Statewide Mapping Advisory Committee Meeting

Minutes

Wednesday, April 15, 2015; 1:30 PM – 3:30 PM
NC League of Municipalities
Executive Board Room, David E. Reynolds Building, 308 W. Jones St., Raleigh, NC

Welcome/Introductions – Ryan Draughn, Chair, welcomed Jeff Essic, Alice Wilson, Sarah Wray (for John Farley), Sean McGuire, Hope Morgan, Cam McNutt, Stephen Dew, Jeff Brown, David Giordano, Tim Johnson, and on the phone Silvia Terziotti, Steve Averett, Pam Carver, and Tyrel Moore. Visitors: Mike Wittmer (NCDOT) and Joe Sewash (CGIA)

Minutes
The committee approved the January 14, 2015 Minutes.

Framework+ Datasets
Ryan called on members to report on opportunities, development, maintenance, and issues for Geospatial Framework datasets for North Carolina.

- ORTHOIMAGERY
  Tim Johnson (CGIA) provided a brief status report on the Orthoimagery Program. The Northern Piedmont and Mountains (2014) phase all but complete, with products delivered to Public Safety Answering Points (PSAP) in January in a series of seven regional meetings and released on NC OneMap at the beginning of February. The 60-day acceptance period is complete with no quality issues identified by the recipients. USGS reviewed the Greensboro/Winston-Salem/High Point area and found no quality issues. The final step is to prepare a final report and close out the project.

  In the Southern Piedmont and Mountains (2015), all images were acquired by April 12. Post processing will occur this spring, with quality review using the VOICE online system taking place August through December, followed by final product delivery in January. Five contractors are assigned to study areas (4 or 5 counties). Tim displayed an acquisition map showing when areas were acquired. He explained that this winter was challenging for flight contractors because of frequent cloud cover. Outreach is underway including some of the Land Records workshops.

  Quality control proceeds in 5-week cycles as processed imagery is delivered for each county. Early processing and review of tiles that overlap study areas promotes consistency between study areas.

  CGIA submitted a proposal to the NC 911 Board for the next four-year cycle of imagery starting in 2016. The Board approved unanimously on February 27. The four phases will use the same specifications and the same regional configurations with the exception of a few counties. To combine flights over the Fort Bragg and Camp Mackall military installations into one phase, not two as previously, three counties (Moore, Richmond and
Scotland) will move from phase 4 to phase 2. Phase 1 will gain two counties (Duplin and Columbus) previously in phase 2. Phase 4 will be smaller by three counties. Phase 3 will remain the same. Delivery of 2016 imagery will occur in January 2017. Total cost for the four-year cycle will be $15.5 million.

**TRANSPORTATION**
Sarah Wray (NCDOT) reported that the ROME Project is making progress on an extensive quality control process after the first interim delivery of data. A complete, published set of seamless statewide centerlines for all public roads (full publication) is now scheduled for release in early 2016 and will be maintained on a quarterly basis. NCDOT used the preliminary data for annual federal reporting. Statewide delivery is scheduled for this summer, and the system will go live in the third quarter, with full publication to follow (including data models and new products). NCDOT will work with the SMAC and the coordination structure to communicate what is new and different about the products, including coordination with NC OneMap. Data updates for certain products could be more frequent in the future. For example, the Linear Referencing System is updated daily internally. Future work includes efforts to streamline maintenance workflows within NCDOT and between state and local partners.

**CADAstral**
Jeff Brown (CGIA) and Pam Carver reported that the NC Parcels Project is making progress in building a statewide compilation of parcels. Beyond the original 25 counties, 51 counties have been published in 2015, another 15 counties are in progress, and 9 counties are scheduled for April and May. The project team has been engaging counties and assisting with transformations. The goal continues to be 100 counties by the end of June, including updates to the original 25. The online tool will make maintenance practical, with a goal of updates twice per year. Hope Morgan requested a demonstration of the data products (fields and values) at the next meeting. In the meantime, web services for parcels are updated as counties are completed.

**ELEVATION**
Hope Morgan (Department of Public Safety) reported on North Carolina LiDAR. Since the last SMAC Meeting, data acquisition was completed for Phase 3 including successful collection over the Fort Bragg installation. Phase 1 (2014 coastal) from USGS is in the process of classification upgrade to match Phase 2 (2014) acquired by North Carolina. This is an automated process. There are some differences in the ways source data were classified that is resulting in some anomalies in vegetation classes that will not be edited; explanation to users will be required. This is limited to classification of points and does not affect the quality of the terrain surfaces. Phase 2 status is being tracked in ArcGIS Online.

Processing of 2015 data includes calibration to ground control and classification; data may be expected in two to three months. Hope offered to present pilot areas to SMAC for review.
Hope demonstrated the spatial data download application, now in operation for 20 counties in Phase 2. Consumers may download data in limited areas of interest (about a square acre) for LAS points or digital elevation models by tile. Datasets for larger areas are available on request. She demonstrated the functionality and encouraged committee members to use the site and give her feedback particularly on the NCID authenticated “clip and ship” function. She cautioned that state agencies may not be able to find the website because of firewall issues. NCDPS is working with OITS to resolve. Hope expects the web application to be finalized within six months.

A plan for derived elevation products was discussed below.

- **HYDROGRAPHY**
  Cam McNutt reported that the Division of Water Resources (DWR) has downloaded the NHD and watershed boundary dataset dated January 28, 2015 and plans to use that snapshot of the NHD for any stream updates by DWR. All DENR rules are being re-adopted as mandated. This includes DENR rules related to streams, buffers, setbacks, etc. This static version of NHD is DWR’s current solution to provide reference data for the rules that are modified only by DWR, not by USGS in a separate workflow. DWR is documenting any changes it makes to the copy of NHD for future reference.

  DWR has also produced an integrated drainage area dataset to use for water quality planning information and inter-basin transfer water resources information. This creates a single geometry, resolving disparate sources. Regarding attributes, basin names may change but it is not clear yet. This means that 12-digit hydrologic units are in a consistent geometric hierarchy up to the boundary level. For planning and implementation purposes, the data expands to 8-digit hydrologic units that go outside of North Carolina boundaries to inform inter-basin transfer that involve two states. This is under DENR review.

  Cam also noted that 12-digit hydrologic unit attributes from the NHD download do not match GNIS names entirely. This may have implications for tracking instances of offensive names in hydro data.

  DWR has three staff members, funded by NCDOT, who are responsible for mapping modeled headwater streams as a spatial dataset. This idea is to model a stream to its intermittent sources. This applies to area amounting to about half of the state. DWR is developing workflows that will integrate new stream data into the rest of the streams layer. They will use a process that loses accuracy as topography flattens. DWR will present the project to the Stream Mapping Advisory Committee to identify more business needs for stream mapping.

  Cam has additional information to share during his report on the Stream Mapping Advisory Committee (see below).

- **GEODETIC CONTROL**
  Jeff Brown read notes from Gary Thompson in his absence. Regarding geodetic control, Gary is speaking at the Geospatial Summit (sponsored by the NOAA-National Geodetic
Survey) this week on three topics: 2022 datum, Height Modernization activities in NC, and benefits of the 3DEP program in NC. More information on the replacement of NAD83 and NAVD88 in 2022 is available on this website: http://www.ngs.noaa.gov/datums/newdatums/index.shtml.

Gary recommends that SMAC develop a working group to develop a transition plan to the new datums for state and local government agencies. The plan for the new datums to take velocity into account for science purposes complicates application for mapping and surveying. Hope Morgan explained that Gary and others are considering solutions that reflect fixed positions relative to plates. Gary’s goal is to begin planning and identifying solutions. Hope is interested in a new working group as is Ken Taylor (DENR-NC Geological Survey). Jeff will consult with the Local Government Committee for participants. Ryan will work with Gary to identify more participants. Sarah will consult with John Farley regarding someone from NCDOT Photogrammetry.

Also, Gary noted the addition of two Continuously Operating Reference Stations (CORS) in Raeford (NCRF) and Rosman (P779). See NC Geodetic Survey website for more information.

Ken Taylor added that magnitude 8 earthquakes around the world can affect North Carolina’s geodetic reference in measurable ways up and down as a caution around those events. He observed that velocity in North Carolina does not have practical effects on local government geospatial data where everything is moving in the same direction at the same time. Some states have active plates where velocity is a concern, but not North Carolina.

- **GOVERNMENTAL UNITS**

Gary Thompson reported that, regarding the North Carolina-South Carolina boundary, NC Senate Bill 575 was introduced, similar to legislation introduced in South Carolina. If all goes as planned, the reestablished NC-SC boundary will be finalized in both states by 1/1/2016. NC plans to start work on the NC-VA boundary soon. Regarding county boundaries, NCGS is presently working on six (6) county boundary projects:

- Cabarrus – Rowan
- Alamance – Guilford (H461 has been introduced)
- Chatham – Harnett – Wake
- Jackson – Macon
- Guilford – Randolph
- Davie – Yadkin

As always, county boundary data are available from NC Geodetic Survey and NC OneMap.

Regarding municipal boundaries, Sarah reported that NCDOT and the Department of the Secretary of State plan to meet to coordinate efforts to improve the statewide municipal boundaries dataset based on the Powell Bill collection and the Boundary and Annexation Survey.
• **Addresses**
Joe Sewash (CGIA) had three updates points. First, in January CGIA submitted the AddressNC 2014 update to the Geography Division of the Census Bureau for the Geographic Support System Initiative (GSSI). NC is one of seven states providing statewide coverage to the Census. This data can serve as a backup or alternative to the Local Update of Census Addresses (LUCA) process. Census is reviewing the data and plans to provide feedback in the next few months.

Second, Stan Duncan and Joe represented NC at the National Address Database Summit in Baltimore last week, hosted by US DOT and the Census Bureau over two and a half days. There were over 100 participants and observers. The summit met to establish a path forward for integrating address datasets, both address points and address ranges, into the National Geospatial Data Asset Plan. The facilitator has an obligation to provide some of the deliverables within 30 days. The participants will be integrated in a process to evaluate recommendations. US DOT Chief Information Officer Richard McKinney will present recommendations directly to Transportation Secretary Foxx.

Third, the NC Next Generation 911 Committee is in the final stages of selecting and engaging a technical consultant for establishing a concept of operations document. This COO document will include functional requirements, fiscal planning, acquisition strategies, and critical path across ESI network development, GIS dataset development, and PSAP operations. This will provide a 5-6 year master plan for building and integrating and transitioning from current technologies that will start going away in 2018. Completion is planned for 2020. The contractor is expected to be on board next month. Once the concept of operations document is in place, GIS outreach in the third quarter will include working with PSAPs and local GIS coordinators on identifying available NENA standards) still in development, and planning for outreach and data development. PSAP have varying GIS capabilities.

**Working Groups**

*Standards and Practices*

Cadastral Manual
Jeff Brown reported that Tom Morgan is presenting to the Association of Tax Collectors today. Tom wrote that the Cadastral Manual is in the initial review process, selected industry leaders, the North Carolina Property Mappers (NCPMA) Executive Committee and the Joint Land Records Task Force (this is a collective stake holders group) sponsored by the NC Bar Association. Tom has requested comments by the first of May. In addition the NCPMA Executive Committee is exploring the possibility of using the manual as the source of programming for a class at mapping school on advanced topics.

Oblique Imagery
Ryan led a discussion about the “Guidance for Acquisition of Oblique Aerial Imagery and Software System” prepared by the Working Group for Orthophotography Planning.
He distributed a copy last week for review and comment. Stephen Dew (Guilford County), who led the effort, summarized the contents. Guilford County acquired a new set of oblique imagery last week, 1 TB in size, including two levels of views. He added that the ASPRS will present a standards document of oblique imagery this spring. Ken Taylor observed that oblique imagery tends to be acquired after a natural disaster, sometimes by more than one federal agency. He encouraged the state to communicate requirements to federal agencies to make imagery collection valuable to the state as well.

Jeff Brown noted one change in the document – an outdated inventory map (counties acquiring oblique) will be omitted. The focus of the document is to inform local government practice. Tim Johnson suggested wording to clarify that the vendor list may not be comprehensive. The committee concluded that the document, with minor edits, is adopted by SMAC and is ready to post as a practice document on the Council website.

**Metadata Implementation**

Ryan acknowledged the success of the ad hoc metadata committee in developing the new standard, and stated the importance of implementing the new standard to realize the value. At the request of Council Chair Stan Duncan, Ryan agreed that SMAC will take on implementation with a measureable objectives for adoption, learning, and awareness by geospatial data managers.

Based on consultations with metadata committee members and the Local Government Committee, Jeff Brown offered an outline of a plan for proceeding in a phased approach guided by a new ad hoc metadata training committee staffed by CGIA. Phases would cover:

- Review of tools and techniques
- Development of a metadata template parcels to test with local government stakeholders
- Creation of a metadata template for state facilities to test with state data managers
- A presentation file to organize content
- A series of webinars for data managers
- Videos for self-learning and review
- Workshop content for in-person training and metadata record development
- Workshops for local government users
- Training session for state government users
- Updates to metadata resources including tools for editing
- Report on results and lessons learned

Jeff proposed that CGIA

- Manage the initiative as a project including communication, training content, products, sessions, and outreach
- Manage a contractor metadata specialist if applicable to assist with training content, products, and tasks
- Consult with other subject matter experts as needed
- Staff a new ad-hoc Metadata Training Committee
• Involve LGC and SGUC in developing content and products, and in outreach and training sessions

An Ad-hoc Metadata Training Committee would collaborate with CGIA to prepare content and products for online and onsite training, and report to SMAC on a quarterly basis. SMAC would oversee the project as a priority effort to implement standards and practices for statewide benefit. Collaboration with Local Government Committee and stakeholders will be essential.

In a discussion, Sarah Wray volunteered to chair a new training committee, building on the experience of the ad-hoc metadata committee that recently completed its work. Steve Averett is willing to be on the group and volunteer the City of Greensboro as a pilot group to test tools and techniques.

Suggestions from the committee included identifying ways to offer credit for professional training (GISP, AICP, etc.). Hope Morgan suggested training local government trainers to implement the standard within jurisdictions is a sustainable way. This can take advantage of the professional organizations represented on the Council and its standing committees. Hope offered help from the NC Arc User Group for training. Sarah and Jeff will contact former members of the ad-hoc metadata committee. Cam McNutt volunteered and will work with the DENR GeoTeam to support this effort. Steve recommended Dan Madding based on his interest in training. Continued involvement of university experts would be valuable on a training committee. Practical tools and clear training materials, in versions specific to tools, will be essential.

Ryan expressed appreciation for the positive response of SMAC and looks forward to the formation of a metadata training committee.

NC Board on Geographic Names – Dr. Moore reported on two action items.

First, the NCBGN recommends SMAC approval of naming an unnamed stream “Barker Creek” in Granville and Vance Counties. This relates to historic preservation of a farm that has been in the family since the eighteenth century.

VOTED: SMAC approved the recommendation by NCBGN to approve the naming of Barker Creek.

Second, the NCBGN recommends SMAC approval of naming an unnamed stream “Penland Creek” in Buncombe County.

VOTED: SMAC approved the recommendation by NCBGN to approve the naming of Penland Creek.

As always, supporting files and documents were distributed to NCBGN. After careful research. Board members reviewed and commented favorably, pointing out compliance with USBGN principles. Final approval rests with the USBGN.
ORTHOPHOTOGRAPHY PLANNING – In Gary Thompson’s absence, Ryan led a discussion of the request by the Management & Operations Committee and SMAC to the Working Group to develop a plan for elevation products derived from new LiDAR data. This request was first stated to SMAC by John Farley and has received attention in other committees in recent weeks. Ryan explained that web services generated by NC OneMap from derived datasets from the old LiDAR data are consumed and will have value if updated after new LiDAR datasets are published. The intention is to update the following derived products:

- Statewide Elevation Contour Service
- Shaded Elevation Service
- 20-foot Digital Elevation Model Service
- Slope Elevation Service
- Shaded Relief Elevation Service
- Hillshade Elevation Service
- Aspect (Slope Direction) Elevation Service
- Contour shapefiles by county

As Hope Morgan explained in the last meeting, NCDPS is focusing on providing access to classified LAS points and digital elevation model datasets as the new LiDAR data are processed and completed. A service for 20-foot elevation models is doable but not at the top of the list for NCDPS. Other services are possible but not right away.

Ken Taylor observed that parts of NC are topographically dynamic as land is developed. Hope Morgan explained that current efforts are focused on updates and improvements to statewide LiDAR as a relatively static framework dataset that will not be updated for many years unless a new technology provides practical ways to maintain selected locations. NCDPS will track locations where data consumers are requesting LiDAR as an indicator of potential land change.

Hope added that contours are a derivative product that requires a lot of time to process and significant storage space to maintain. A large mosaic dataset will provide a source for most of the web services on the list.

Ryan has asked Gary Thompson to lead the Working Group in defining elements of a plan, including processing/maintenance responsibility and plan by product, work flows/communication to keep NC OneMap refreshed, a timeline for each product (e.g., number of weeks from LiDAR publication to NC OneMap), additional recommended products, and a communication plan. The Working Group meets on April 27. The group includes Sean McGuire, Hope Morgan, and Stephen Dew from SMAC and is staffed by Jeff Brown.

STREAM MAPPING ADVISORY COMMITTEE – Cam McNutt reported that the committee will meet next on April 29 to include more review of business needs. One business need has changed: EPA is no longer requiring DENR to use NHD for reporting purposes. DWR listed all rules (about 50) that reference streams represented on Natural Resources
Conservation Service (NRCS) soil surveys and United States Geological Survey (USGS) topographic maps. One rule stated that “State Mapping Advisory is the primary thrust to consolidate statewide mapping requirements and to advise the Coordinating Council on issues, problems, and opportunities relating to USGS programs and information.”

DWR divided rules into those that require provision of a map and those that require some action to protect water quality. Rule language about marking a topographic map and submitting it originated before prevalence of digital mapping. For rules requiring some action, if a stream was represented on a topographic map or soils map, it was subject to the water quality requirement. If not represented on one of those maps, rules did not apply even if a stream were evident in the field. Rules were customer friendly but did not result in comprehensive application to actual streams.

Rules that relate to streams are just out for public review. New language for stream buffer rules, for example, refers to three sources of streams. The soil survey maps (paper) persist as do the “most recent” topographic maps. Thirdly, a stream may be subject to the rule on regulated buffers if the feature is approximately shown on “Other maps approved by the Geographic Information Coordinating Council and by the Environmental Management Commission (EMC) as more accurate than those…” (NRCS and USGS maps). The new rule has requirements for EMC but no language about what the Council is supposed to do. Cam observed that draft language from DWR looks very different in the version issued. The rules are out for public review. Cam will send a link to SMAC.

**Regular Status Updates**

*NATIONAL GEOSPATIAL PROGRAMS OFFICE* – Silvia Terziotti reported that USGS conducted a survey of a number of state and federal agencies, similar to the effort on elevation previously. The Hydrography Requirements and Benefits Study was conducted in all 50 States, and with all Federal and Tribal governments. Overall there were:

- 532 individual responses
- 222 identified as Federal (23 Agencies identified)
- 202 identified as State (all 50 states represented)
- 53 identified as Regional or local government
- 10 identified as Tribal government
- 26 identified as Not for Profit (including academia)
- 19 identified as Commercial
- 595 Mission Critical Activities reported

Every State had a limited number of respondents that they could survey. In consultation with Stan Duncan and Tim Johnson, Joe Sewash and Cam McNutt were identified to be the State Points of Contact. The POCs identified 9 State and local respondents and invited them to participate in the Survey. They all participated:

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<tr>
<th>Name</th>
<th>Organization</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>David G. Jones</td>
<td>North Carolina Department of Agriculture &amp; Consumer Services</td>
<td>state</td>
</tr>
<tr>
<td>Sarah Sheldon</td>
<td>City of Asheville</td>
<td>municipal</td>
</tr>
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Currently the contractor (Dewberry) is reviewing the responses and will be compiling them by State. Liaisons and points of contact will review the summary and then plan workshops (or interviews) with questionnaire participants. The workshops can finalize any incomplete entries, discuss and consolidate responses, and identify the primary elements to be used in a state summary. The planned window to hold interviews will be from May 27 - July 21.

Silvia pointed out the Broad Area Announcement of LiDAR Data and noted that all questions about the BAA for 3DEP LiDAR data funds must be directed to: GS_BAA@usgs.gov. The liaisons are very limited in how much they can discuss and participate in the process. There will be a Public Workshop to provide information on how to submit pre-proposals and examples of how proposals are weighted. Many lessons were learned from the first time we did this last year. The Public Workshop will be led by George Heleine, Liaison, on June 18, 2015, at the USGS Raleigh Office. The meeting will be open to all interested parties.

Hope Morgan observed that timing for the many steps involved in a grant proposal and the complication of funding from the NC General Assembly. She suggested that a grant focused on data developed from LiDAR data related to streams or other datasets could be an approach that is not as dependent on timing. She is looking at the opportunity and welcomes contact for more information and ideas.

Regarding the NHD WBD Mapping Contracts and Partnership Call for Proposal, the USGS NGP is seeking stewardship proposals for projects that will improve the NHD and/or WBD. There are three areas of focus:

- Campaigns conducted by the National Geospatial Technical Operations Center (NGTOC) staff to refine and improve the database at a national level.
  - Primarily the NHD Plus High Resolution dataset
  - Tools, thinning data, value added attributes
- Building stewardship by providing funding to help offset staff costs and develop capacity for stewardship in states.
  - Help kick-start stewardship or attract agencies that don’t have funds to be stewards.
  - Develop plans for alternate models of stewardship
• Building value by providing support for adding content or tools to the NHD to improve the value of the dataset, thus improving the value proposition to stewards and users.
  o Improve current scale NHD
  o Improve local-res NHD using LiDAR
  o Add events to the NHD
Short proposals are due April 30 and must be submitted through the liaison. Please contact me if you are interested.

For NC orthoimagery, the Greensboro/Winston-Salem NGA Urban Imagery was submitted to USGS on March 6, 2015 and was returned on April 6, 2015 with no issues.

NC OneMap – David Giordano reported updates and revisions to the content of the Geospatial Portal. NC Parcels dataset is notable with content expanded to 76 counties available for download and as map services and feature services.

Current NC OneMap activities include the following:
  ▪ For the Geoportal, CGIA continues to explore technologies for improving the user interface and making the data more open and accessible
  ▪ Load balancing of the servers in two data centers is in progress as part of an OITS project that is just underway
  ▪ 2014 imagery was added in February as image services (2014 alone and integrated in “ortho latest”) and as downloadable tiles; there is also a new shapefile for imagery “seamlines” that identifies dates of acquisition of imagery exposures
  ▪ NC OneMap will continue to add parcels as counties are transformed
  ▪ Future work will include integration of the GeoPortal and NC OneMap websites

NC Geographic Information Coordinating Council

COUNCIL UPDATE – Tim Johnson gave a brief update on the February 11 Council meeting. There were no Council actions to report. New member Joanne Halls of UNC Wilmington represents the President of the University of North Carolina System. She has an interest in imagery including color infrared, and Tim and Jeff will work with her to engage university faculty and others across the system. The feature presentation was a preview of a display of state and local applications of GIS to business processes, called “Showcasing GIS in NC” that was scheduled for February 25 but was cancelled due to a winter storm. Council Chair Stan Duncan again asked two Council members to share their perspectives on the value of GIS to their organizations. This time, Dianne Enright of DHHS and Joseph Sloop of Forsyth County presented. The next Council meeting is May 13.

STATE GOVERNMENT GIS USER COMMITTEE – Sean McGuire reported that the State Government GIS User Committee, Executive Committee members continue to work on details of an Enterprise License Agreement with Esri. As before, a Master Purchasing Agreement will include availability of GSA pricing for licenses for local governments. SGUC members collaborated in the GIS Working Group and contributed to department
IT plans in efforts to make GIS an integral part of information technology in state government. SGUC continues to offer technical presentations to general members on a quarterly basis on current topics, e.g., Unmanned Aircraft Systems and Transportation Prioritization.

Local Government Committee – Alice Wilson reported that the Local Government Committee discussed the NC GIS Conference and suggested early submission of presentations that could be accessible online in the event of severe winter weather. The committee is interested in participating in metadata implementation. Also, the committee developed an outline for an e-book on the “Value of GIS” intended for a nonprofessional audience. Statements from Council meetings are good sources for brief, graphic descriptions of valuable applications of GIS. Ideas are welcome from local and state government GIS coordinators. Benita Staples of Mecklenburg County has joined LGC representing the Association of County Commissioners, and Kevin Jamison (Jackson County) and Chris Koltyk (City of Jacksonville) have joined the Working Group for Orthophotography Planning. The next LGC meeting is scheduled for May 27, 2015 at 2:00 PM.

Federal Interagency Committee – Silvia reported that the FIC elected members to the executive committee (Chad Ferguson, Julia Harrell, Denise Smith, and David Wyatt) and will have a general meeting on May 6 at the US Army Corps of Engineers in Wilmington, with topics including LiDAR and NOAA’s Digital Coast.

New Business
None.
Adjourn --The meeting adjourned at 3:45 PM.

2015 SMAC Meeting Dates

Wednesday, July 15
Wednesday, October 14