

Statewide Mapping Advisory Committee Meeting

Wednesday, July 15, 2020 1:30 – 3:30 PM

Cisco WebEx Virtual Meeting

Welcome/Introductions

In attendance: Paul Badr (Chair), Alice Wilson, Camille Tyndall-Watson, Cam McNutt, Gary Thompson, John Bridgers, John Farley, Jeff Essic, John Lay, Ken Taylor, Marcus Bryant, Rich Elkins, Robert Coats, Stephen Dew, Sean McGuire, Silvia Terziotti, Tim Johnson, Matt McLamb, Ann Verrill, Colleen Kiley, Ben Shelton, David Giordano

Minutes from the April 15, 2020 meeting were approved.

Tim introduced Colleen Kiley as the new CGIA Coordination Program Manager.

Framework+ Datasets

Orthoimagery

Ben Shelton briefed the SMAC on the 2020 orthoimagery project. It includes 27 counties along the coast and requires coordination with several military installations. The 2020 imagery is in the QC phase now using the project's VOICE web application. The goal is to deliver the final imagery to the PSAPs in November 2020, which would be 4-5 weeks earlier than the last year's delivery.

False and true color products will be delivered. Four-band MrSID files (5,000' x 5,000' tiles) will be created at 20:1 compression. There will also be MrSID county mosaics at a 50:1 compression in 3-band RGB and 3-band false color IR. NC OneMap will include the 4-band imagery.

The 2021 Eastern Piedmont imagery project has been approved by the NC 911 Board. The contracting phase has been started. It includes 26-counties. Communication has begun with Fort Bragg to allow contractors to fly-over the installation. Imagery acquisition for the entire project area will begin in February 2021.

Cadastral

John Bridgers reported that 87 counties provided updated parcel data in the 2nd quarter of 2020, along with 66 counties in Q1. Overall in 2020, 94 counties have uploaded parcels to the transformer, and all counties were updated in 2019. Counties are encouraged to update their parcels in NC OneMap quarterly, however a few counties only have updates twice a year (as it is tied to their tax billing system).

Because some common fields are not consistently populated (site address, parcel use description, present use value, last sale date) the parcels team will meet to discuss whether designating fields as "required", "recommended", or "optional" should be done. If there is a decision to move forward the group will vet with stakeholders.

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Elevation

John Lay informed the SMAC the processing for the remainder of the DEMs and the contours is complete. The next step is for the NC Geodetic Survey to QC and seal the products. This will begin soon. The date the contours will be ready and publicly available is unknown at this time.

The contours (1 foot) are stored by county and tile. The file sizes are enormous and makes storage and accessibility difficult. David Giordano offered to talk to John about storage of the contours within NC OneMap when the time comes.

Hydrography

Cam McNutt reported the hydrography project has been pushed back at DEQ to early 2021. Paul Badr asked if Cam has any use for the contour data previously discussed. Cam responded that DEQ would greatly like the contour data. They could be used in designing storm water control measures. The more accurate the contours, the better.

Geodetic Control

Gary Thompson informed the SMAC that the NGS has delayed the implementation of the 2022 reference frame due to COVID-19 until probably 2024. However, the deadline for states to submit plans to the NGS is still December 2021. There was also a deadline for the migration of the state plane coordinate system. Gary submitted this as well and the NGS accepted North Carolina's plan for the new state plane coordinate system.

The delay of the 2022 reference frame could cause problems as it relates to the retirements of the US survey foot. The original plan was to move to the international foot at the same time as the 2022 reference frame. The NGS still plans to retire the US survey foot at the end of December 2021. It is Gary's hope that the US survey foot will be delayed as well.

Administrative/Governmental Units

County Boundaries:

Gary told the SMAC that surveys Chatham-Harnett-Wake, Alamance-Guilford, Harnett-Wake, and Harnett-Chatham have been completed.

As far as boundaries with other states, work continues with the Virginia Governor's Office on that boundary. By Virginia law their General Assembly must create a boundary commission. That has not happened yet. The Georgia Governor has vetoed the creation of a Georgia boundary commission, so no work has begun on that border.

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David added that he and Watson Ross, the NC Geodetic Survey GIS manager, completed work to add their official, approved county boundaries to NC OneMap. As Watson updates the NCGS database with new boundaries those will automatically be reflected in NC OneMap.

Municipal Boundaries:

John Farley has nothing to report. John Bridgers added that progress will be made as the Working Group for Municipal Boundaries (WGMB), headed by him and Bob Coats, advance on a county pilot project. COVID-19 has hampered plans. John Bridgers has noticed that counties are submitted more detailed plans, which will be of benefit for NC DOT. Paul asked for John Bridgers and Bob to send him an email to summarize the status of where things are with the WGMB and any help they might need.

ACTION ITEM: John Bridgers and Bob Coats to summarize status of WGMB, current obstacles impeding progress, and any assistance they might need, in an email to Paul Badr.

Transportation

John Farley said DOT has had a lot of oversight put on it by a recent General Assembly session law. DOTs focus now is only priority projects. DOT-GIS has narrowed its attention to only supporting those projects with spatial analyses where needed. ISRN development continues, however.

Addresses

Anna Verrill reminded everyone the AddressNC team will be creating a new dataset with address data coming out of the NextGen 911 project. The team is also working with the 911 Board staff on a data governance strategy for using any data from the NextGen 911 project, not just addresses. Once a draft is in place it will be shared with the SMAC and GICC. The strategy will need to be in place before updates are provided to the National Address Database.

The AddressNC steering committee has been established. They will collaborate on the following goals:

- Advise on the data update process and new schema (any materials produced for this will be provided two weeks before the SMACs October meeting, and if recommended for GICC approval, 30 days to that body before their November meeting).
- Advise on any web services and tools created for the project and test them.

The kickoff meeting for the steering committee is tomorrow.

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Working Groups

Hydrography Working Group

Cam told the SMAC the hydro working group met at the end of June. The DEQ Headwaters group continue to do their mapping to define the resolution of the reach network they will be putting together. Hopefully, the hydro working group will have something to look at in the next 60 days or so.

The ATLAS hydro project has stopped for now. However, the team was able to add unique identifiers to the reach network for all streams. Cam hopes to have data examples at the next SMAC meeting.

Orthoimagery and Elevation

Gary said the ortho committee met last Monday and discussed:

- the update of the case studies in their paper about infrared (IR)
- LiDAR collection by NOAA and USGS, especially topobathy

NOAA recorded an hour-long presentation on topobathy products. Gary offered to get this presentation to SMAC members if they like.

NC Board on Geographic Names

Cam told the SMAC the NCBGN had no new names to review when they met in early June. The group reviewed their procedures for naming issue that come their way and indicated a desire for as much input from other entities when possible, so the recommendation to the SMAC will be well-sourced.

The group also discussed the discrepancies between the set of names contained in the GNIS (Geographic Names Information System) and those in DEQ Water Resources (DWQ). Cam believes the next iteration of the DWQ names product will contain references to the GNIS names for the hydro features contained within it. There are about 12,000 names in the DWQ database. The differences between GNIS and DWQ are approaching 30%-40%, although some name discrepancies are minor.

Working Group for Municipal Boundaries

John Bridger's report is contained in his earlier comments for Municipal Boundaries in the Framework+ discussion.

2022 Reference Frame Working Group

Gary indicated he had nothing to add other than what he previously discussed in the meeting.

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Regular Status Updates

USGS/National Geospatial Programs Office

National Hydrography Update:

Silvia Terziotti gave an overview of the national hydrography update. The goal of elevation-derived hydrography (EDH) is to create features that are horizontally and vertically integrated with the 3DEP bare-earth DEMs. Requirements for EDH can be grouped into two main categories: 1.) Acquisition specifications, and 2.) Representation, Extraction, Attribution, and Delineation (READ) Rules. Tools and QC procedures are now being developed for Alaska and a couple of pilot areas.

Silvia's full presentation can be found at: <https://files.nc.gov/ncdit/GICC-SMAC-USGS-Hydro-20200715.pdf>.

Tim asked Cam if the Hydrography Working Group would be reviewing the new USGS specs. Cam indicated yes. This is an important task as one of the objectives of the GICC is to review federal standards and provide feedback and potential use in developing datasets for North Carolina. Hydrography is a GICC priority, so it is even more important that the working group consider the specifications and inform the Council.

ACTION ITEM: The Hydrography Working Group to review the new USGS hydrography specifications.

NC OneMap

David reported that the migration of NC OneMap infrastructure to Amazon Web Services (AWS) is progressing. A big hurdle just completed was converting of imagery (2010 and later) to a format most-suitable for cloud storage and usage.

NextGen 911

Matt McLamb briefed the SMAC on the NextGen 911 project and reported things are moving along nicely. Of the 117 PSAPs in North Carolina all have been on-boarded, which means they have either received one-on-one training or attended a small-group workshop. Thirty-five PSAPs are now i3 ready.

The project team, 911 Board, and GeoComm continue outreach via virtual meetings, emails, and phone calls. Also accomplished has been data sharing with neighboring states.

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Other Business

Steve Averett brought up the topic of metadata. He was reviewing the materials on the NC OneMap website created to aid in migration to the new metadata profile that had been developed. The resources were based on the technology at the time and do not reference new software such as ArcGIS Pro and ArcGIS Enterprise. Steve asked the SMAC if the metadata committee could discuss this topic and come up with a plan to refresh these migration tools/documents to reflect the newer software most people use.

David indicated Sarah Wray is the chair of the metadata committee and it will be well-worth reaching out to her to discuss this topic. Paul asked that the SMAC receive an update at its next meeting. Steve volunteered people in his office that can help with a refresh effort. Cam indicated DEQ has cross walked the state metadata profile with ArcGIS Online metadata requirements and offered this as a resource to help.

ACTION ITEM: CGIA to contact Sarah Wray about refreshing the current metadata documents and tools on the NC OneMap website.

In-meeting Task Review

- Working Group for Municipal Boundaries update to Paul (page 3).
- Cam and the Hydrography Working Group to review the new USGS hydrography specifications (page 5).
- CGIA to reach out to metadata committee chair Sarah Wray about updating metadata documentation and tools on NC OneMap website (page 6).

Adjourn