

The background of the slide features a light gray gradient with several realistic water droplets of various sizes scattered across the surface. The droplets have highlights and shadows, giving them a three-dimensional appearance.

RESEARCH, DATA, AND RESOURCES IN THE COASTAL

WHAT WE KNOW, WHAT WE DON'T KNOW, AND WHAT
WE DON'T KNOW THAT WE DON'T KNOW

REBECCA WARD

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STATE CLIMATE OFFICE OF NORTH CAROLINA, NCSU

FRESHWATER IN THE NORTH CAROLINA COASTAL PLAIN

NEW BERN, FEBRUARY 16, 2016

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TOOLS FOR ACCESSING WATER DATA FROM THE NC STATE CLIMATE OFFICE

INTEGRATED WATER PORTAL

- CLIMATE.NCSU.EDU/WATER/MAP
- (NOTE: NO "WWW." AT START OF URL)
- (NOTE-2: WORKS BEST IN CHROME AND FIREFOX)



Data Selection

Show Daily Realtime sites

Measuring: **14-Day Averaged Streamflow**

Pick a Parameter...

Between: Feb 6, 2016 and Feb 14, 2016

Data Restrictions:
 Any Data
 At least 90% of records

Update Map

Map Options

Tags: Networks USGS

Streamflow
Daily Averaged Streamflow
Daily Maximum Streamflow
Daily Minimum Streamflow
14-Day Averaged Streamflow
30-Day Averaged Streamflow
60-Day Averaged Streamflow
90-Day Averaged Streamflow
1-Month Averaged Streamflow
2-Month Averaged Streamflow
3-Month Averaged Streamflow
4-Month Averaged Streamflow
5-Month Averaged Streamflow
6-Month Averaged Streamflow
9-Month Averaged Streamflow
12-Month Averaged Streamflow
18-Month Averaged Streamflow
24-Month Averaged Streamflow

Gage Height
Daily Mean Gage Height
Daily Maximum Gage Height
Daily Minimum Gage Height

Stream
Elevation
Green Generated Power
Gauge Curve
Inflow
Outflow
Precipitation (from Basin to Basin)
Water Supply

Precipitation
Daily Precipitation

Groundwater
Monthly Averaged Groundwater
Type of Groundwater Level Measurement
Groundwater Level
Groundwater Level (in reference to mean sea level)
Distance Between Land Surface and Well Measuring Point

Integrated Water Portal

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Displaying 723 Sites

Trent River Near Trenton, NC

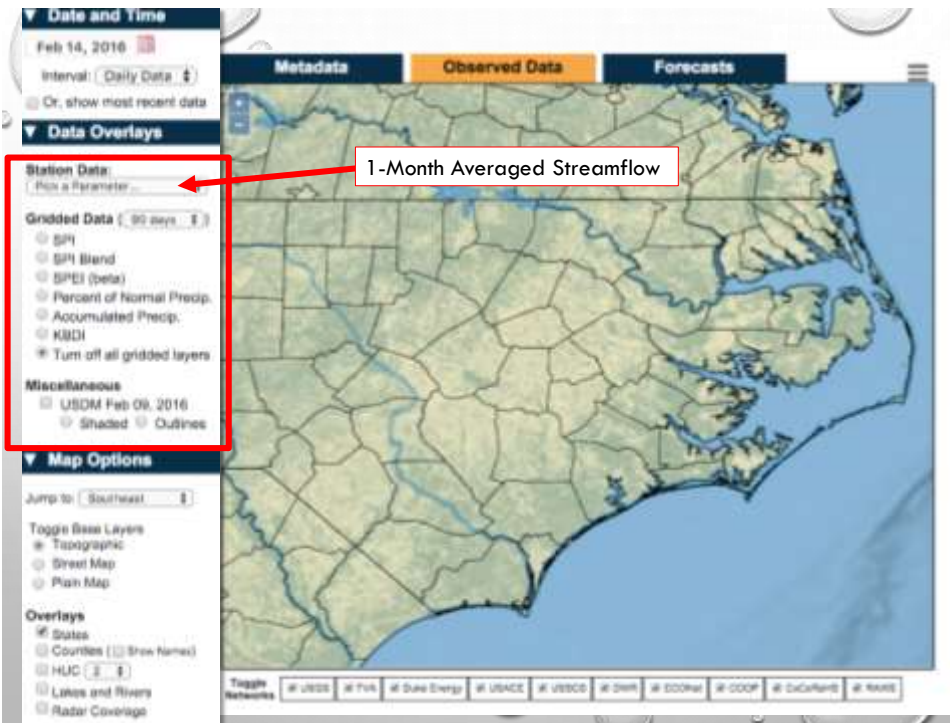
Site ID: **14000000**

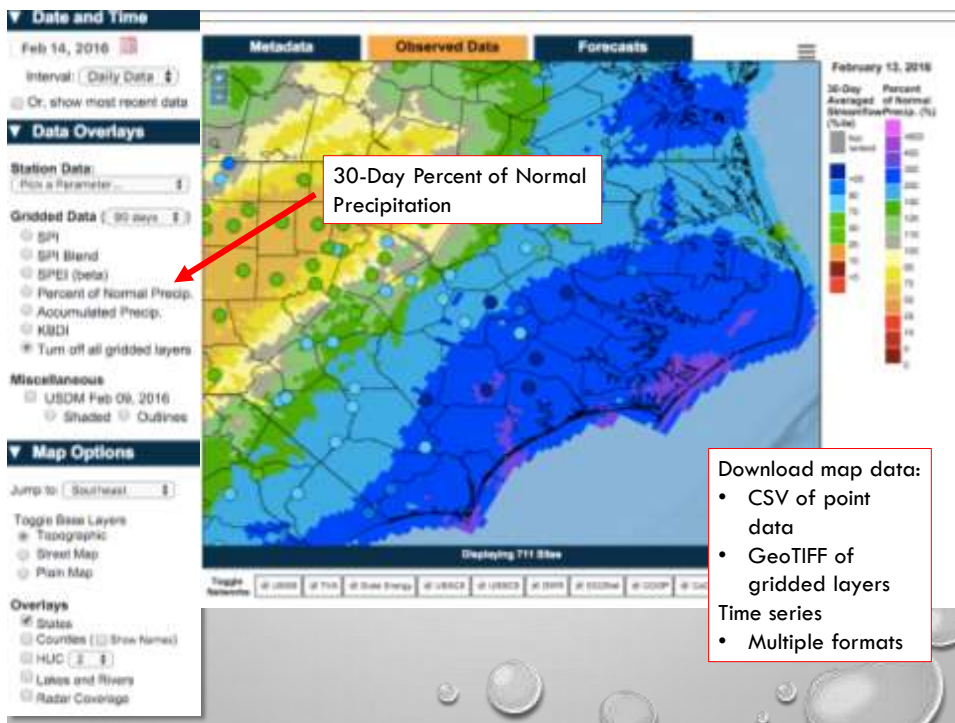
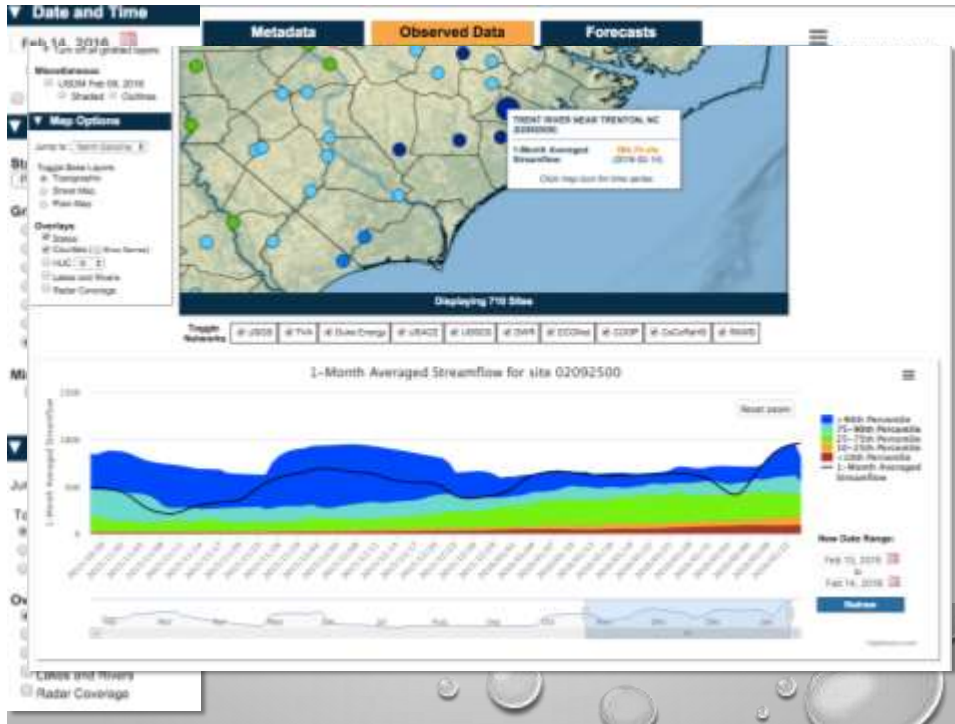
Location: Jones County, North Carolina
Coordinates: 35.08N, -77.48W

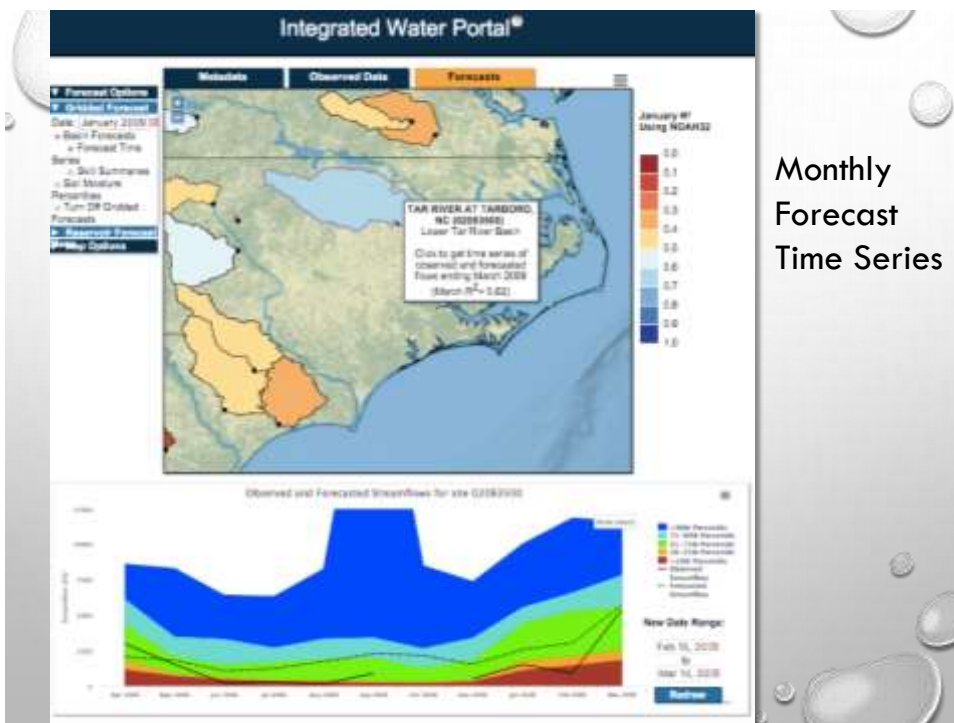
Network: USGS
Elevation: 15.11 feet above sea level
Hydrologic Unit Code (HUC): 04020204
Reach: 3
River Reach: Lower Neuse
Site Type: surface
Site Type: 07
Drainage Area: 108 square miles

Daily Parameters Measured at This Site:
• Streamflow
• Gage Height
• Daily Streamflow Percentiles

Date Availability:
Data: 1961-01-01 to 2016-02-14 (Rain, records: 22146)
Peak: 1952-03-29 to 2009-04-08 (Rain, records: 57)
Q95: 1955-01-01 - 1992-10-22 (Rain, records: 324)







Monthly Forecast Time Series



RECAP – WATER PORTAL

- EXPLORE WATER AND WEATHER DATA
- DOWNLOAD MAP AND TIME SERIES IMAGES AND DATA
- ONGOING IMPROVEMENTS
 - BASED ON USER FEEDBACK
 - FORECAST REFINEMENTS
- CLIMATE.NCSU.EDU/WATER/MAP

RECAP – DATA GAPS

- WE INGEST WATER DATA FROM NUMEROUS SOURCES (USGS, DWR, USACE, ETC.)
 - THE DATE WE STARTED INGESTING DATA *MAY BE DIFFERENT* FROM THE EARLIEST DATE A STATION HAS DATA
- WE WILL BE WRITING NEW INGEST SCRIPTS AND REWRITING OUR DATABASE OVER THE NEXT 6 MONTHS – 1 YEAR
 - HOPE TO FIX THIS

ADDITIONAL RESOURCES

- NUMEROUS OTHER TOOLS FOR DATA
 - OBTAIN DATA:
 - WATER: CLIMATE.NCSU.EDU/CRONOSH2O
 - WEATHER: CLIMATE.NCSU.EDU/CRONOS
 - DATA REQUEST FORM: CLIMATE.NCSU.EDU/SERVICES/REQUEST.PHP
 - CURRENT/PAST WEATHER: CLIMATE.NCSU.EDU/MAP/
- CONTACT US:
 - 919-515-3056
 - SCO@CLIMATE@NCSU.EDU
- CONTACT REBECCA WARD:
 - RVCUMBIE@NCSU.EDU

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