

# **Proud Sponsor of MSGIC since 2013**

Michael S. Scott, PhD, GISP Director, Eastern Shore Regional GIS Cooperative

## **Eastern Shore Regional GIS Cooperative**

- Launched in January 2004
- Partnership between







Not an actual cooperative!

### Mission of the ESRGC

- To build GIS capabilities and find ways to partner with governments and businesses, particularly on the Eastern Shore
- Full service provider of GIS technology with a goal of client self-sufficiency
- Non-profit org carrying out Salisbury University's service mission
- Workforce training and investment

- Damage Assessment of Buildings after Hurricane Sandy
  - Partner: New Light Technologies, Inc
- GIS-enabled Geodashboard Initiatives
  - Partners: ShoreTransit, Caroline County, MD DBED, etc
- Creation of a Statewide Elevation Data Server
  - Partner: MD Geographic Information Office
- Analysis of Asset Vulnerability to Flooding
  - Partners: MD SHA and Stantec



By Arthur Lembo, Ph.D.
Associate Professor, Geography and Geosciences Department
And SU's Eastern Shore Regional GIS Cooperative Technical Director





Superstorm Sandy was the second most destructive hurricane in United States history - striking the eastern seaboard in late October 2012 - causing an estimated \$70 billion in damages. In the wake of Sandy's devastation, agencies from around the country engaged in relief and recovery efforts. Efforts by first responders were critical to provide life-saving activities for those immediately affected by the storm: rescuing people stranded in their homes and giving medical attention to those injured during the storm. Secondary responders worked tirelessly to bring the areas back to a more civilized state by restoring utility services, securing damaged structures, and providing food, water and shelter.

As these efforts were underway, I coordinated a team of some 50 Salisbury

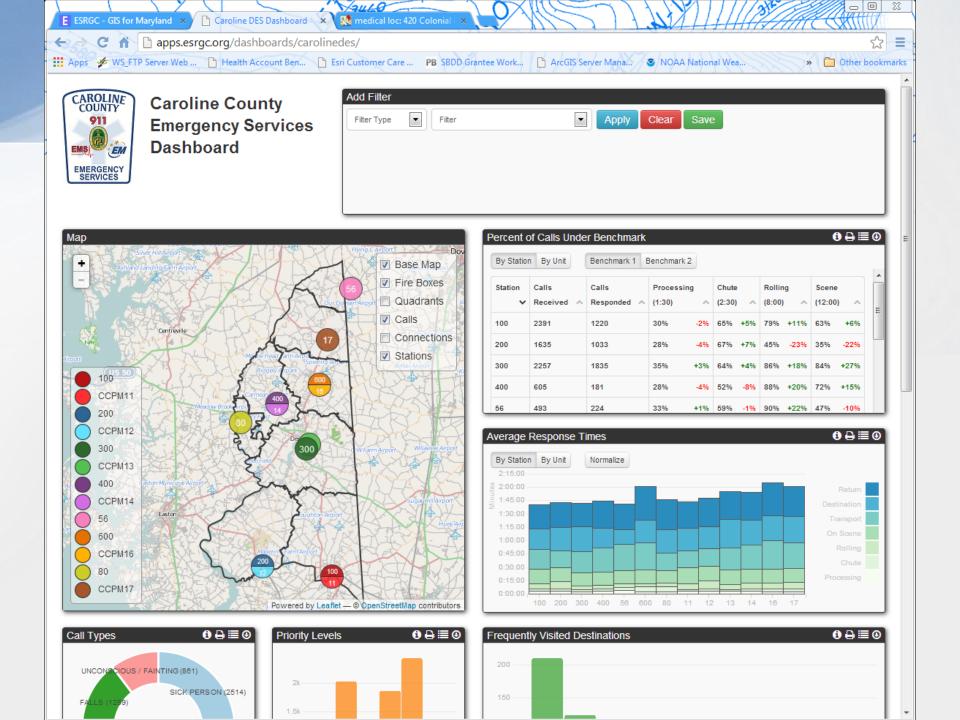
of New York, New Jersey and Connecticut. They labeled damage to homes and buildings on grids using a four-level classification provided by the Federal Emergency Management Agency (FEMA). They also compared photographs to determine how high water levels rose.

Their data was immediately shared with ImageCat, Inc., an international risk- and disaster-management company contracted by New Light Technologies, Inc. of Washington, D.C., to support FEMA's effort. ImageCat compiles the data with other teams' to help provide the federal government with an overall damage assessment. This damage assessment was used by FEMA to determine areas that required immediate assistance and also to provide a rapid estimate for potential recovery costs.

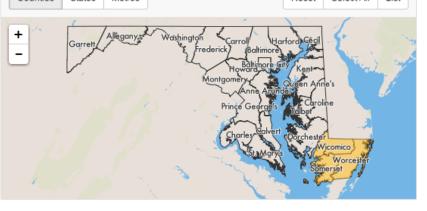
#### SU GIS Students Are Respected as Professionals Within Their Discipline

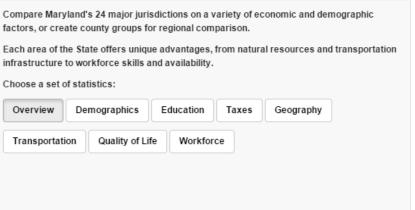
SU students were the largest contingent

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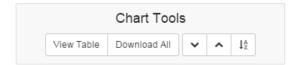


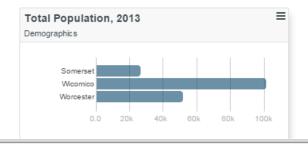


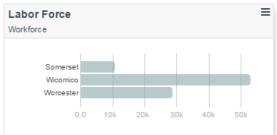


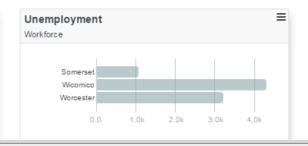


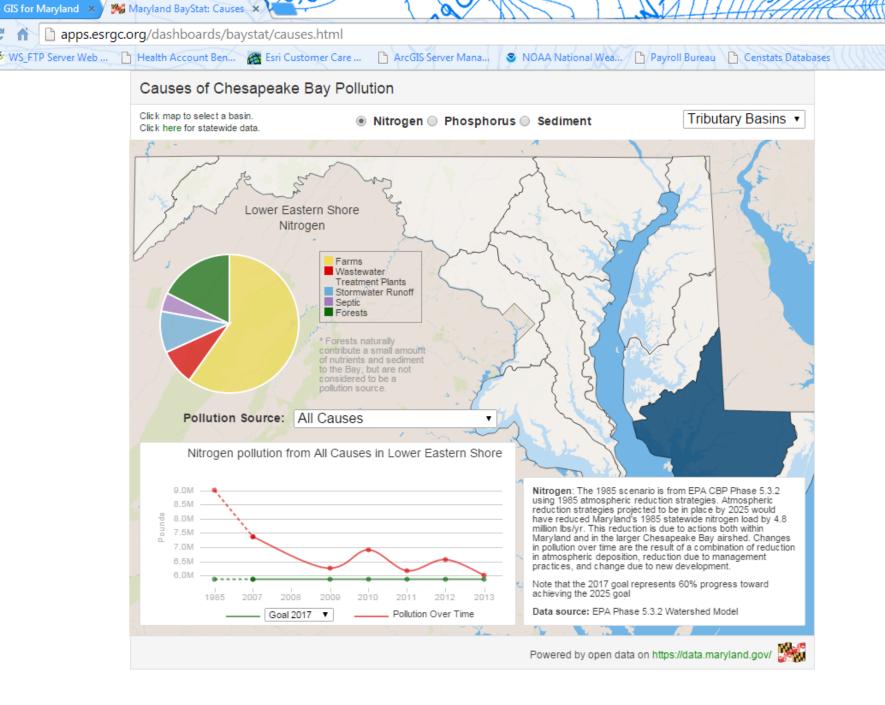
Maryland ranks second among the states in the percentage of professional and technical workers in the workforce.





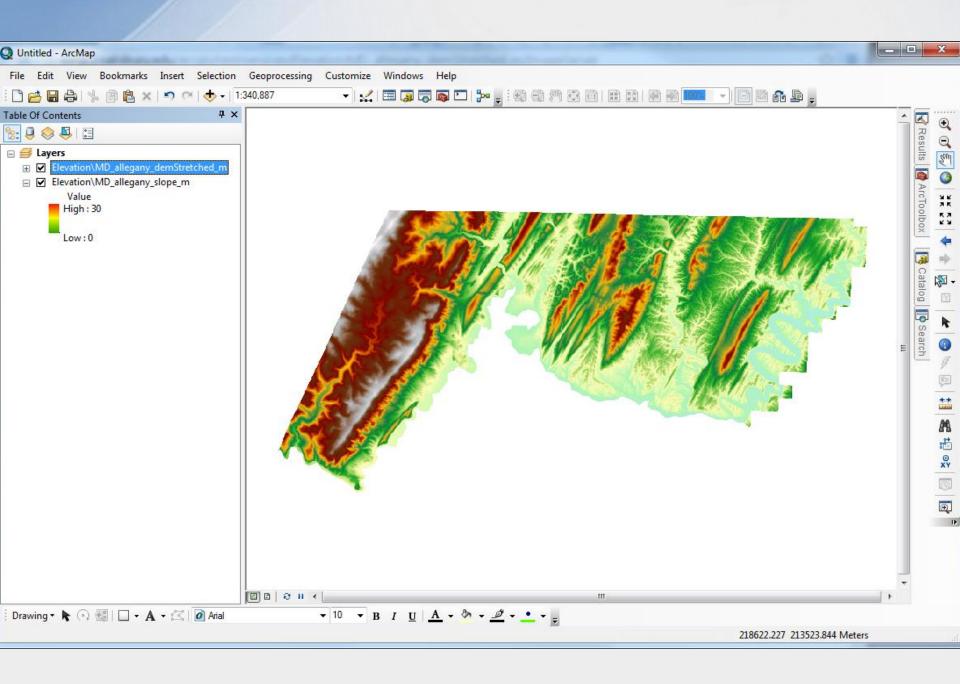


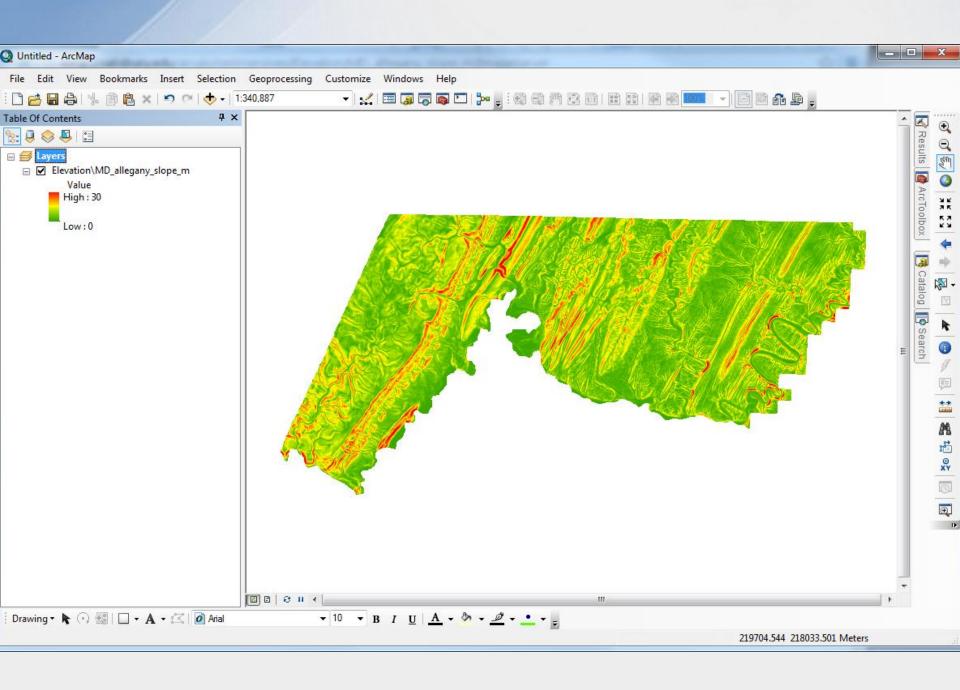


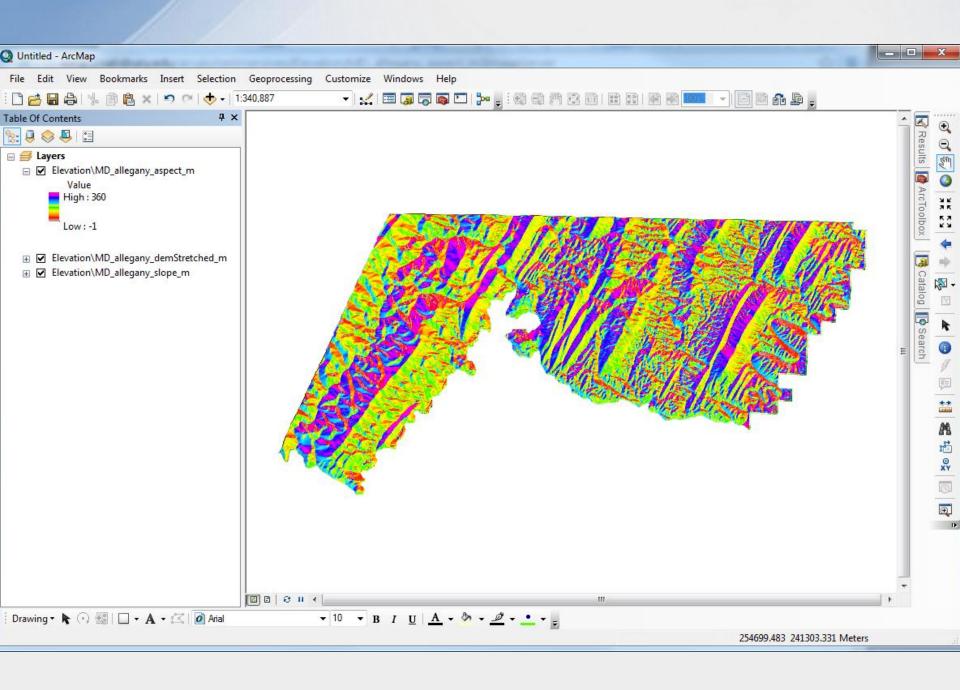


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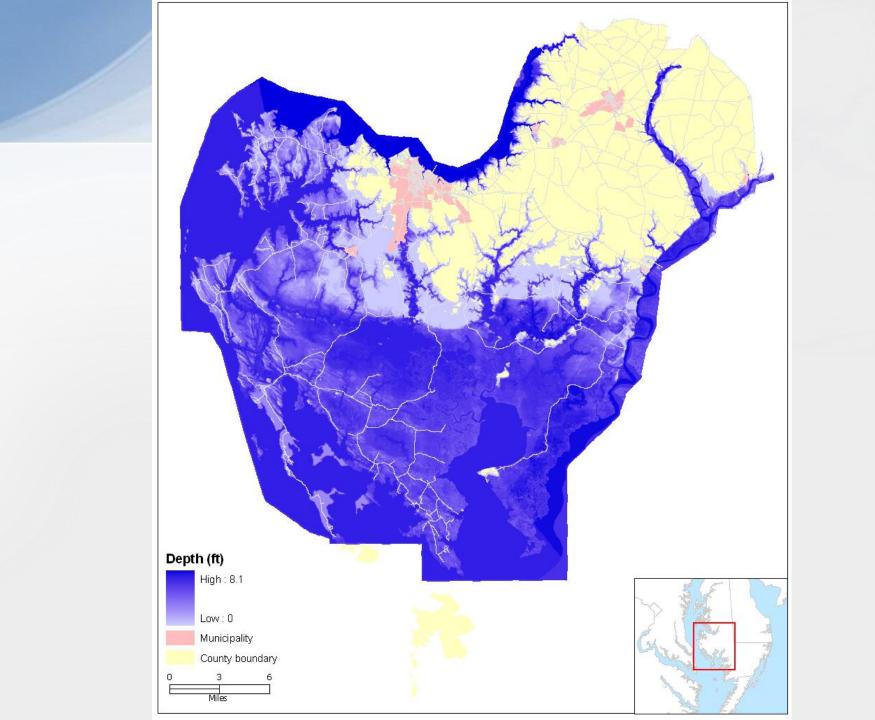
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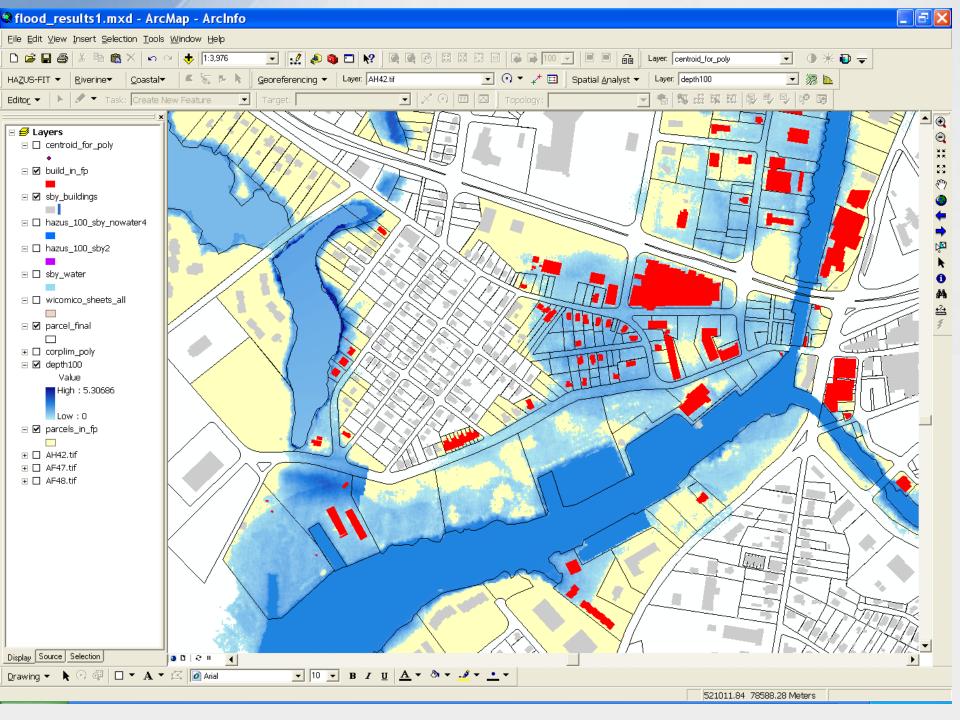
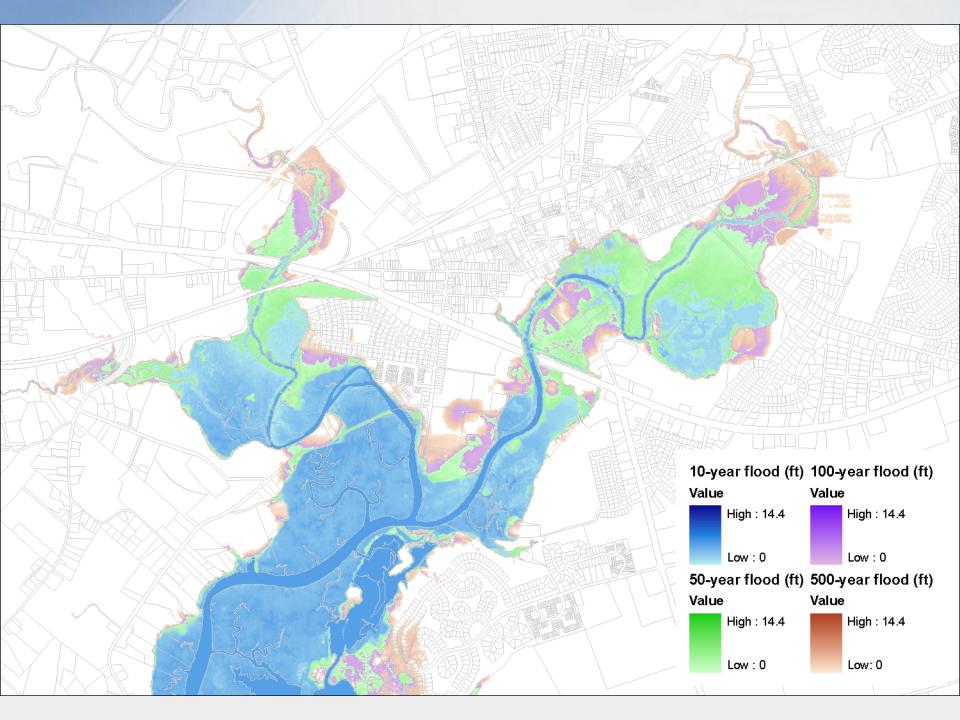


Figure 2.14 Potential flooding and building damage in the Town of North East DOD 000000 **Predicted Damage** 50 - 86.5% 25 - 49.9% 10 - 24.9% 0 - 9.9% Buildings Depth (ft) High: 25 Low:0 1,200 600

Feet



### We would love to partner with you!

• Contact: <a href="mailto:esrgc@salisbury.edu">esrgc@salisbury.edu</a> or 410-677-5390

