

MINUTES

Statewide Mapping Advisory Committee Meeting

Wednesday, January 20, 2021, 1:30 – 3:30 PM

Cisco WebEx Virtual Meeting

Welcome/Introductions

In attendance: Paul Badr (Chair), Alice Wilson, Ken Taylor, Stephen Dew, Gary Thompson, Sarah Wray, Drew Pilant, Rich Elkins, Camille Tyndall-Watson, Sean McGuire, John Lay, Bob Coats, Melanie Williams, John Bridgers, Jeff Essic, Tim Johnson, Matt McLamb, Colleen Kiley, Anna Verrill, Ben Shelton, David Giordano

Minutes from the October 14th, 2020 meeting were approved.

Framework+ Datasets

Orthoimagery

Ben Shelton reported that the NC Orthoimagery Program is in the process of closing out the 2020 project which is the 27 counties along the coast. All the harddrives were delivered to the county PSAPs in the first week of

December 2020. The same data are also available from NC OneMap. It is a 4-band imagery product. An NDVI web service was also created. This is useful to show vegetation health.

The imagery can be downloaded as a 50:1 compressed MrSID county mosaic and a 20:1 compressed MrSID 5,000'x5,000' tile (visually lossless). CGIA is working towards having the county mosaics for download from NC OneMap.

If a user has many tiles desired for download, clicking on each individual tile on the download map can become tedious. An option is to bring the 2020 (or any) image service into ArcMap or ArcGIS Pro and use the tools there to download multiple tiles at once. To do this right-click on the layer in either software program and click Data – Download Raster. This alleviates the need to go to the NC OneMap site to download the imagery.

The contracting for the 2021 Eastern Piedmont project has completed. Four vendors are under contract (See Figure 1). The first status meeting with them was this

morning. Flights will start February 1, 2021 with imagery delivery to PSAPs in the November timeframe. Project hurdles will be to obtain the true ortho in the urban areas and coordinate air space availability with the military installations.

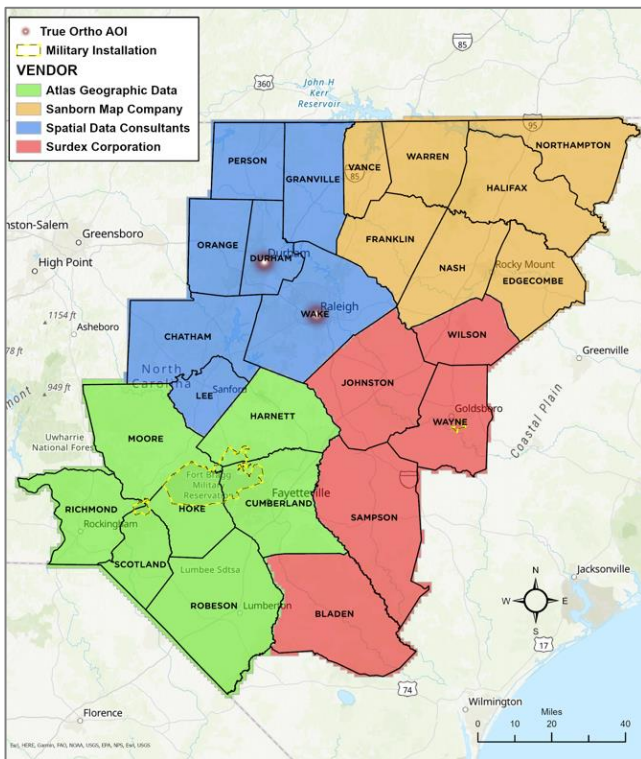


Figure 1. 2021 project area and contractors.

Cadastral

John Bridgers updated the SMAC on NC parcel data. Anna Verrill, the NC Parcels project manager, has sent out the quarterly reminder to counties to update their parcel data through the parcels transformer. Counties are beginning to update their data. There are only two counties that have not updated their data in 2020 or 2021 as shown in Figure 2.

Elevation

John Lay reported that Watson Ross and the NC Geodetic Survey have finished QCing contours and new elevation rasters for phases 4 and 5. A report will be created so the data can be “sealed.” When completed phases 1 – 3 will be started on.

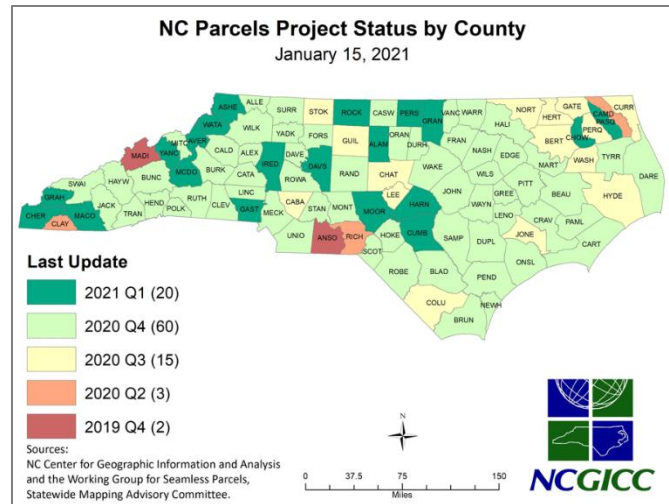


Figure 2. Parcel update status.

Hydrography

David Giordano reported for Cam McNutt. DWR has added over 100 new assessment units to the DEQ 100k plus hydrography as part of the 2020 water quality assessment. These will be out for public review in February including metadata indicating why they were added or retired. Several of the additions included adding geometry from the NHD into the dataset. A geodatabase will be available with several DEQ business tables once the CWA 303d portion is approved by EPA-hopefully in June 2021.

Geodetic Control

Gary Thompson said a lot of work needs to be done to prepare for the datum change, even though the deadline to switch has been pushed back. His team is currently collecting observation on all Priority A geodetic monuments. The more observations obtained will result in more accurate heights. Priority A is about 65% complete.

In working with the National Geodetic Survey (NGS), twenty gravity stations have been established. This is another component of the new datum. The gravity markers are all in western NC. Gravity information will also be collected in the January – June 2021 timeframe in the Sparta, NC area as well as northeastern NC, in addition to other areas as requested by the NGS.

Administrative/Governmental Units

County Boundaries:

Gary reported that field work has been completed on the McDowell-Mitchell line and should be wrapped up soon. The report for the Montgomery-Richmond border has been completed. A meeting will be scheduled to convey the findings to the counties. The other projects in progress are shown in Figure 3.

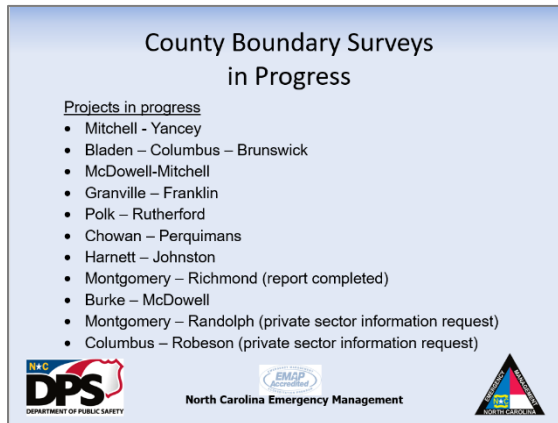


Figure 3. All county boundary surveys in progress.

The following surveys have been completed: Hoke-Robeson, Cabarrus-Rowan, Union-Mecklenburg, Cumberland-Harnett, Davie-Yadkin, and Jackson-Macon. Gary concluded by saying that there will be a presentation on county boundaries at the next GICC meeting.

Municipal Boundaries:

Sarah Wray told the SMAC that DOTs annual responsibility is to update the municipal boundaries consistent with the rules and requirements of the Powell Bill. That work is done in the latter part of the year. That updated data will be part of the Q1 DOT data release on February 15th, 2021.

Transportation

As Sarah Wray indicated the next major data update release will be February 15th. That is for both data downloads and map services on the DOT Go! NC website. Road centerlines with major asset data by segment, railroad stations and crossings, bridges (including signage), and a DOT value-added county boundary file (using NC Geodetic Survey county boundary linework).

Sarah concluded by saying that future SMAC reports will include all modes of transportation DOT covers, including a status of their GIS data. Lastly, the GIS Unit is undertaking a review of the roadway centerlines for NCDOT. The goals are to understand the current needs of the centerlines, ensure that the centerlines are being created to support state and federal statutes and mandates, and to update the dataset to support NCDOT business needs. This will also result a possible updating of the GICC transportation roads data content standard.

Addresses

Anna Verrill reminded the SMAC that the AddressNC team is looking to create a new address dataset coming out of the NG911 project. The team is also working on a data governance strategy with the 911 Board staff. This document will cover any GIS data coming out of the NG911 project. The 911 Board is in the process of finalizing it. Once a draft is in place it will be shared with the SMAC and GICC.

The AddressNC steering committee has been meeting monthly. The final planned meeting will be held tomorrow. The group has collaborated on these goals:

- Advise on an update process for the AddressNC dataset.
- Establish a target release date for a new statewide address dataset (currently Fall 2021) – dependent on the data governance policy.
- Advise on a new data schema to propose to the SMAC, hopefully at the April 14th, 2021 meeting.
- Advise on potential services and tools to create from AddressNC data. This will be the main topic of discussion at tomorrow's meeting. A sub-group of the steering committee has been meeting to discuss prototypes/attributes for the dataset. Outcome will be referenced in the standards document.

The next step once the steering committee has concluded their final meeting tomorrow is to prototype the data and tools. A prototype testing group will be convened in late summer/early fall 2021. This will help feed the final products that are available, hopefully by the end of 2021 (dependent on the timeline of the NG911 project).

Working Groups

Hydrography Working Group

Cam McNutt said the group last met in December 2020 and will meet every other month in 2021. At the last meeting the committee received an update on the ATLAS hydro project. It is the hope that there will be a new version of the product in June 2021. The group also addressed data governance of a final surface hydrography product, data storage, and services. They aim to produce a position paper on the interaction of the hydrography dataset with the federal NHD.

At the next meeting in February the working group will finalize their 2021 work plan. Major topics will include attributing the ATLAS hydrography beyond just NCDEQ information, formal review HUC 12 basins and sub-basins, develop a governance structure for the geometry and attribution of whatever version of hydrography DEQ will be serving as "official", and hopefully have that adopted as the hydrography dataset for NC.

Orthoimagery and Elevation

Gary told the SMAC the subcommittee met yesterday. They received updates from the NC imagery program, NOAA, and LiDAR data collection. The group discussed the recent passing of the Digital Coastal Act and its impact, the National Landslide Preparedness Act, and recent rule changes concerning UAVs.

NC Board on Geographic Names

Cam reported there are two mountain names for the SMAC to consider – Stiles Mountain and Simone Mountain.

- Stiles Mountain - The NC SMAC voted unanimously to approve the request from the NC BGN to name the unnamed feature in Cherokee County to Stiles Mountain.
- Simone Mountain - The NC SMAC determined by vote that while the name Mulatto Mountain is offensive and should be renamed the group voted to not approve the name Simone Mountain, citing not enough

descriptive information in the case brief and that the person the mountain would be renamed for was not from the Ashe County area.

Working Group for Municipal Boundaries

Bob Coats reported that the US Census Bureau sent out their Boundary Annex Survey (BAS) packets in December. They are capturing all boundary changes whether they are municipal, county, or state boundary changes.

Tim Johnson reminded that Bob and John Bridgers that they have a timeslot at the next GICC meeting to discuss the working group's efforts moving forward.

2022 Reference Frame Working Group

Gary had nothing to add as everything was covered in previous reports and discussions earlier in the meeting.

Metadata Committee

Sarah informed the SMAC the committee met last in November 2020. At the meeting the group reviewed their current charter, the list of software applications that can be used for metadata editing, and the status of the metadata standard.

Sarah will present at the 2021 NC GIS Conference to discuss metadata implementation goals for the state. After that the committee will meet later in the year to develop their working plan and begin assignments for metadata tool and standard review.

Regular Status Updates

USGS/National Geospatial Programs Office

Silvia Terziotti mentioned that QL1 LiDAR in the eastern part of the state is still on schedule to be QCed by the end of May. She hopes NC can get an advanced copy of the data to ensure it will meet the state's needs. In order to get early access to the data redistribution will probably be prohibited.

NC OneMap

David mentioned the 2020 image cache generation is 70-80% complete. This cache will replace the imagery currently in place in the NC OneMap "latest cached" image service, for the coastal plain. Lastly, he said NC OneMap staff have been working with DEQ-DWR to remove old version of their data from NC OneMap and replacing it with current data pointing directly to their AGOL website.

NextGen 911

Matt McLamb reported that the NextGen911 project is marching forward. Sixty-one of 115 primary PSAPs across the state are now i3 ready. Their data have passed all the checks and is ready for the migration to take place. Matt added that cities and counties are continuing to put in a great deal of work to get their data prepared. Project staff continue to work with bordering states to correct data overlaps and gaps.

The NG911 project is asking all PSAPs to have their data ready by May 3rd at the latest.

Other Business

Paul raised the business of the SMAC bylaws. They have been slightly modified to reflect the correct state statutes and bring them in line with those of the other GICC subcommittees. The motion carried to adopt the SMAC bylaws. They will now go to the GICC for final approval.

In-meeting Task Review

- Report to USBGN the outcomes of the votes on Stiles Mountain and Simone Mountain.
- Add AddressNC data schema review and vote to April SMAC meeting agenda.

Adjourn