mooresville	F	Centralina COG	Mooresville	10	1



NC Senate Districts

Rec	AREA	PERIMETER	SENATE_	SENATE_ID	DISTRICT	COUNT	#SHAPE#	#ID#
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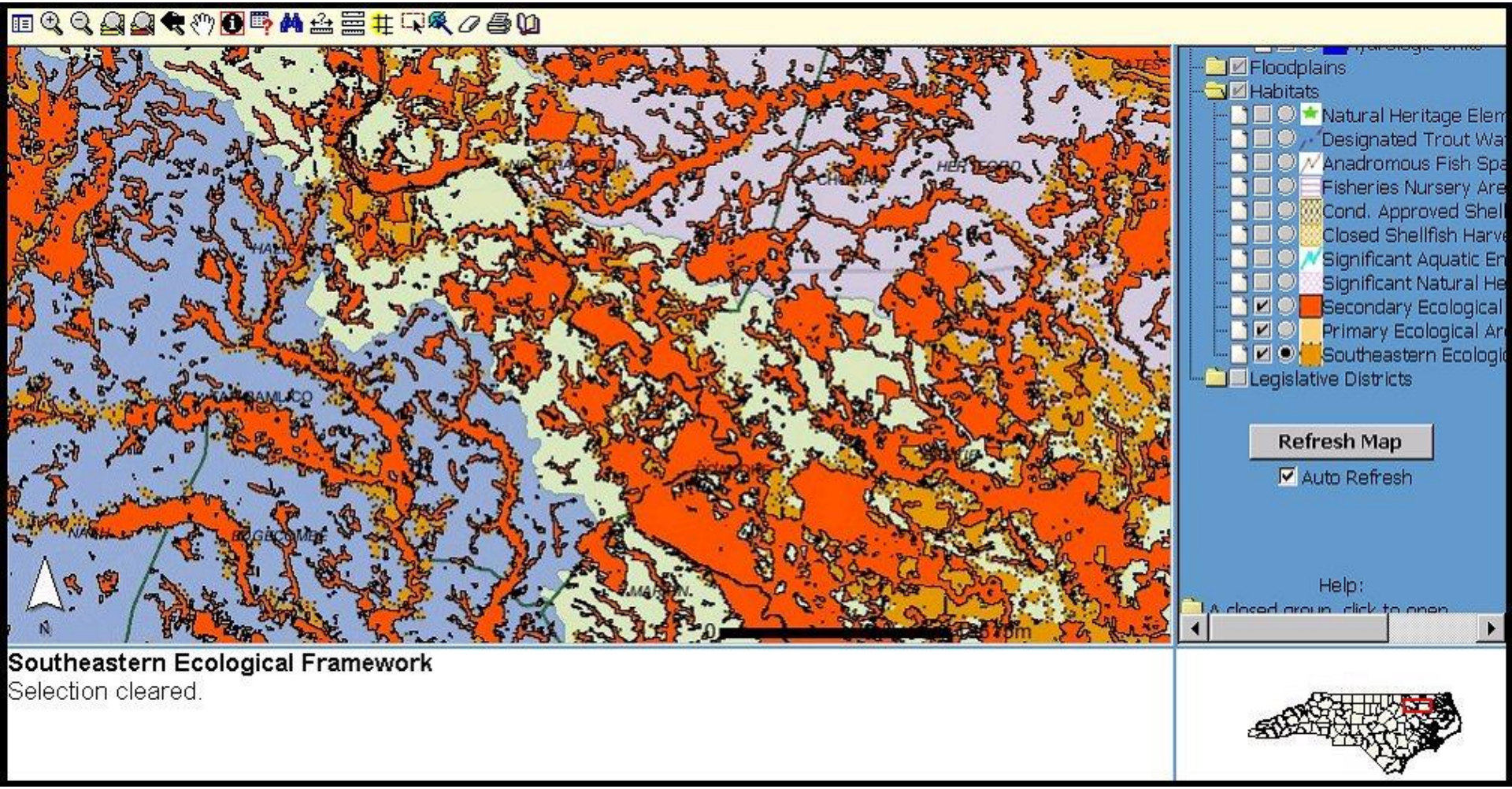


Southeastern Ecological Framework

Selection cleared.

Links to more information

- One North Carolina Naturally
- Carolina Environmental Program
- Clean Water Management Trust Fund

North Carolina Department of Environment and Natural Resources

One North Carolina Naturally

Office of Conservation & Community Affairs

Mission | Contact Us | DENR Home | NC Gov.com

Conservation Links

Impact Facts

Video

Documents

Program Areas

One NC Draft Plan

Regional Planning Efforts
Survey Results

Map

Summer Newsletter

Register for Regional Meetings

NCDENR The Office of Conservation & Community Affairs / 1601 Mail Service Center / Raleigh, North Carolina 27699-1601

Disclaimer/Privacy

One NorthCarolina *Naturally*

GIS MAPPING TOOL

A state-wide, online GIS mapping tool for beginners and experts interested in regional land conservation

DECISION SUPPORT

Help with answering tough questions about land conservation goals, environmentally-relevant topics, and other important considerations

HELP

The basics about Geographic Information Systems (GIS), learning how to use the online GIS Mapping Tool, making the GIS Mapping Tool work for you, and troubleshooting

CONTACT

Contact information for One North Carolina Naturally project partners

FEEDBACK

Help us make this site more useful to you

LINKS

Useful links to a variety of helpful,

North Carolina Clean Water Management Trust Fund

cleanwater MANAGEMENT TRUST FUND

Home | Meetings Calendar/Board Actions | Staff Directory | Contact CWMTF | Search

Quick Links

- CWMTF Trustees meet Oct. 10-11 in Raleigh (Agenda) (Project Scopes of Work) (News Release)
- Clean Water Management Trust Fund Board Presents Conservation Award to Senator Kerr Sunday, September 12 in Kinston
- General Assembly's Budget Includes $62 Million for CWMTF;

Created in 1996, the Clean Water Management Trust Fund makes grants to local governments, state agencies and conservation non-profits to help finance projects that specifically address water pollution problems.

About CWMTF
CWMTF and Local Governments: A Valuable Resource
Fact Sheet
Our Mission, Enabling Legislation, Field Offices, Board of Trustees, Job Listings, Directions to CWMTF Office, Mailing Address

CWMTF Projects/Places

Lake James State Park Expansion Announced
Photo Gallery
Project Map

What do we have?

- NC OneMap in progress
- Map viewer in progress
- Regional data
  - inventories
  - plans
- Framework for maintenance and decision support

Benefits of ONCN Tools

- Common framework for planners, grant applicants and grant awarders
- Easier access to data for addressing local, regional, and statewide issues
- Spend your time discovering, analyzing, planning and making maps

Support and Leverage NC OneMap

- Cost savings in data collection through regional and statewide approaches
- Data consistency across jurisdictions
- Much easier access to data for addressing local, regional, and statewide issues

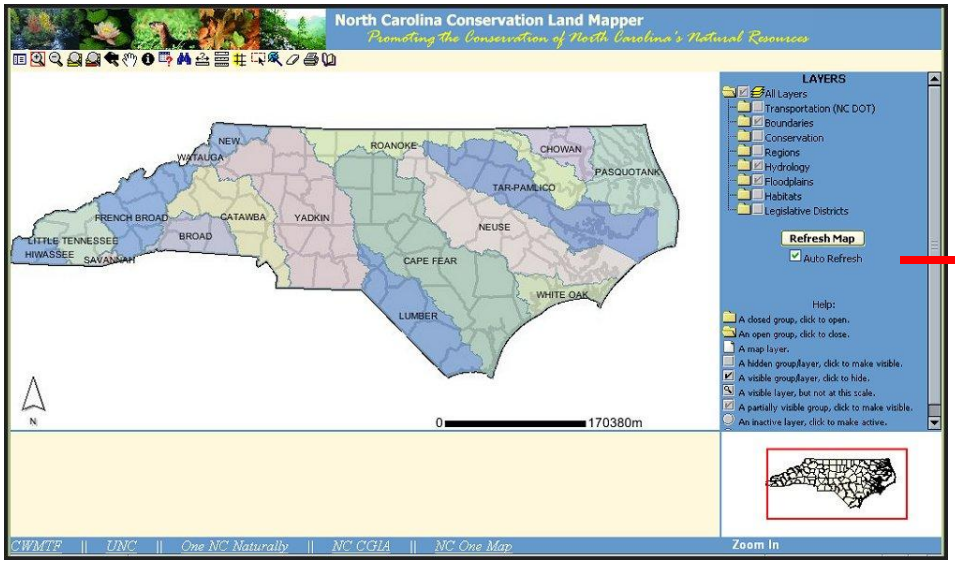
ONCN Map Viewer

- Questions?
- Suggestions?
- Opportunities?

Thank you!

jeffrey.p.brown@ncmail.net
919-733-2090

www.nconemap.net


North Carolina Conservation Land Mapper
Promoting the Conservation of North Carolina's Natural Resources
LAYERS
All Layers
Transportation (NC DOT)
Boundaries
Conservation
Regions
Hydrology
Floodplains
Habitats
Legislative Districts
Refresh Map
Auto Refresh
Help:
A closed group, click to open.
An open group, click to close.
A map layer.
A hidden group/layer, click to make visible.
A visible group/layer, click to hide.
A visible layer, but not at this scale.
A partially visible group, click to make visible.
An inactive layer, click to make active.
NEW
WATAUGA
ROANOKE
CHOWAN
PASQUOTANK
TAR-PAMLICO
FRENCH BROAD
CATAWBA
YADKIN
NEUSE
LITTLE TENNESSEE
HIWASSEE
BROAD
SAVANNAH
CAPE FEAR
WHITE OAK
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CWMTF || UNC || One NC Naturally || NC CGIA || NC One Map
Zoom In

LAYERS
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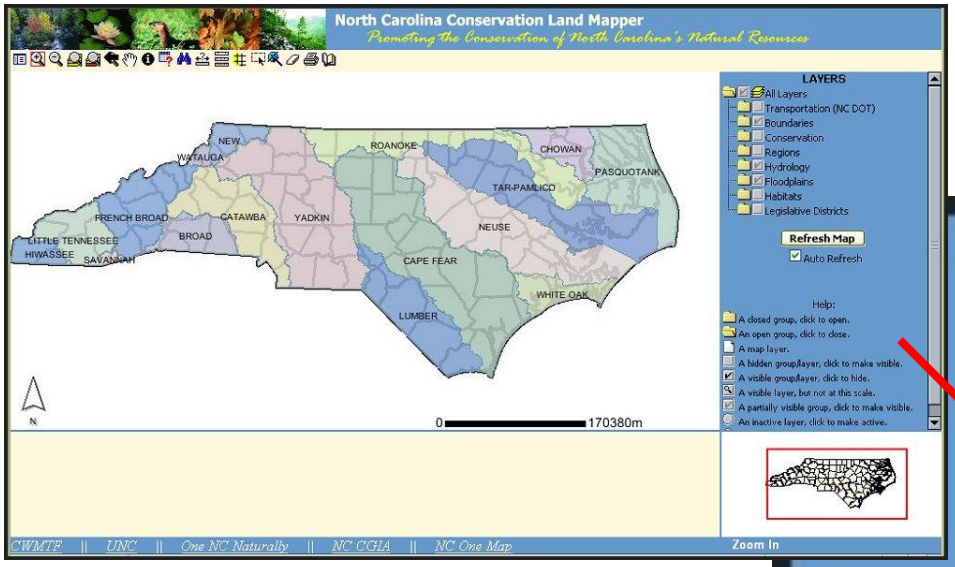
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A partially visible group, click to make visible.
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PASQUOTANK
TAR-PAMLICO
FRENCH BROAD
CATAWBA
YADKIN
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LITTLE TENNESSEE
HIWASSEE
BROAD
SAVANNAH
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WHITE OAK
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CWMTF || UNC || One NC Naturally || NC CGIA || NC One Map
Zoom In

Refresh Map
Auto Refresh
Help:
A closed group, click to open.
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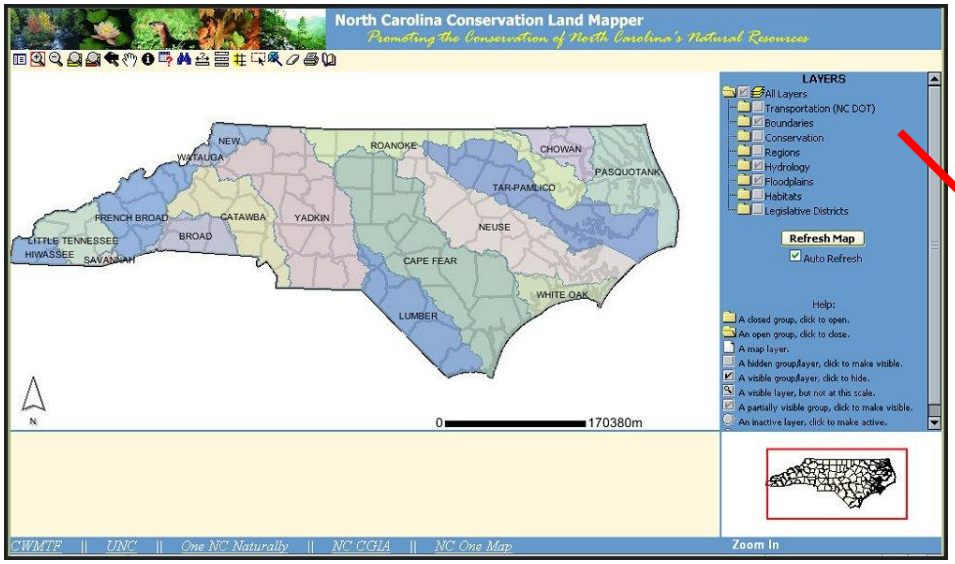
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Floodplains
Habitats
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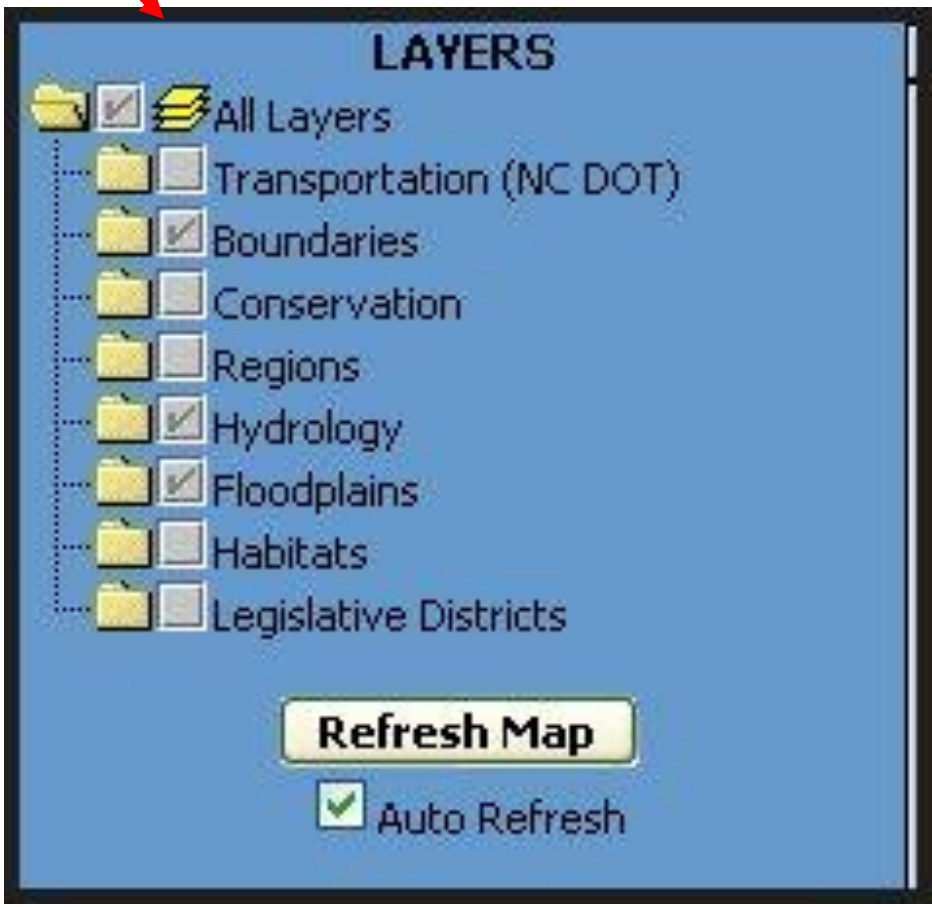
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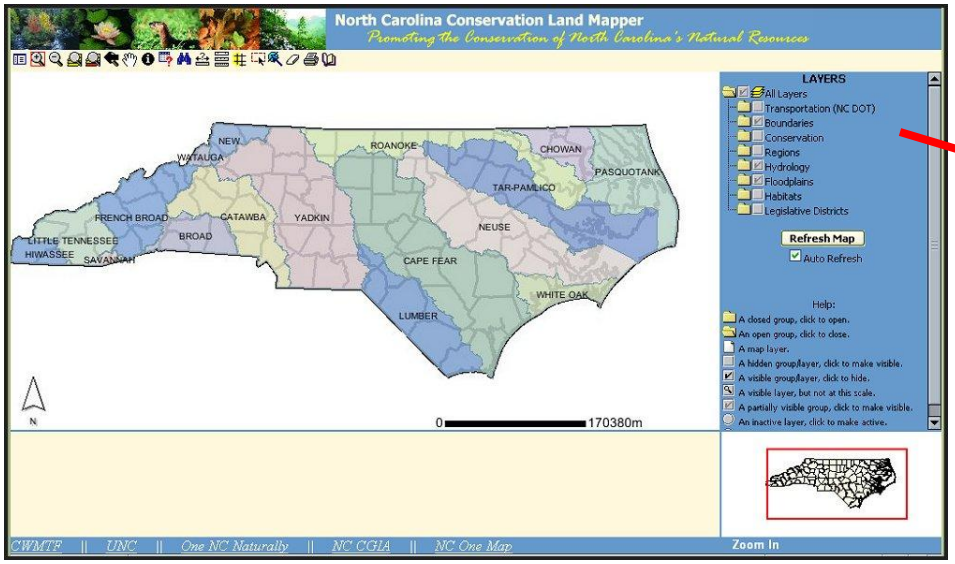
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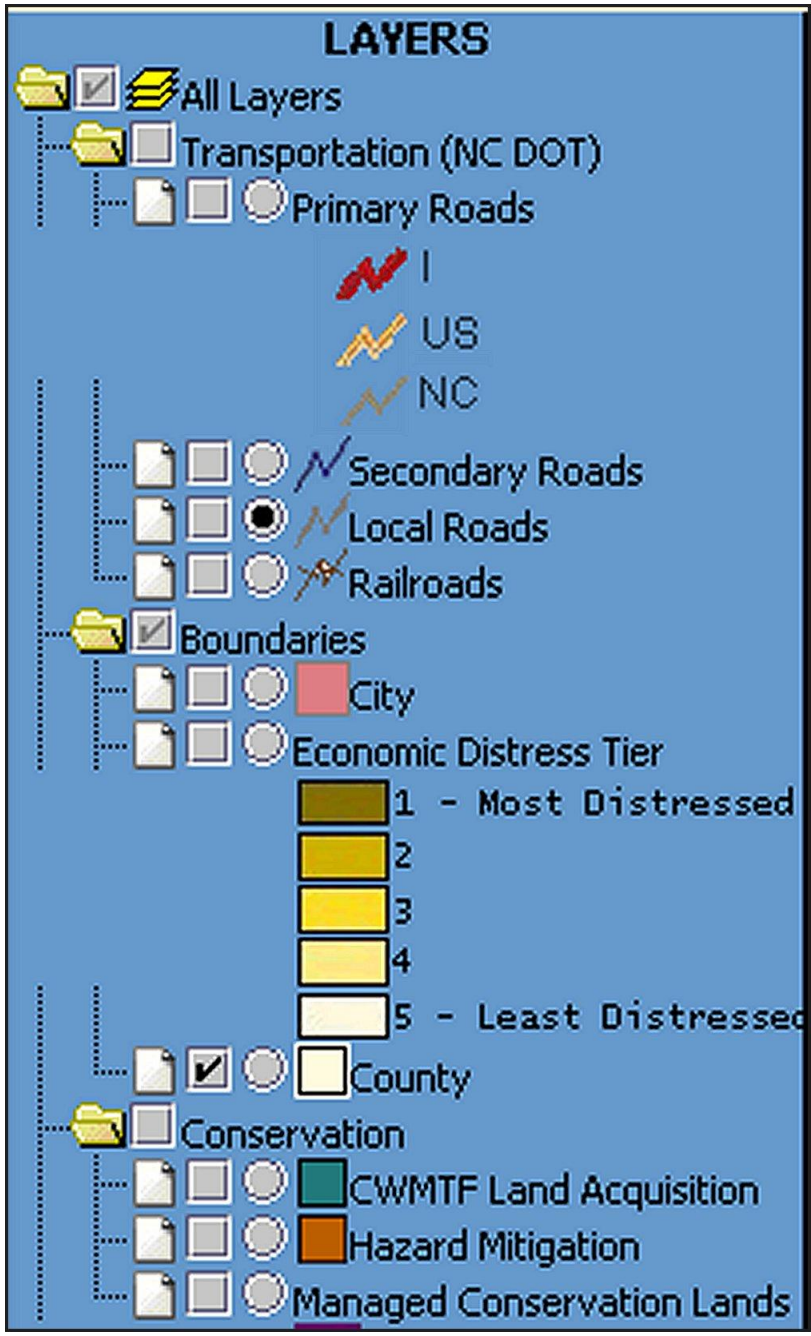
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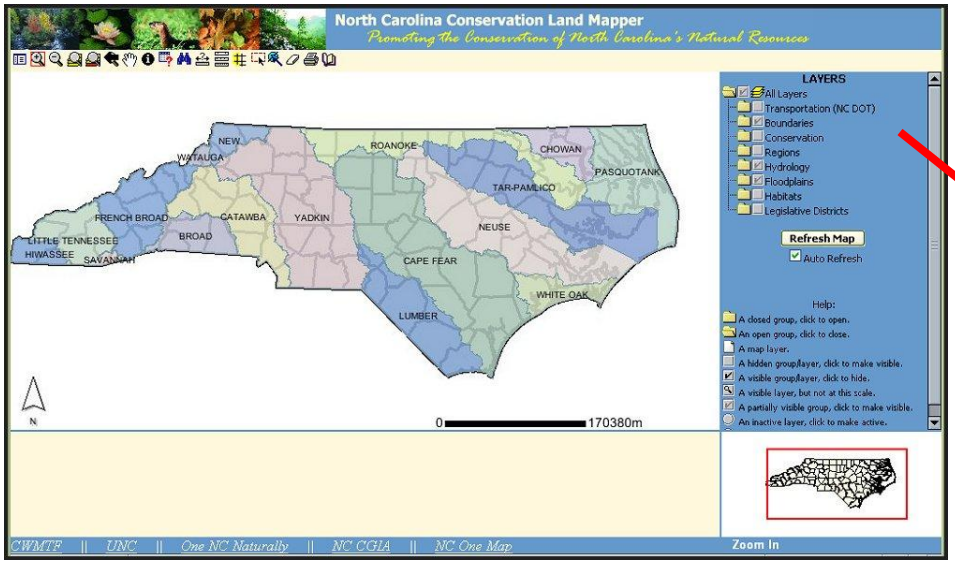
Primary Roads
I
US
NC
Secondary Roads
Local Roads
Railroads
Boundaries
City
Economic Distress Tier
1 - Most Distressed
2
3
4
5 - Least Distressed
County
Conservation
CWMTF Land Acquisition
Hazard Mitigation
Managed Conservation Lands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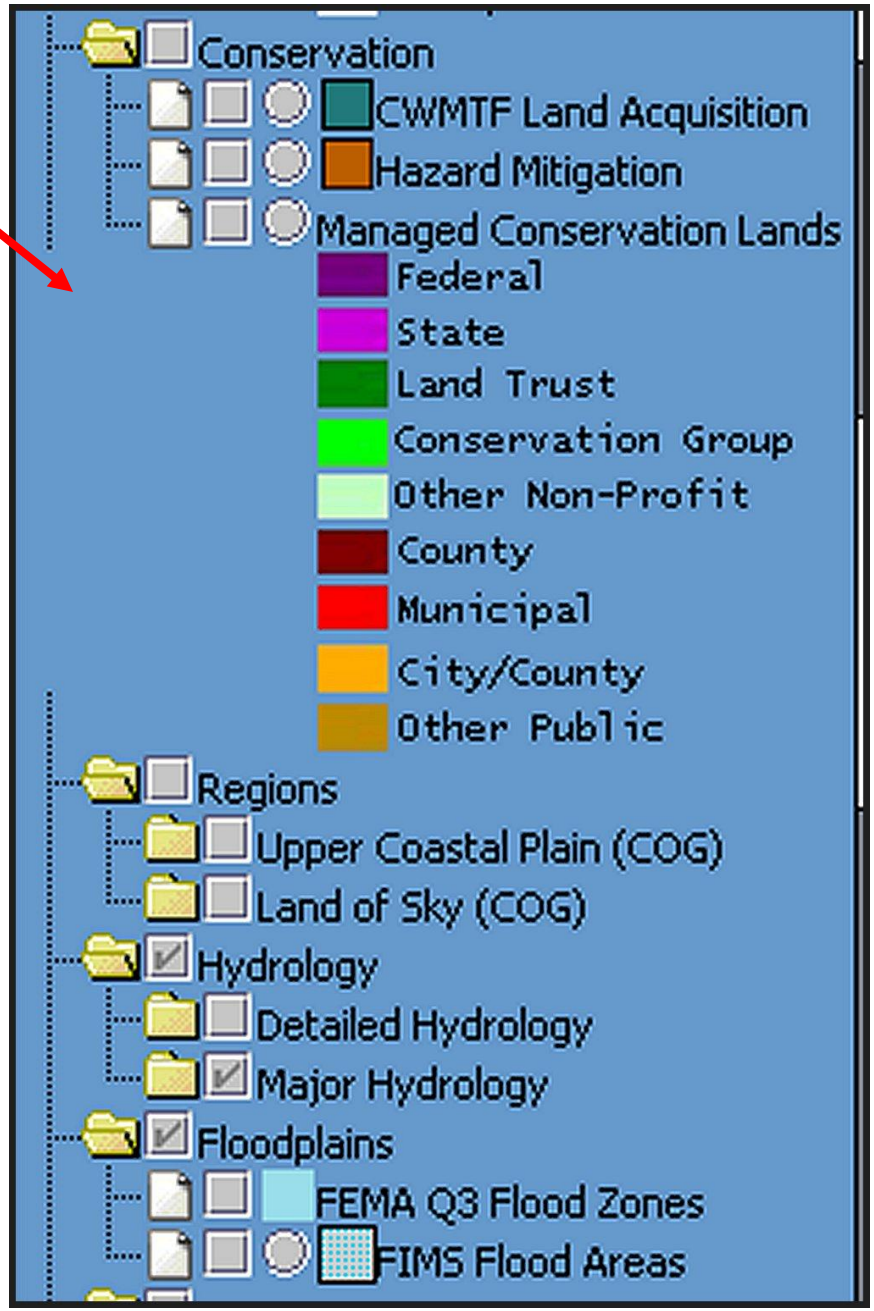
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Other Public
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Land of Sky (COG)
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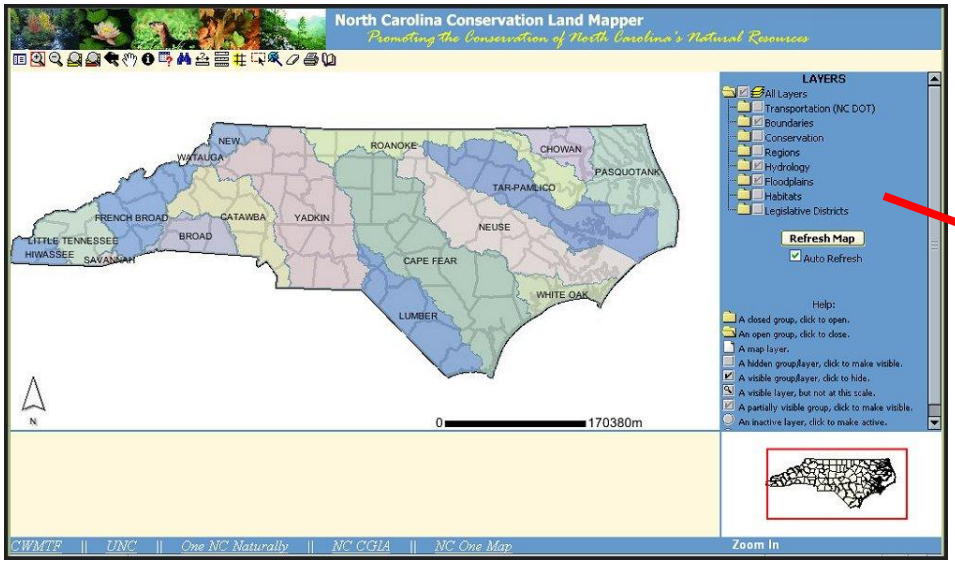
Detailed Hydrology
Major Hydrology
Floodplains
FEMA Q3 Flood Zones
FIMS Flood Areas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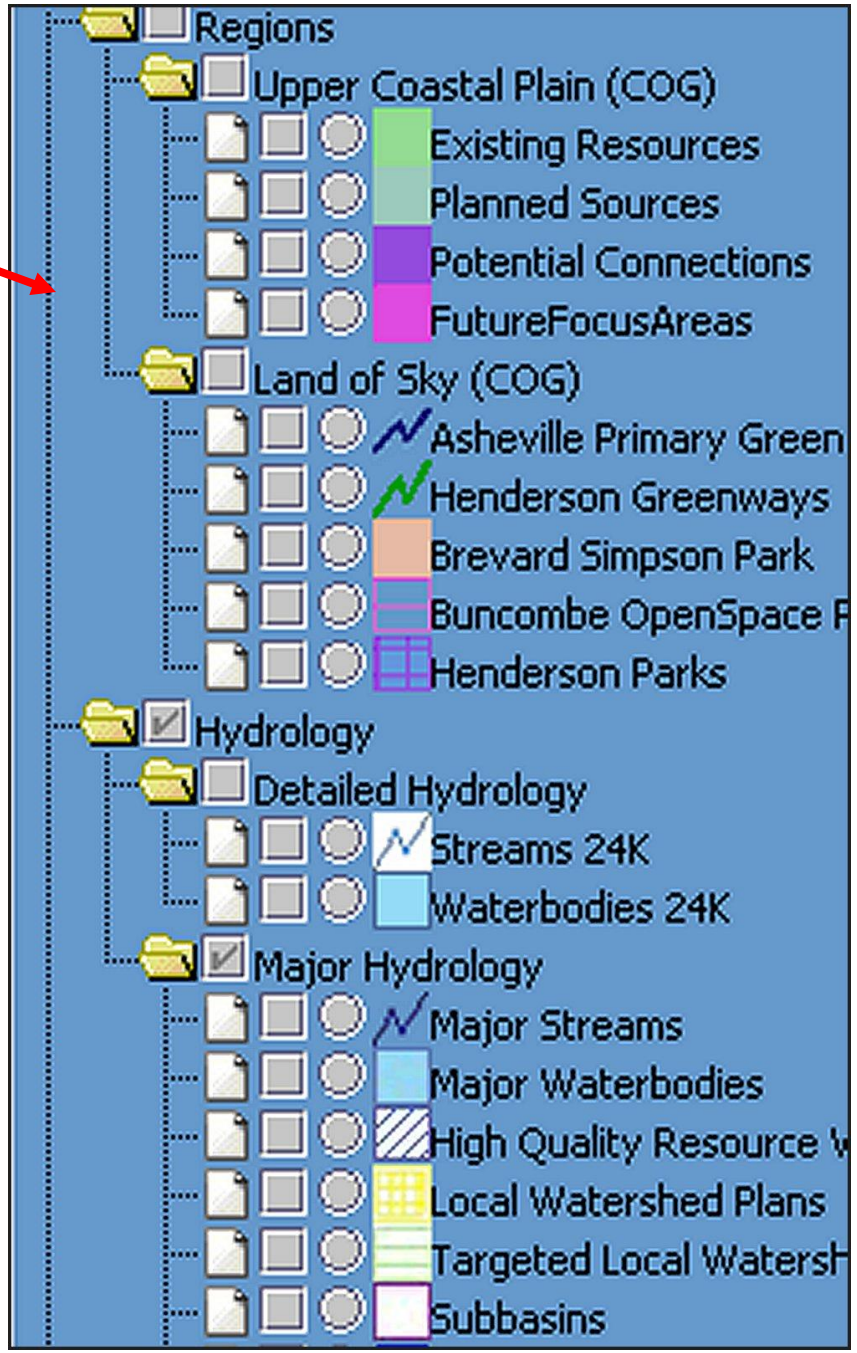
Zoom In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Major Streams
Major Waterbodies
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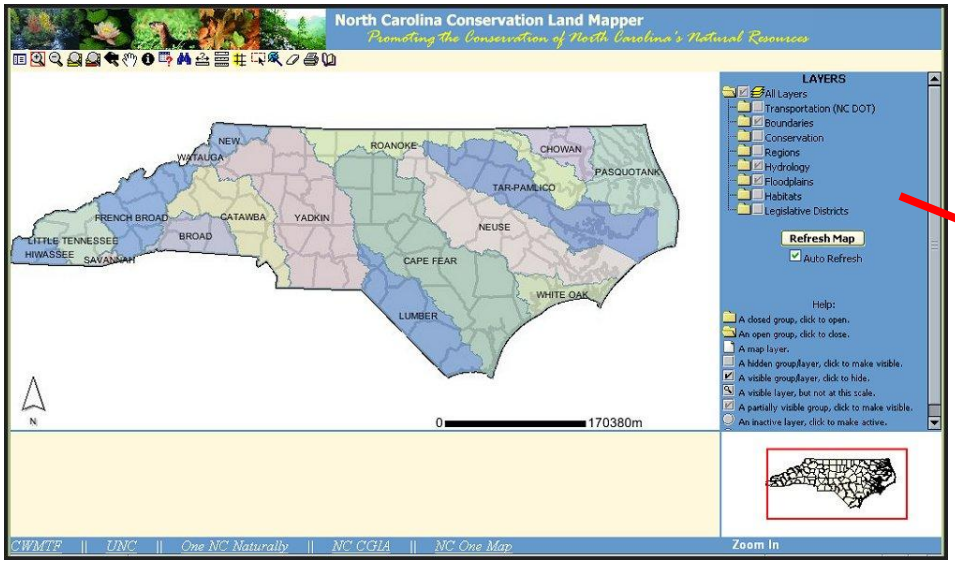
Targeted Local WatersH
Subbasins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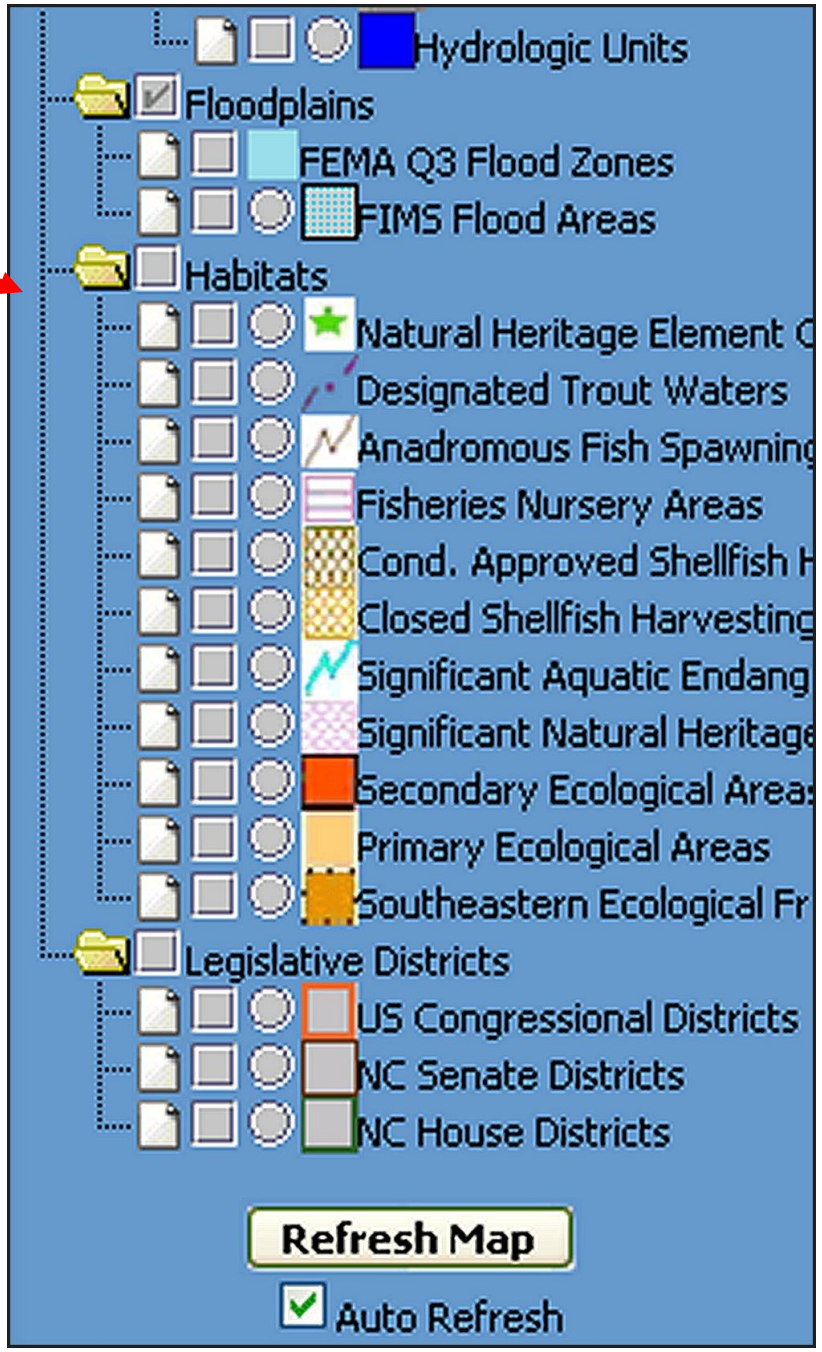
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Significant Natural Heritage
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Primary Ecological Areas
Southeastern Ecological Fr
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US Congressional Districts
NC Senate Districts
NC House Districts
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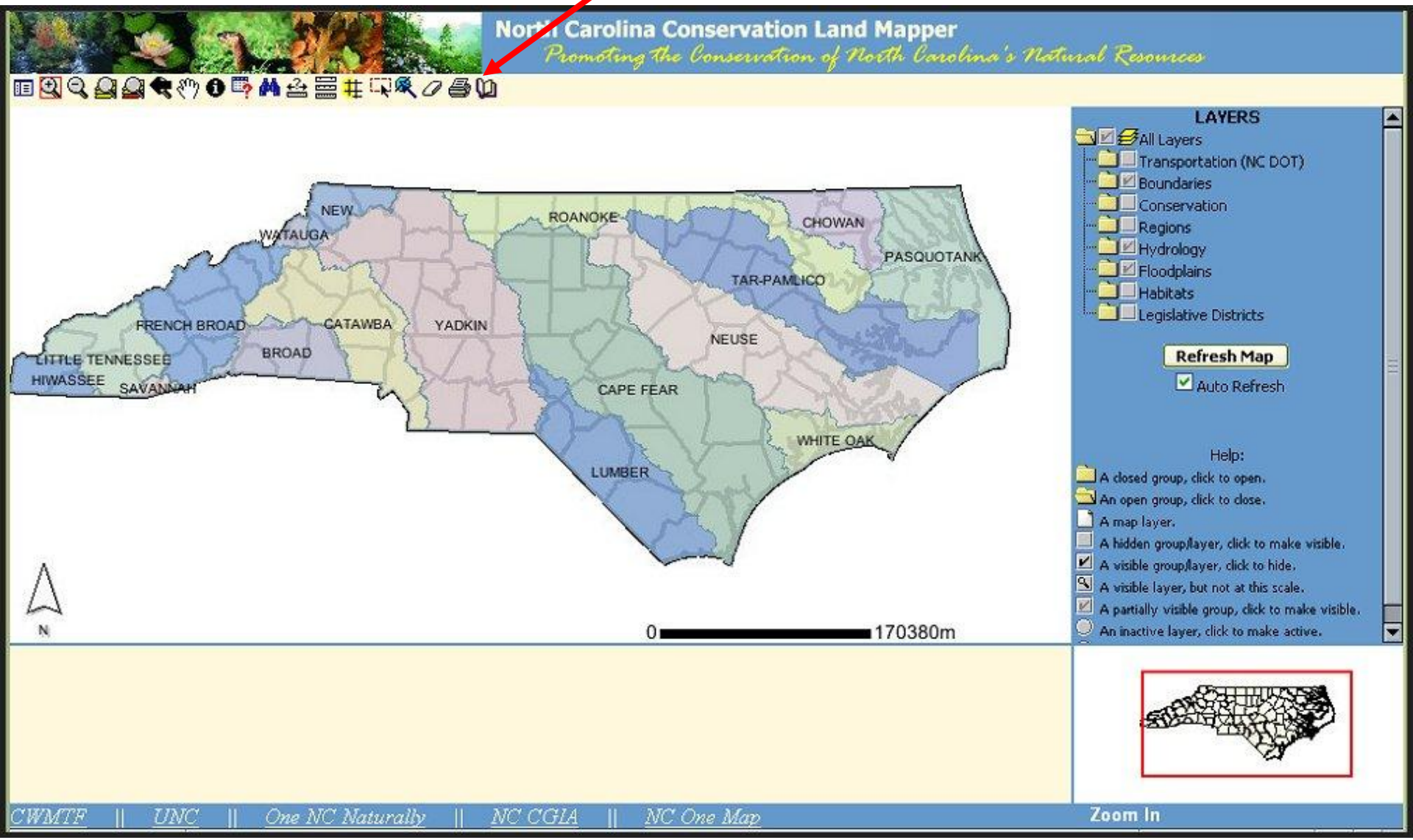
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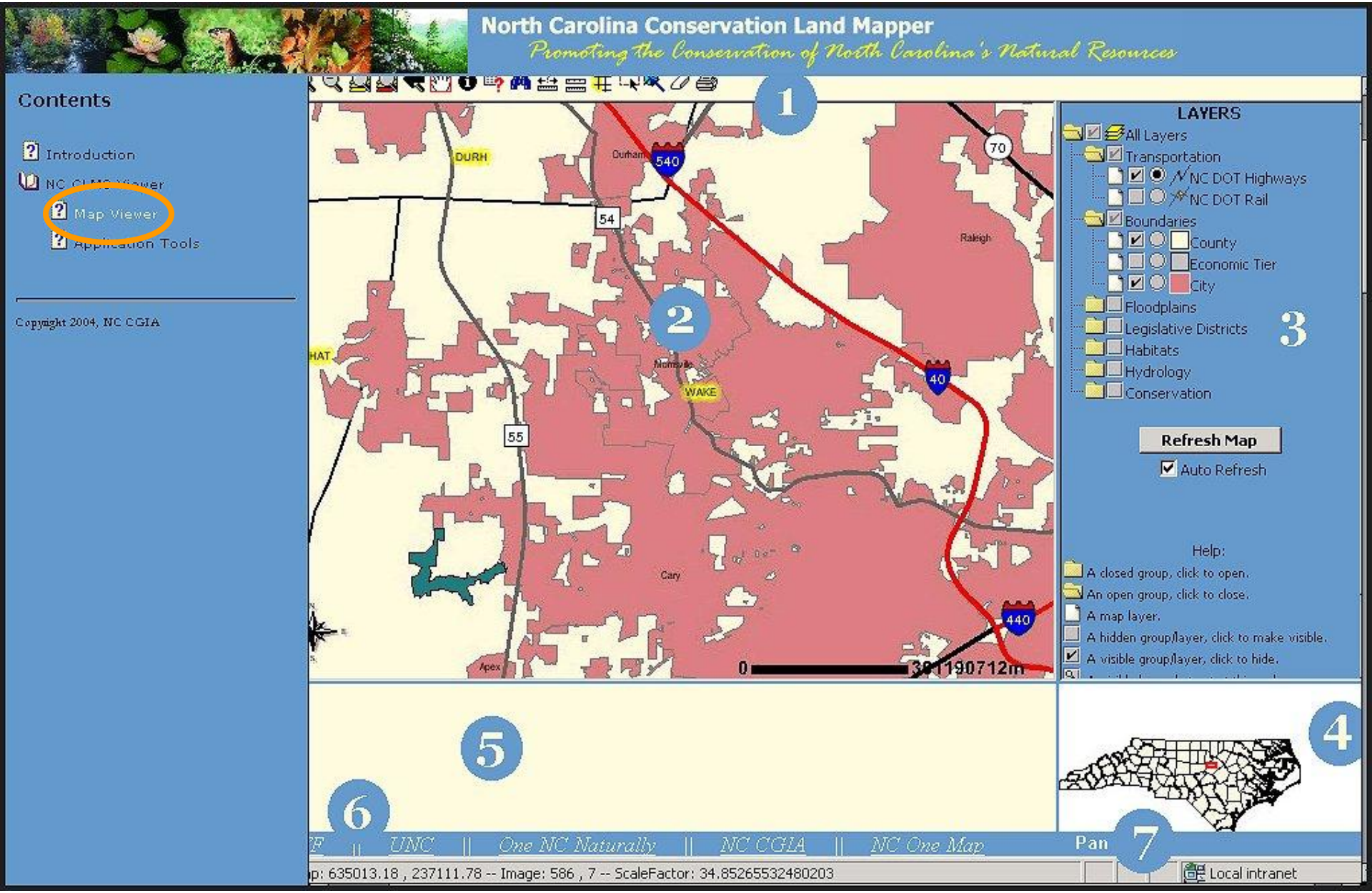
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A visible group/layer, click to hide.
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Raleigh
WAKE
Cary
Apex
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70
54
40
55
440
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UNC
One NC Naturally
NC CGIA
NC One Map
Pan
Local intranet

1

Toolbar

The Web Application Toolbar contains all the tools and buttons offered in the map viewer. For more information on how to use these tools, click here: Application Tools.

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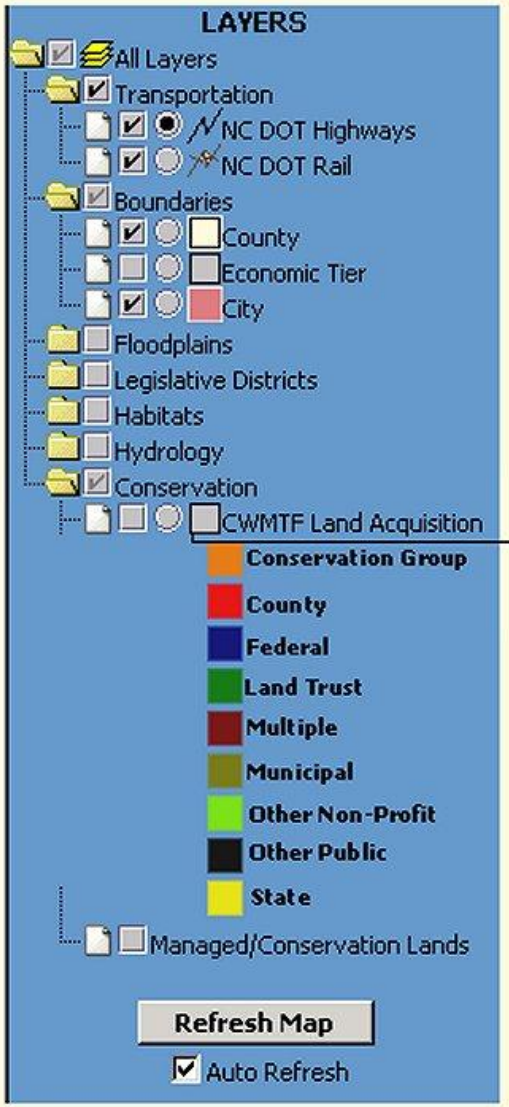
2

Map Frame

The map frame is the center window that contains that the map area that you are viewing. To zoom in and out or move around (panning) the map, see the Application Tools. If you receive an error while zooming in and out or panning the map, you should reload the viewer by clicking the 'Refresh Map' button (paste image here) located in the TOC/Layer List.

3 Layer List/Table of Contents (TOC)



Explanation of the layer list and its functions:

- A closed group, click to open.
- An open group, click to close.
- A map layer.
- A hidden group/layer, click to make visible.
- A visible group/layer, click to hide.
- A visible layer, but not at this scale.
- A partially visible group, click to make visible.
- An inactive layer, click to make active.
- The active layer.

To view a layer's classification/legend, simply click on the image next to the layer name. The legend will be displayed in the TOC beneath the layer name. Click the image once more to hide the layer classification.

While Auto Refresh is checked, the viewer will automatically be updated with the requests made on the map. Uncheck Auto Refresh and be sure to click Refresh to apply the any new changes made to the map viewer.

4 Overview Map

The NC Conservation Lands Map Viewer overview map indicates the portion of the State that is currently being shown in the main map (Map Frame - create link here). This is depicted by a red rectangle. Also, you can quickly move to another area of the map by clicking around the overview map.

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5 Identify & Query Frame

The Identify and Query Frame is used by several Application Tools to retrieve and disseminate information from and to you, the user.

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6 Important Links

The following links provide quick access to significant websites.

CWMTF (Clean Water Management Trust Fund) http://www.cwmtf.net/

UNC (University of North Carolina) http://www.unc.edu/

One NC Naturally http://www.enr.state.nc.us/officeofconservation/

NC CGIA (NC Center for Geographic Information & Analysis) http://www.cgia.state.nc.us/

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Zoom To Full Extent
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Zoom To Last Extent
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Identify & Query Tools:
Identify
Query
Find
Measure
Set Units
Buffer
Select by Line/Polygon
Select by Rectangle
Other Tools:
Show Legend
Print
Clear Selection

Zoom In Tool

Use this tool to enlarge or show a greater detail of a portion of the map. This tool can be demonstrated in two ways.

Steps:

1. Select the tool.
2. Click and draw a box on the map around the area that you wish to see in more detail.

OR

1. Click on a point in the map without drawing a box. You will enlarge the area of the map around that point by a factor of 2.

The map will refresh and draw the zoomed in area.

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Zoom Out

The Zoom Out Tools is the opposite of the Zoom In Tool. Use this tool to view a larger map area, but in less detail. Again, this tools can be demonstrated in two ways.

Steps:

1. Select the tool.
2. Click and draw a box on the map.

The map will redraw at a reduced scale. A smaller box will zoom out more than a larger box.

OR

1. Click on a point in the map without drawing a box. You will zoom out from the area of the map around that point by a factor of 2.