MSGIC Elevation Work Group Meeting Minutes
September 21, 2022
Virtual Only Meeting

Agenda

- Introductions
- Next Generation E911 Z-Axis
- Inflation Reduction Act of 2022
- Status of Maryland LiDAR: current and planned acquisitions
- InSAR
- Topo/Bathy updates
- Open Discussion

The meeting was well attended with approx. 20 participants from local, state, and federal government and private business.

The group had the following discussion:

Next Generation E911 Z-Axis

- Roger Barlow, USGS introduced the NextGen E911 Z-Axis program which is an effort to fund the collection of statewide LiDAR for the purpose of emergency response. Having this elevation information would allow dispatchers to route responders to the scene more accurately within tall buildings. He shared that QL1 data is required for this effort and funding discussions are still underway with E911 board, and there are still lots of discussion in general.
- Dawn Blanchard, Mission Critical Partners informed the group that they are working with GeoComm as a backend solution. They are focusing on using 2020 Montgomery County data as test bed and will be working with Montgomery Co PSAP. The first step is testing the existing data which they plan to begin Oct/Nov timeframe. MCP is developing a business case which will be used in conjunction with other educational materials and will be presented to the E911 board. They are willing to share as a MSGIC presentation when completed – mostly likely Winter Quarterly.
- There was some discussion about building extraction and whether FEMA was using Lidar for building extraction? Lee Brancheau, FEMA responded they were not. They performed a pilot on building extraction and saw a 60% success rate. FEMA is primarily using nationwide BING dataset for buildings layer.
- Roger informed the group that there are six Northern VA counties capturing lidar in Dec and are receiving machine generated building outlines (400sqft or larger) at no cost.

Inflation Reduction Act of 2022

- The Inflation Reduction Act of 2022 was not discussed at this time.

Status of Maryland LiDAR: current and planned acquisitions

- 2020 USGS Lidar: North Chesapeake Bay, MD & King George County, VA – this QL2 data is complete and delivered. Deliverables are accessible via Digital Coast https://coast.noaa.gov/digitalcoast/data/ Cecil Co has been processed and is available on MD

iMAP. ESRGC is working with DoIT to process the remaining counties (Harford, Queen Anne's, Somerset, Wicomico, and Worcester) and make all derivative products available on MD iMAP.

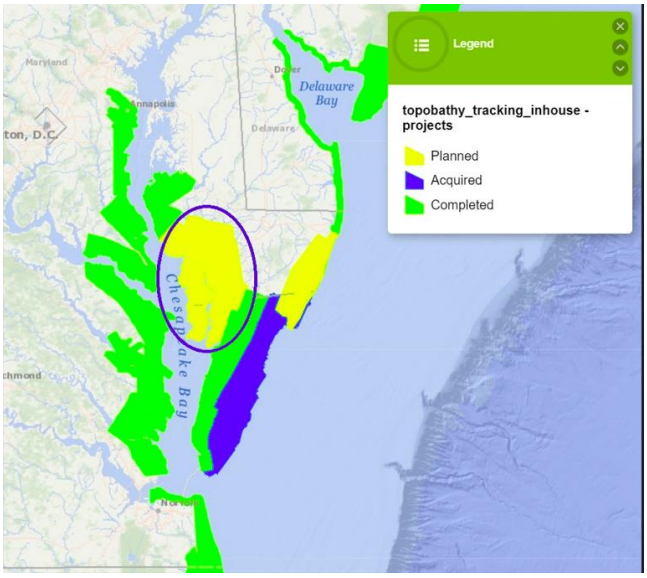
- The anticipated delivery of the Western Maryland lidar (Allegany-Washington-Frederick counties) is now May 1, 2023. Processing is moving along well towards the December 1st milestone. Pilot area was delivered end of June.
- Mid-Eastern Shore (Kent, Dorchester, Talbot, Caroline) – this potential collection will not receive USGS funding this fiscal year but possibly will be considered in FY24.
- Interest in a potential acquisition for Charles County was mentioned but no one was able to confirm plans for a collection at this time.
- There was some discussion about the best source for the most updated data. The following resources were shared:
    - US Interagency Elevation Inventory (USIEI) https://coast.noaa.gov/inventory/
    - NOAA Digital Coast website https://coast.noaa.gov/
    - SeaSketch https://www.seasketch.org/home.html
    - MD iMAP https://imap.maryland.gov/

InSAR

- Roger shared a presentation on InSAR (Interferometric synthetic-aperture radar) and its use in mapping subsidence and uplift from tectonic processes, karst, and ground water withdrawal subsidence. This is a future collaboration area between NASA, JPL, and USGS of both satellite and airborne sensors. The presentation will be made available.

Topo/Bathy updates

- "Potomac 1" Topo/Bathy is completed and available online at USGS national map https://www.usgs.gov/programs/national-geospatial-program/national-map This collection was able to map 92% of bottom. Washington County has expressed interest in using this data for search and rescue efforts as well as many other potential use cases.
- "Potomac 2" Topo/Bathy is in the final stages. Corrections were made and redelivery is expected soon. These two topo/bathy collections will together provide elevation data for 126 miles of the Potomac River, and about 4 miles of the Lower Shenandoah River with 100-meter buffer on both shorelines.
- See graphic for NOAA topo/bathy data complete and planned for Chesapeake Bay.



- USGS is to begin work on a Potomac River elevation integration product in Federal Fiscal Year 2023 integrating topographic and topo/bathy lidar-derived elevation data from Hancock, MD to the Chesapeake Bay.

Open Discussion

- There is a new USGS 3D nation report coming out soon.
- There is an upcoming internal workshop for “inland bathy”
- The next meeting was suggested for Spring 2023 and a call for discussion topics was made