

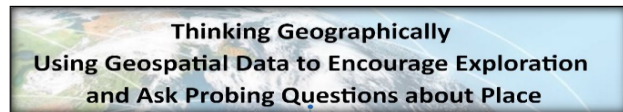


# DELAWARE VIEW 2020 - 2021



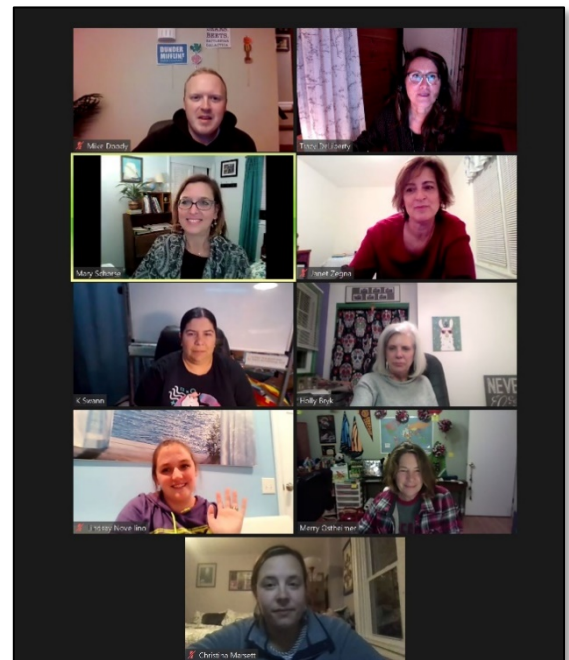
## DELAWARE VIEW 2020 - 2021 ACTIVITIES

Our activities during 2020-21 focused on expanding K-12 social studies curriculum and enhancing teacher capacity to utilize geospatial technologies in their classrooms.



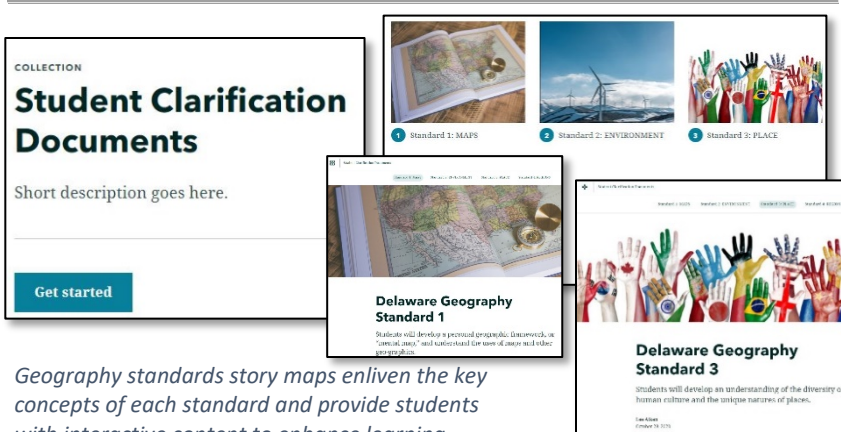
**Activity One:** Drs. Tracy DeLiberty and Mary Schorse co-led a geospatially-focused seminar with nine K-12 teachers from New Castle County, Delaware. This seminar series showed teachers how to create and access geospatial data and use geospatial analysis as a tool for disciplinary instruction. Seminar leaders presented 14 sessions with each seminar introducing core concepts underlying geospatial technologies. Activities and lessons provided opportunities for teachers to think through the concepts and engage in hands on learning with various ArcGIS Online applications. Teachers learned how to ask important place-based questions, became familiar with the latest geospatial technologies, and practiced identifying and analyzing geospatial datasets.

Each teacher created a grade specific teaching unit tested in their classrooms during the spring 2021 school year. Mapping native plants had 2<sup>nd</sup> grade students capturing and mapping data on species in their backyards using the Survey123 application. These activities contribute to the USGS Objective 4 Advancing Education and Training by supporting remote sensing science instruction in K-12 grades.



9 teachers participated in the Seminar.

**Our second activity** expanded the use of imagery and geospatial analysis tools within Delaware's High School Geography 18-week curriculum titled "*Geography in the Modern World*". The curriculum was developed in 2017 by a state-wide teacher cohort to provide instructional resources in geography curriculum that engage current (as opposed to historical) contexts. The five standards-based units of the course were updated to expand the use of GIS and remotely sensed imagery. Students learn how to track and make data collected using GPS, analyze change over time through image analysis, and dig deeper into spatial analysis using GIS technology. Student interns helped to update standards' background materials and insert interactive maps using a story map platform.



DelawareView is a member of the AmericaView Consortium, a nationally coordinated network of academic, agency, non-profit, and industry partners and cooperators that share the vision of promoting and supporting the use of remote sensing data and technology within each state. AmericaView is funded by USGS grant agreement G18AP00077.



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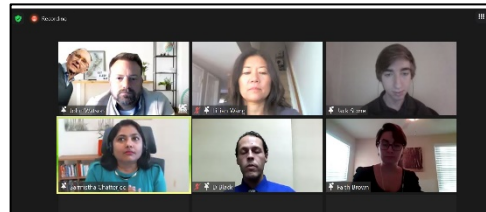
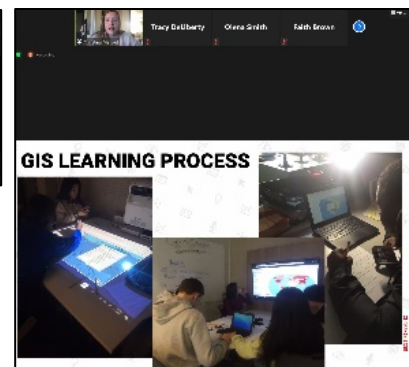
## BENEFITS TO DELAWARE

**Delaware View** focused its efforts this past year on advancing Earth observation education by interacting with K-12 students and educators, University of Delaware students, and GIS professionals through the following activities:

- **GIS DAY Celebration** – Christina Marsett was recognized as an educator instrumental in furthering the use of geospatial data and analysis in the classroom. She presented the use of GIS to reinforce geography standards in her 9<sup>th</sup> grade social studies courses. A Career Panel of 4 GIS professionals provided students with advice to prepare and be successful in the working world.
- **Visualization/Map Design Competition** – Highlighted winners for achievements in the art and science of mapping geospatial data.
- **2 University of Delaware students** further developed their geography concepts and geospatial skillset learned by brainstorming fun and interactive ways to teach geography and develop activities using geospatial data and analysis.
- **Professional Presentations** given at the Delmarva GIS Conference and National Center for Geographic Education Annual Conference.

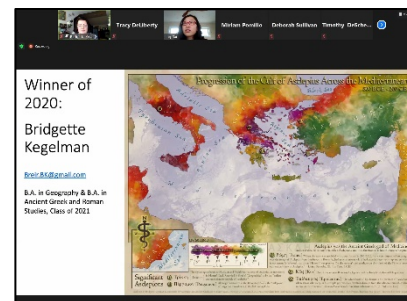


*9<sup>th</sup> grade social studies teacher Christina Marsett recognized.*



*GIS Day Career Panel moderated by*

*Bridgette Kegelmann  
(Geography BA senior winner.*



## DELAWARE VIEW CONSORTIUM MEMBERSHIP



**Tracy DeLiberty**  
Delaware View PI



**Lee Aiken**  
Climatology Doctoral Candidate



**Mary Schorse**  
Delaware Center for Geographic Education



**Izzi Hanna**  
Environmental Studies Senior

Delaware View Principal Investigator:

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