

MINUTES

Statewide Mapping Advisory Committee Meeting

Wednesday, January 8, 2025, 1:30 – 3:30 PM
NCDEQ Green Square Training Room (#1210)

Welcome/Introductions

In attendance: See attendance sheet at end of minutes.

The minutes from the October 9, 2024 SMAC meeting were approved by the committee.

Working Groups and Related Geospatial Data

Working Group for Orthoimagery and Elevation

Ben Shelton showed the current 4-year cycle map. Work is beginning in the 2025 Eastern Piedmont area (see Figure 1).

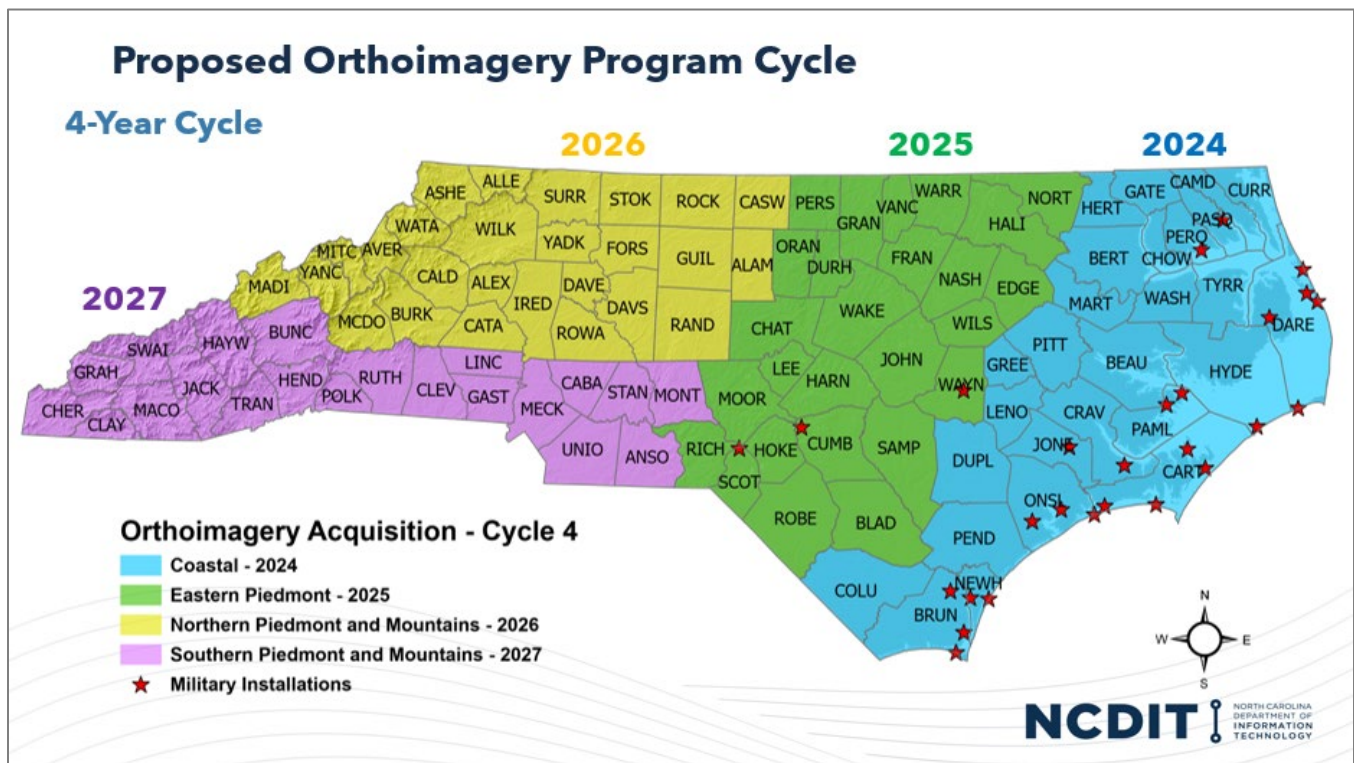


Figure 1 - Current 2024-2027 image collection cycle

Closing out the 2024 project, there were several deliverables disbursed to the PSAPs in the project area. They include:

- Full Resolution TIFF Tiles (5000' by 5000')
 - 4-Band (RGBIR)
- 20:1 Compressed MrSID Tiles (5000' by 5000')
 - 4-Band RGBIR

Reference Frame

Gary reminded the SMAC that the new datums will be coming in Spring 2026. He is nearly finished preparing a document geared towards local government on things they should prepare for.

NC LiDAR Update

In Gary’s update he mentioned that Phase 3 was flown in 2024. All counties will be delivered by the end of this month with QC going on through February. Once finalized, the data will be shared with NC OneMap and all the counties.

There is also a collaboration effort to collect LiDAR and imagery for 13 counties in western NC in 2025. Emergency Management is speeding up the timeline to have the data available by the end of this calendar year. Figure 3 identifies the counties.

LiDAR collection will commence next week and imagery acquisition once the

sun angle is suitable. Imagery specifications will not be what the norms are for the state’s orthoimagery program. This data will be used for damage assessment due to Hurricane Helene. QC checks will be performed for LiDAR and imagery, however, as they typically are for products coming from the orthoimagery program.

NCEM is already using what imagery has been collected for Helene (by the Civil Air Patrol, NOAA, and NCDOT) to determine where river or stream channels have changed. It was determined that channels had changed enough that they are actually outside the existing SFHAs (Special Flood Hazard Areas). This new imagery will further help with those assessments. Funding also exists to capture imagery for the same area in 2026. Ben stated it would be beneficial if the group summarized the project and deliverables to the SMACs orthoimagery and elevation working group (WGOE). Colleen Kiley added there may be state agencies that are interested in the data that will be collected and would benefit from this knowledge. She also observed that with new imagery being flown in 2026 there will need to be a good deal of coordination with the NC orthoimagery program.

Gary added that NCEM will share the data once it’s collected. He and Ben will coordinate the project briefing for an upcoming WGOE meeting.

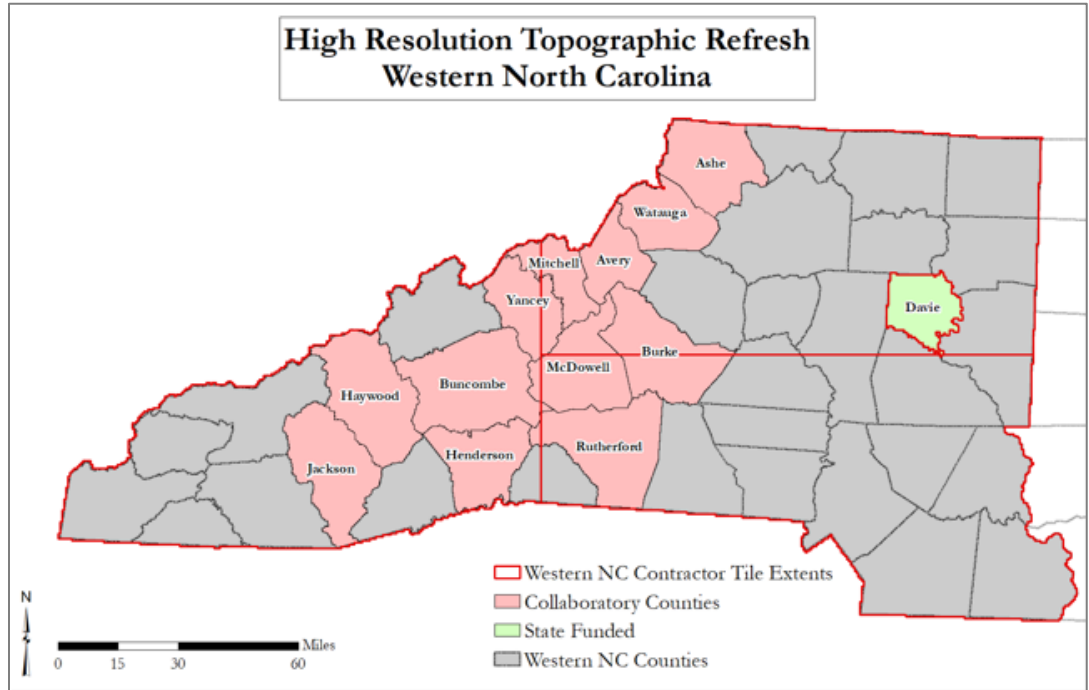


Figure 3 - NC Collaboratory for western NC counties

Working Group for Seamless Parcels

Katie Doherty informed the SMAC the last working group meeting was on November 13th. The group worked on finalizing additional fields needed to incorporate into the NCAAO (North Carolina Association of Assessing Officers) data sharing committee needs. They also discussed CAMA software vendors they'd like to engage with for a pilot project to obtain property tax data directly.

In addition, the team discussed software vendors for managing and maintaining the parcel uploads, and will seek demonstrations from those they are interested in.

For outreach efforts, the group has spoken to NCEM and NCDOR about the project and received good feedback. Other collaboration opportunities for 2025 were also discussed.

The next WGSP meeting will be held in early February.

Cadastral

Katie Doherty updated the SMAC on the seamless parcels project. There was a total of 322 county updates during all of 2024. Only 3 counties were unable to supply an update. There have already been 5 counties that have uploaded their parcel data to the transformer in the first week of 2025.

Hydrography Working Group

Colleen filled in for Cam McNutt. An MOA has been written and is currently under review by legal counsel at DOT, DEQ, and DIT. The goal is to bring the project to the direct attention of the department secretaries and have it in writing that the data set will be supported long term.

A governance document that, in part, will cover the technical framework for how DEQ will produce and update the data and who will be involved in that. It will outline how the data will be shared, and in what formats, between DEQ and DOT and then the GIS community. It will also specify how the hydrography data will be updated based on the acquisition of new LiDAR data. This will be a "living document", to be updated as technology changes and new needs are developed.

Paul added it would be beneficial for the SMAC to see the historical hydrography data versus the current data, to give a visual indication of the rate of change.

Eric Wilson mentioned a version of the ATLAS hydrography is on the NCDOT Go!NC AGOL [web site](#) if some should need to use it to support Hurricane Helene response.

Working Group for Administrative Units

Municipal Boundary and Annexation

Bob Coats reported that the committee has been divided into two smaller groups, one working on data quality research - working with stakeholders that are receiving MB information and comparing that to the data that was received through the MB on-line tool - and the other on a communications plan to reach out

to stakeholders and provide resources and information that will hopefully facilitate more complete participation with the MB tool and the overall project.

Bob added that the 2025 cycle for BAS (Boundary Annexation Survey) has begun and NC received an invitation to provide its boundary information. The group was not looking at fully implementing this for the statewide participation in BAS until 2026, but it appears the Census Bureau has given NC the opportunity to provide information this cycle, if the desire is there.

So the question now is does NC want to participate and submit the statewide information and then perhaps ask BAS if they could provide feedback on what they received from local governments in comparison to what the state submits. The state has until March 1 to provide information that would be included with the data products and estimates released by the Census Bureau for this year.

County and State Boundaries

Gary indicated there are about 8 to 10 more monuments to place along the Jackson - Macon boundary. All the property owners have been contacted and granted permission. Once the weather conditions improve Gary's team will complete this.

There is a joint county commissioners meeting between Catawba and Lincoln on January 14th. The goal is to adopt the new boundary. The other county boundary projects are outlined in Figure 4.

Projects in progress

- Jackson – Macon (establishing county boundary monuments in progress)
- Catawba – Lincoln (joint commissioners meeting on January 14, 2025)
- Granville – Franklin (HB438 ratified, in progress to set monuments along the county boundary)
- Mecklenburg – Union (HB457)
- Caswell – Person (working with the counties to finalize the reestablished boundary)
- Forsyth – Guilford (counties have adopted resolutions accepting the reestablished boundary)
- Polk – Rutherford (contracting in progress)
- Chowan – Perquimans
- Harnett – Johnston
- Burke-McDowell (research in progress)
- Beaufort-Pitt
- Caldwell - Watauga
- Mitchell – Yancey
- Cumberland - Harnett
- Bladen – Columbus – Brunswick
- Buncombe – Henderson

NC Data Projects

Wetlands

Jim Stanfill ran a working group looking at wetlands in North Carolina. The GICC felt it would be advantageous for the SMAC to hear what the group discovered about wetlands (shortcomings, etc.) and for the SMAC to start pushing for better wetlands data based on the working group findings.

Figure 4 - Current NC county boundary mapping projects

This would have been the first report from Jim, however he is ill today and unable to attend. His briefing will be added to the March 26th SMAC agenda.

Addresses

Darrin Smith reminded all that the AddressNC program strives to update address points monthly. The current data set is up-to-date through December 23rd. In the last update there have been over 149,000 new addresses or address changes. Also, there were over 29,000 new sub-addresses. The AddressNC team sees this as valuable information

as it shows areas of growth, and that counties are converting their parent addresses to subunits where applicable. He reminded everyone that the map and geocoding services are discoverable from NC OneMap. Address points and the off-line geocoder can also be downloaded from there as well. The next data set update will be in late January.

Building Footprints

Gary said good progress has been made mapping footprints in the 2022 imagery project area. Red areas in western NC are those where updates have occurred within the special flood hazard areas for the benefit of Hurricane Helene response.

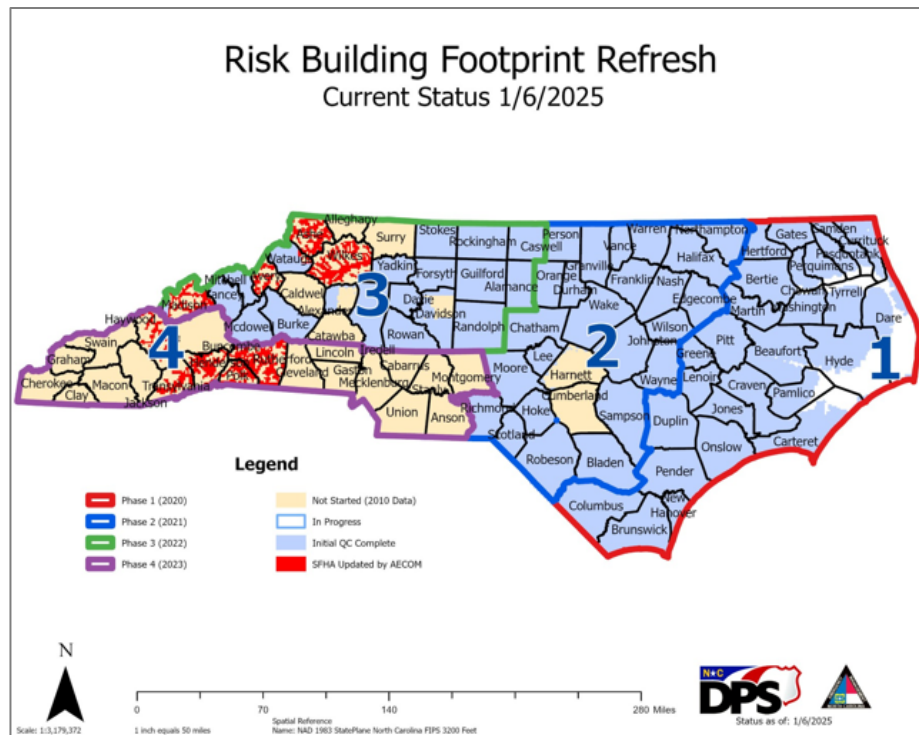


Figure 5 - Building footprint mapping status

NC are those where updates have occurred within the special flood hazard areas for the benefit of Hurricane Helene response.

Ben will coordinate with Dan Madding to get him the results of the AI modeling CGIA is performing in conjunction with AWS.

Regular Status Updates

NC GIO Report

Matt McLamb is filling this capacity until a permanent GIO is found. He reminded the SMAC of the 2025 NC GIS Conference which will be March 19 - 21 in Winston-Salem. CURISA-

sponsored workshops will be March 18th. There are currently over 100 sessions planned on the agenda. The detailed agenda has been shared with the conference executive committee and will be available on the conference web site this week.

The G. Herbert Stout local government awards nominations are open through January 31st. Those submissions can be sent to Matt at matthew.mclamb@nc.gov. The Stout student awards are still open as well. Tim Johnson is working closely with universities to receive those nominations.

Lastly, the first GICC meeting of the year will be held at the end of the conference - Friday, March 21st at 10am.

USGS/National Geospatial Programs Office

Jo Baker passed along to the SMAC that the USGS hydrography program has released the final watershed boundary data set. Also available is the 3DHP downloadable release. There is also a web page outlining the differences between the EDH and the 3DHP. Jo supplied the following links in the meeting chat:

- **Final** WBD National product: <https://prd-tnm.s3.amazonaws.com/index.html?prefix=StagedProducts/Hydrography/WBD/National>
- **First** 3DHP annual release (downloadable product): <https://prd-tnm.s3.amazonaws.com/index.html?prefix=StagedProducts/Hydrography/3DHP>
- New 3DHP web page on differences between EDH and 3DHP data: <https://www.usgs.gov/3DHP/differences-between-edh-and-3dhp-data>

NC OneMap

David Giordano added to Ben's orthoimagery update at the beginning of the meeting - the NC OneMap announcements [web page](#) contains some good detail about the 2024 imagery, including links for the products for that year.

Responding to user feedback, the statewide parcels data set (100 counties in a single file) will be available in the OGC GeoPackage format. Initially the statewide cadastral data was only available as an Esri file geodatabase. The GeoPackage addition allows seamless use in open-source products.

Other Business

Rich Elkins pointed out that the September (9/30) SMAC meeting is the same day as the NCAUG pre-conference workshops in Asheville. The chair and staff will look for open dates to reschedule that SMAC meeting.

Adjourn

Attendance (In-Person):

Name	Association
Nathan Bland	NC Sec. of State
Gary Thompson	NC Emergency Management
Colleen Kiley	CGIA
Alice Wilson	City of New Bern
Matt McLamb	CGIA
David Giordano	CGIA
Ben Shelton	CGIA
Darrin Smith	CGIA
Rich Elkins	NC Sec. of State

Attendance (On-Line):

Name	Association
Paul Badr, Chair	GPI Geospatial Inc.
Eric Wilson	NC Dept. of Transportation
Kitty Kolb	US Geological Survey
Jo Baker	US Geological Survey
Zsolt Nagy	AECOM
Steve Averett	City of Greensboro
Katie Doherty	Rutherford County GIS
Christian Vose	NC Dept. of Agriculture and Consumer Services
Joe Battinelli	Cabarrus County GIS
Bob Coats	OSBM
Scott Davis	Axiom Environmental
Mitchell East	NC Dept. of Natural and Cultural Resources
Luca Venegoni	CGIA
Brenden Drumm	CGIA
Ray Chilcote	CGIA