

# Statewide Mapping Advisory Committee Meeting

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

Cisco WebEx Virtual Meeting

## Welcome/Introductions

In attendance: Paul Badr (chair), Alice Wilson, Anna Verrill, Ben Shelton, Cam McNutt, Camille Tyndall-Watson, Colleen Kiley, Drew Pilant, Gary Thompson, Jeff Bridgers, Jeff Essic, Marcus Bryant, Rich Elkins, Bob Coats, Stephen Dew, Silvia Terziotti, Sean McGuire, John Farley, Ken Taylor, Tim Johnson, Matt McLamb, David Giordano, Amanda Paton.

Minutes from the January 29<sup>th</sup> meeting were approved.

## Framework+ Datasets

### Orthoimagery

Ben gave an update on the 2020 Coastal Imagery project (27 counties) along the NC coast. Five contractors are collecting the imagery. The primary challenge in the project is the coordination with the military installations in the project area – Harvey Point, US Coast Guard in Elizabeth City, USAF Dare County bombing range, Camp Lejeune, Cherry Point, and the Sunny Point Army ocean terminal. All the imagery was collected by March 9<sup>th</sup>. Imagery acquisition was difficult because of rainy, cloudy, and snowy weather through parts of January and February and military GPS interference training on 3 different occasions. In all there were about 8 days of good flying weather to collect the data. Having 5 contractors was key as it enabled the imagery collection using 10 aircraft.

The project is currently in the production phase. A workshop was just completed where the radiometry and consistency were established across all vendors. Quality Control is scheduled to begin in early June. Counties will have access to the QC system to review the imagery in their jurisdiction. This will continue through August. The goal is to have the deliverables finalized and ready for distribution to the 911 community and county GIS offices by mid-November.

### Cadastral

John reported that all 100 counties were updated at some time in 2019. The first quarter of 2020 saw 66 counties provide updates. Q2 refreshes are underway – so far 18 counties have updated. It is expected not every county will have updates every quarter. Some counties only update their parcel data twice a year. The parcels team will reach out to individual counties beginning in late April/early May. Currently there is only 1 county whose parcel data is a year old.

An ongoing issue is the inconsistent way some commonly used fields are, or are not, populated. Examples are Site Address, Parcel Use Description, Present Use Value, and Last Sale Date. In some cases, even if the county would like to populate fields like these they cannot, because their CAMA system cannot accommodate it. The parcels team is discussing the possible designation of fields as “required”, “recommended”, or “optional.” This will need to be vetted with groups such as the tax assessor’s association, NC Department of Revenue, and CAMA software vendors.

## Elevation

Colleen provided an elevation update and reported all 100 counties now have 1-foot contour data. The data are tiled and is quite large. It needs to be QCed and then sealed by Gary Thompson. File sizes range from 5-60GB per county.

There is also complete coverage for DEMs based off the most current version of LiDAR. There are 3', 5', 10', 20', and 50' DEMs for all 100 counties. These will have to be QCed as well. Emergency Management is discussing with Esri a way to distribute this data based on a platform they are assembling that will share big data.

Gary added information about the LiDAR that was collected in late 2019 and early 2020 in eastern NC. Both were funded as a result of Hurricane Florence. Data are 100% collected and now being processed. NOAA is also collecting topobathy along the coast. This collection effort is 89% complete. Imagery was collected and is 75% complete. Gary will work with Colleen to get this data available for anyone's use – probably early 2021.

## Hydrography

Cam reported that DEQ is developing a named stream dataset based on 1:24000-scale geometry and is attributed with water quality assessment information and classification. Data are updated every 2 years, sometimes more frequently. The goal is to move the data to a geodatabase that contains the hydrography linework and the water quality assessment tables going back to the year 2004 and to serve that as a feature service.

DEQ is still evaluating whether to migrate their business data to the geometry being developed by DOTs ATLAS project.

## Geodetic Control

Gary told the SMAC that the NC Geodetic Survey (NCGS) submitted a plan to the National Geodetic Survey (NGS) for the 2022 reference frame. The NGS accepted the plan and the transformation parameters.

He also revisited the topic from a couple of years ago of a company called LightSquared that wants to build a nationwide 5G cellular network. The company restructured after filing for bankruptcy and is now called Ligado. Gary reported there's a good possibility the Federal Communication Commission (FCC) will approve the Ligado network. The Department of Defense wrote a letter recently outlining potential problems with approving it. Gary will keep the SMAC posted as things develop.

## Administrative/Governmental Units

### County Boundaries:

Gary and the NCGS are currently working on 12 county boundaries. The latest are the Davie/Yadkin and Cumberland/Harnett borders. NCGS is also working with the Governor's Office and the state of Virginia to develop a state boundary with the Joint Boundary Commission.

### Municipal Boundaries:

John Farley reported the Powell Bill boundaries have been reviewed and published.

## Transportation

John Farley stated that even though DOT is having financial problems with the lack of money from car sales and fuel tax due to COVID-19, ISRN data was still able to be updated. No new money was needed for this refresh. The ISRN is the Integrated State Road Network and was initially developed by DOT 12-15 years ago, as a routable, geocodable road centerline for all 100 counties. DOT's ambition is to maintain a road network, regardless of the data source. If it is being driven on, DOT would like to map it as soon as possible.

## Addresses

Anna provided the update on the AddressNC. The full statewide update is tied to the NextGen911 project. The NextGen911 schedule is encountering slight delays because of the COVID-19 pandemic. In the coming months the AddressNC team will reevaluate the scope, milestones, and timelines of the project. Part of this will be to reengage with the user community to see how an AddressNC dataset could be used aside from NextGen911. Future discussions will include which services can be provided such as address verification and geocoding. By the next SMAC meeting the AddressNC team will have a better idea of project scope, milestones, and timeline for an updated AddressNC layer. A draft schema may also be ready.

Anna also provided an update on the National Address Database (NAD) maintained by the US DOT. North Carolina is represented in this database based on the 2014 AddressNC data set. Partial updates are encouraged, and NC is considering providing such an update based on an extraction of the NextGen911 Site Structure Address Points (SSAP) layer. This would include 17 counties to date based on those that are NextGen911 "i3 ready."

The next steps to providing the NAD update are to coordinate with the US DOT to determine requirements, prepare the SSAP layer by extracting the 17 counties, removing attribute fields not needed, adding and populating NAD-required fields, and create a metadata record.

## **Presentation**

### Survey vs. International Foot

Gary presented to the SMAC the recommendation on US survey versus international foot. The SMAC will make a recommendation on this to the GICC based on Gary's presentation and subsequent discussion.

The NGS will decommission the US survey foot. The difference between the US survey and international foot is only .01 foot/mile, however where it becomes a problem is when dealing with large numbers such as State Plane coordinates. Starting in 2022 the federal government will only recognize the international foot. In NGS transformation tools, there will only be US survey foot option for conversions to and from any datum prior to 2022.

The opinion from a majority of groups Gary has talked to has been to change to the international foot. The opinion of the NC Society of Surveyors is to stay with the US survey foot, however the NC Property Mappers Association is neutral on this topic. The NC Geodetic Survey Advisory Committee has recommended the change to international foot. Gary's recommendation is to use international foot starting with the 2022 datum. The change to international foot will impact all mapping and databases.

John Farley asked if there is a migration to international foot, will tools or guidance be provided to assist agencies to make the conversion? Gary responded the first step is to determine if NC is going to make the switch, and if so, then put together guidance on how it should be done. Even if it is determined to stay with US survey foot, guidance

will still need to be present on how to deal with conversions, etc. There is still time to think through a decision then decide on how best to provide direction to those impacted.

After deliberation the SMAC approved the recommendation to the GICC to move to the international foot. The Secretary of State's office abstained from the vote. The SMAC will continue to seek communication from anyone in the community that is interested in commenting on this direction.

## **Working Groups**

### Hydrography Working Group

Cam reported that ATLAS contractors have been busy assigning unique IDs to the hydrography streams that have been added to the network. They have also added another set of attributes for anadromous fish spawning areas. It is Cam's hope that by the next SMAC meeting he and the contractors will be able to present what has been done with ATLAS and how it can be used in modeling.

### Orthoimagery and Elevation

Gary told the SMAC the working group met last Monday and received updates on the imagery and contour creation projects. The Dept. of Agriculture reported all indications show agriculture imagery will be flown this year in NC.

### NC Board on Geographic Names

With no pending names on the NCBGN docket, Cam will revisit the committee's procedures and what kinds of information the group receives to determine recommendations.

### Working Group for Land Cover

Ken reported he will give the committee an update on the outcome of the land cover survey at the next SMAC meeting. Tim added that it might be beneficial to hear from Nate Herold about a land cover collection effort just completed in Brunswick and New Hanover counties.

### Working Group for Municipal Boundaries

John Bridgers stated the BAS has been submitted to the Census Bureau. There are about 46 counties and municipalities that have not responded this year. Progress has been made as last year there were 120 that did not reply.

Since January 1<sup>st</sup> of this year there have been 192 annexations submitted to the Secretary of State's office.

### 2022 Reference Frame

Gary said the reporting on the reference frame earlier in the meeting was sufficient and there is nothing to add.

## **Regular Status Updates**

### National Geospatial Programs Office

Silvia reported that Gary's earlier comments about LiDAR adequately covered the topic and had nothing to add.

### NC OneMap

David told the SMAC he and Brett Spivey are drafting a NASCIO nomination award paper for NC OneMap. NASCIO is the National Association of State Chief Information Officers.

### NextGen911

Matt told the SMAC of the 127 PSAPs in the state 103 have been onboarded. This means they have had one-on-one meetings, attended a workshop, or participated in an onboarding conference call. A dashboard has been created to show the progress. It can be found at the website [it.nc.gov/next-generation-911](https://it.nc.gov/next-generation-911) and clicking on the "NG911 GIS Services" button.

The 911 Board, CGIA, and GeoComm and continuing outreach efforts via virtual meetings, emails, and calls. Onsite visits have been put on hold due to COVID-19. The groups are conducting as much work as they can remotely. Matt asked organizations to upload as much of their data as possible from the beginning so a complete picture can be formed. CGIA can assist editing data where needed based on staffing levels and resources available.

## **Other Business**

None.

## **In-Meeting Task Review**

## **Adjourn**