

MINUTES

Statewide Mapping Advisory Committee Meeting

Wednesday, July 14, 2021, 1:30 – 3:30 PM
Cisco WebEx Virtual Meeting

Welcome/Introductions

In attendance: Paul Badr, Gary Thompson, Rich Elkins, Eric Wilson, Tim Johnson, Steve Averett, Sean McGuire, Christian Vose, Camille Tyndall Watson, Alice Wilson, Colleen Kiley, Darrin Smith, Ballingham Chepuri, Matt McLamb, John Lay, Bob Coats, Ben Shelton, John Bridgers, Sarah Wray, Elizabeth Daniel, Jeff Essic, Cam McNutt, David Giordano

Minutes from the April 14th, 2021 meeting were approved.

Framework+ Datasets

Orthoimagery

Ben Shelton brought the SMAC up to speed on the NC orthoimagery projects. The project currently ongoing is the 2021 Eastern Piedmont project, shown in green in Figure 1. Approved earlier this year by the NC 911 Board was the 2022 project (shown in yellow).

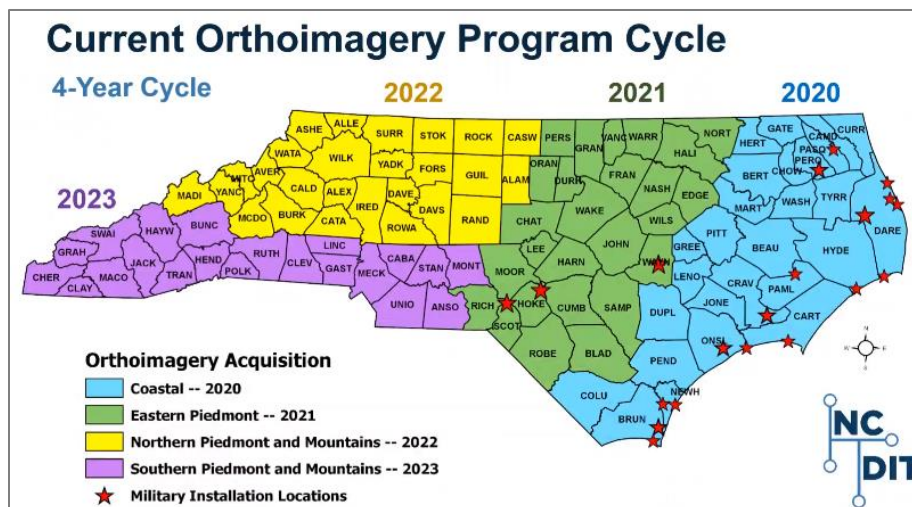


Figure 1: 4-year imagery acquisition cycle for 2020 - 2023.

the NC 911 Board was the 2022 project (shown in yellow).

The Eastern Piedmont project involves 26 counties covered by 4 contract vendors. Acquisition was completed in March 2021. Contractors are using the color infrared imagery acquired during the collection phase to quickly determine which areas are flooded. Due to

flooding in southern Robeson County, the Lake Jordan area, and around the Tar and Roanoke rivers in Northampton and Halifax counties, these areas needed to be reflight.

Unlike acquisition flights in previous years, imagery over Fort Bragg and Camp McCall will not be redacted and will be fully available on NC OneMap after delivery to the PSAPs and the counties. There will be an image resampling to 1-foot pixels for 7 tiles in those military installations.

The project is currently in the quality control phase. Data delivery to PSAPs is scheduled for mid-November 2021.

Cadastral

John Bridgers supplied the cadastral update to the SMAC. John reported 15 counties have uploaded their parcels data to the transformer so far in the 3rd quarter. A total of 71 counties have updated within the last 90 days. The rest of the updating is as follows:

- 2 counties update in Q2 2021 (but more than 90 days ago)
- 10 counties updated in Q1 2021
- 8 counties last updated in Q4 2020
- 5 counties last updated in Q3 2020
- 4 counties last updated in Q2 2020 (or earlier, with Anson and Madison counties last updating in Q4 2019)

Elevation

John Lay informed the SMAC that elevation collection phases 4 and 5 have been QCed and the data uploaded to the CGIA AWS website. Phase 3 QC is underway. There is a small problem with Randolph County.

DPS has received two blocks of NOAA elevation data in the Carteret County area. The data will have to be reprojected and tiled according to the state's scheme.

Hydrography

Cam McNutt reported that EPA has approved the NC 303d list, and he is building a geodatabase of distribution of this information at the 100k scale.

Geodetic Control

Gary Thompson showed the committee the status of the CORS (Continuously Operating Reference Station) Network (Figure 2). New CORS locations are highlighted by a red star on the map. As part of a grant proposal with NC A&T, two CORS have been installed in Sparta, NC as a result of the earthquake there in August 2020. In preparation for the new 2022 datum, which will now occur in 2024, one of the needs is gravity data, in particular in western NC. The NCGS partnered with the National Geodetic Survey to install 11 gravity monuments in the western part of the state.

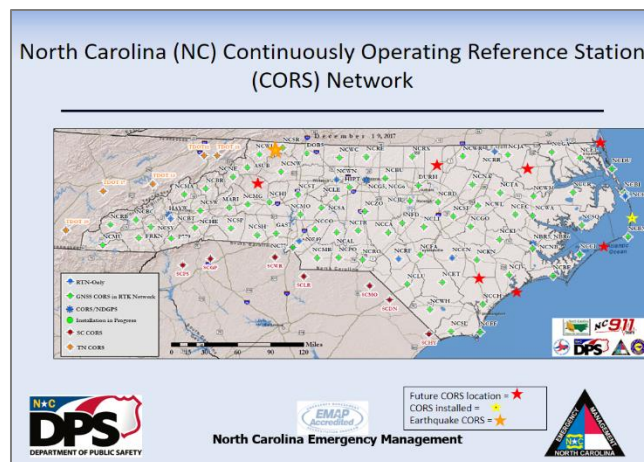


Figure 2: CORS Network status as of 7/14/21.

Gary's team is also working on the GPS on Benchmarks project, which will build the transformation parameters for the vertical datum change in 2022 (now 2024). Figure 3 shows the status in 2020. The yellow points are Priority A and need GNS observations. Blue points are Priority B. The map on the right shows the status earlier this year. Great progress has been made in central and western NC. The data collection is 97% complete. The project needs to be finished by the end of this year.

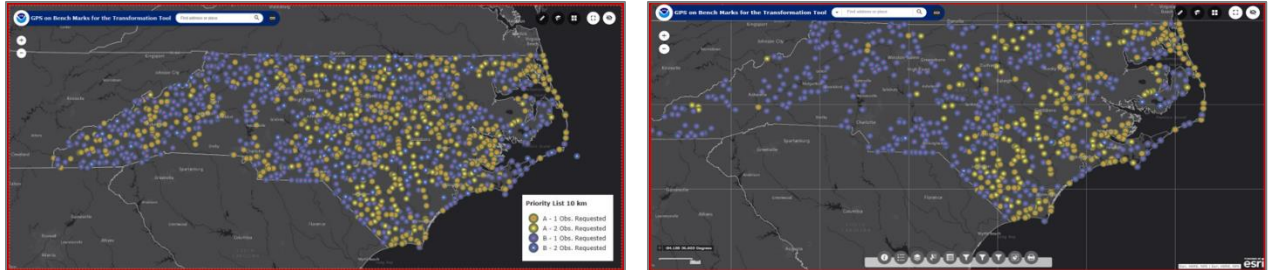


Figure 3: GPS on Benchmarks status in 2020 (left map). Status as of 5/31/2021 on the right.

Administrative/Governmental Units

County Boundaries:

Gary reported the active counties for review are Davie - Yadkin, Jackson - Macon, and Montgomery - Richmond. As far as state boundaries the NC/SC boundary has been completed. Governor Cooper just reappointed Gary and four others to the state boundary commission. Gary and the others will meet soon to discuss the NC/VA and NC/TN boundaries.

Municipal Boundaries:

Eric Wilson said this report would be folded into the Working Group for Municipal Boundaries report later in the SMAC meeting.

Transportation

Eric introduced himself as the new manager of the NCDIT-Transportation GIS Unit. He has over 25 years of GIS experience in the private and public sectors, including 4 at NCDIT-T.

Eric reported that the DOT GIS data requirements gathering is ongoing. Findings will include local government feedback and will be presented to the SMAC.

The intersection inventory is also moving forward. A team is actively meeting and researching methods and software. The goal of the inventory is to ensure that DOT intersections support federal and state statutes, and reporting requirements. The project was initially driven by traffic safety and MIRE (Model Inventory of Roadway Elements), but now included are requirements from the DOT Long Range Planning group and NC CRIS (an eCrash replacement). The intention is to have a product by 2026. Interim products may be released during the project timeline, however.

The ATLAS hydrography data is still being developed. A data schema update is coming which will more closely align the data to what is expected by Cam McNutt, DEQ-DWR, and the SMAC Hydrography Working Group.

Transportation framework data releases from DOT for Q2 2021 occurred on May 10th. The 3rd quarter releases will be August 9th. These include road centerlines, rail network (crossings and stations), and bridges with major signage.

Addresses

Matt McLamb deferred an address update and will include it in the working group discussion later in the meeting.

Working Groups

Hydrography Working Group

Colleen Kiley summarized the last meeting of the HWG with Cam absent. The group reviewed the proposed schema for the statewide hydrography layer and investigated whether the attributes for the data would translate into the EDH (elevation-derived hydrography) or the NHD (national hydrography dataset). They also discussed if they have all the correct attributes for the stakeholders. Cam is working with contractors to get the DEQ attribution onto the ATLAS hydrography. Colleen is hopeful a final working schema can be determined at their next meeting.

Orthoimagery and Elevation

Gary reported the committee last met Monday. They received an orthoimagery project update and established a sub-committee to look at the impact the datum change will have on the tiling scheme for imagery and elevation. A meeting to discuss the datum change relative to the state's tiling scheme is scheduled for tomorrow.

Working Group for Municipal Boundaries

Bob Coats provided a summary of the working group in advance of a SMAC vote on the municipal boundary schema.

The purpose of the committee is to:

- Have maintained a single municipal boundary resource that meets the needs to all stakeholders that need this information.
- Streamline the boundary reporting process and reduce the reporting burden on local governments.
- Provide regular review and QC opportunities for all stakeholders.

The working group developed the content standard, core attributes in it, and a process for achieving the goal of a homogenized, single municipal boundaries data set. The proposed standard includes fields for municipal boundaries and annexations. Not all fields in the standard are required.

Bob concluded by asking for approval of the schema from the SMAC. The committee vote was unanimous in favor of the content standard. It will go to the GICC for adoption at their next meeting.

Working Group for Roads and Transportation

Eric spoke for Erin Lesh. The committee would like to update the 2018 content standard to include those from 911 and the NC DOT LRS. The WGRT chair and staff will discuss who are the best fits to sit on the committee and contact them.

2022 Reference Frame Working Group

Gary covered this material earlier in the meeting in his Geodetic Control report.

Metadata Committee

Sarah Wray reported the committee did not meet during the last quarter but plans to convene next month and have a report for the October 13th, 2021 SMAC meeting.

AddressNC

Matt McLamb introduced Darrin Smith as the new AddressNC project manager. Matt provided a brief background on AddressNC. There were two previous efforts in 2009 and 2014. The first effort was driven by the 2010 Census. The 2014 refresh was funded by NTIAs (National Telecommunications and Information Administration) State Broadband Initiative Grant. Within these two previous mapping efforts data schemas were produced and data harvested from the local government entities that maintain the data.

Recurring funding was procured in 2016 to maintain the data set, however work was put on hold due to the NextGen 911 project, which was also going to acquire address data. This 911 project provides a platform where addresses are compiled into a statewide data set by an authoritative source. There was no need to perform duplicative work. Matt believes the NG911 address data will be complete by the end of this year or in early 2022. The AddressNC data will be updated through the NG911 project. Frequency of updates will depend on the county and PSAP. However, timely updates are ensured as this is a NG911 requirement.

The 17-member AddressNC steering committee was formed in June 2020. The committee discussed a new standard during the last quarter of 2020. Content standards and data schemas from NENA i3 version 1, NAD, FGDC, 2009 AddressNC, and 2014 AddressNC were compared. Users outside of 911 were considered, including Census, elections, revenue, and transportation.

Regular Status Updates

USGS/National Geospatial Programs Office

No report from Silvia Terziotti.

NC OneMap

David Giordano reported that work on the migration to Amazon Web Services continues. The NC OneMap team is engaged with an AWS group of experts on a couple of different fronts:

- Verifying automation routines will work properly when a server is added to the ArcGIS site, so web service demand is met.
- Establishing a working disaster recovery routine and test its implementation should the need arise.

NextGen 911

Matt mentioned that the NG911 dashboard has been updated yesterday. Ninety-five out of 115 PSAPs in the state have i3-ready data. The expectation is for things to go live in August. Matt appreciates the hard work put in by the cities and counties across the state.

Other Business

FY 2021-22 Work Plan

Paul highlighted the GICC priority items outlined in the SMACs workplan. In terms of the data the committee's focus is on LiDAR, surface waters, address points, and municipal boundaries. Tim Johnson identified that the end date for item 2.2 should be 12/2021 rather than 2022.

Two other changes identified: from Colleen Kiley, the inclusion of an adopted schema after the hydrography approach and requirements have been defined (item 3.1), and, from Gary Thompson, the addition of a review and update of GPS guidelines given the changes in technology.

In-meeting Task Review

Action items have to do with the updates to the FY 2021-22 workplan as mentioned in Other Business.

Adjourn