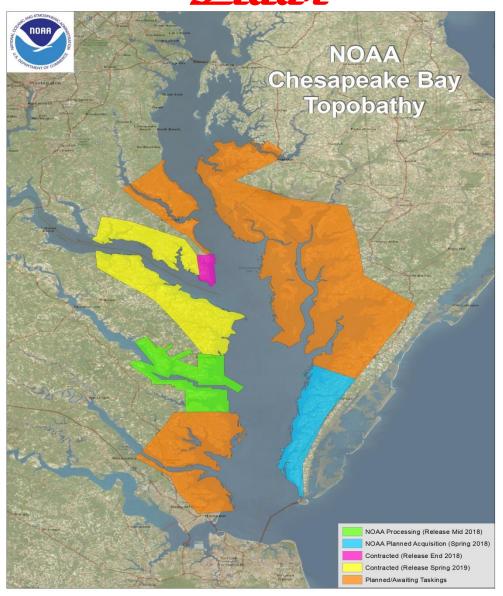
Maryland State Geographic Information Committee

Elevation Work Group

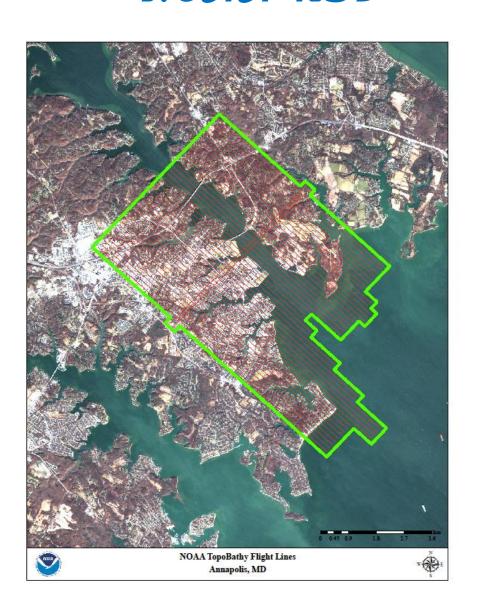
Quarterly Brief

April 2018

NOAA Near-shore Topo-bathy Lidar



V.S. Naval Academy Coordination With NOAA-RSD



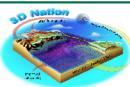
3D Nation Study-Maryland

3D Nation Elevation Requirements and Benefits Study



3D Nation Goal:

Continually improve the national elevation mapping foundation by coordinating the topographic, coastal, and bathymetric mapping activities across the Nation.



What is 3D Nation?

3D Nationise was as a unifying structure for a Linational elevation efforts, and provides a consistent set of standards. and objectives for an authoritative dedspatial. foundation to support national. needs. The SD Nation concept.

Nusinesses, publiciand private lands, and embystems in a changing world by in donoring of a ressuring find by if god og chazards, under actions watch uniting terrestrial and coasts /ocean mapping efforts from the highest. industrains to the deepest operas to ensure public avices y to all accurance national elevation dataset

What is 3D Elevation Data?

3D elevation data refers to:

Topographic data - precise 30 measurements of the terrestrial

Bathymobic data - 3D measurements of underwater cepths and tapagrephy

Why do we need to understand States' needs for 3D elevation data?

Critical perisions are made in every state across our Nation every day that dependion elevation data, ranging from immediate safety of life iprobatty, and environment to long-term planning for infrazoructure projects, and more. We use a evation data in agriculture to increase grap yields and reduce. rertilizer runoff. We use if to menage catastrophes such as numicanes and earthouskes, for storm surce warnings and flood events. We depend on intomanage our nature, resources endicidanta read for sustaineale use, protection. and an pyment of cliniferous and seas. State participation in the 2012 National Enhanced Elevation Assessment (NEEA) was key to informing low the 3D. Hievetion Problem (5.0EP) could best respond to the repid vibrowing used for It ob-quality elevation data to represent the land surface. Further, the NE-A study was helpful for slab assertament and atradegic planning related to e ever'or data.

Today we have the same questions for elevation data in our inland livers. poeans, poast a and Great Lakes. What one the nears for, and valua of populata three-primensional topopulaphic and call whetric mapping pata to the III arc fit by represented nations. How can Federal inappling agencies better design their programs to a meet existing and future needs for additiousliss, sit How do we devotred, thus in hing conservus to the requirements for the State SD Nation that is economically compensive and environmentally sustainable-

The Interagency Working Broup on Bosen and Coastal Mapping (IW6-00M). and the 3D Elevation Program (3DEP) are warding together to answer tresequestions with an aw requirements and denerity study. Learning more about the business made and a second cell bond it is to be real and in minimproved 3D.

e evation data will Halp us bette ildinee, ledera in appir a del are to beat meet. many federal, state, and other national business needs.

What is the 3D Nation Elevation Requirements and Benefits Study?

The SE Nation Study will decurrent and rating the requirements a reliable its all the water angle of mission cruis. I reads that depend on 3D alevation data. to infamiliability, regulation, acidnit ite readership indinanagement decisions. Such in issign of titual needs include I bed risk management, natural resources. provides the days for mapping our nature lieso mass, trensportation systems, I conservation, inhostructura and transportation control improvements. availability, sale maint no shipping and conject or avoicance, and updating neutral pharts, among others.

> The SC Nation Sudv Enilds on the original NELA to provide the carrity to seaces new abgors't or toding oples against (somes direments and identify the tradeoffs between different approaches white simulaticously he arraplan for the next reard of JDEP after rational decay grade has been completed, importantly the study adds our inland rivers, oceans, occasts, and Gleat Lakes to the equation.

How can my State be part of the 3D Nation Study?

Help us to understand how much our Nation benefits from topocraphic and . bathymetric elevation data, and how to design the next phase of federal. alevation mapping programs to help meet State needs.

Designate la State Champion I fiyou are a coastal or Frest Lakes. is a buyear ray went to solde, a Co-Chambion to help andress. incarations and offstions both which yregainer ents).

Bat to know your JSGS and/or NOAA raison; they will be with your every step of the way, providing materials, our capting to or tical. reconneal staff, drafting small and spreduling meetings, as needed.

Dutroach the study to State Agency leads, and pricourage them to inominate study participants ecross Agency programs

Review participant, ist for representative inclusion of key and cinded State qualities intera-

Add in foral, nounty, regional, Tribal, and adapting study particle. pants where they can be one is more rebust story about State needs.

Review responses, and ensure of tigal State mandates and issues.

Attend the workshop or interviews and he allead a scuss on and

Write/Edit an introductors narratise that will become port of the linal publication (template will be provided).

Before Final Publication

Give you. State summary the final approval pefore results are published

3D Nation Study-Status

- **Kick-off teleconference March 23, 2018**
- **❖ Rich Ortt, State Geologist is Maryland State Elevation Study Champion**
- **❖** Survey Participant list submitted April 13th
- **Waiting for OMB Approval of Survey Questions**
- **❖** Administer Survey, 3-4 weeks
- Dewberry grouping and Analysis of surveys
- Workshop to review/clarify responses*

^{*}combine with next WG meeting? At TUGIS? Timing....

Data & Services Update

- ESRGC has processed Calvert and Anne Arundel Co QL1 data and a new statewide layer that reflects these county updates
- We are currently working with DolT to upload all products and services to MD iMAP. We will be <u>adding</u> 2017 services and products to the existing 2011 services
- Just a reminder of these services/products on MDiMap Elevation Portak
- Image services aspect, dem (feet), dem (meters), hillshade, shaded relief, and slope
- DEMS countywide
- LAS point cloud download via custom user defined extent (intended for smaller AOI)
- LAZ -point cloud download via fixed block group extent (bulk option for large AOI)

SERIOUS &BOUT ELEV & TION-NAME THAT SUMMIT MARKER?

