



DELAWAREVIEW 2023 - 2024

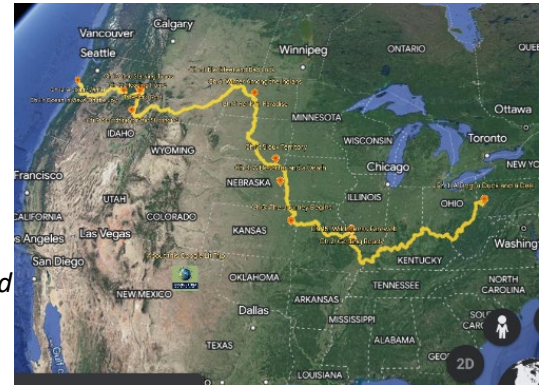
AmericaViewSM
Empowering Earth Observation Education
americaview.org

DELAWAREVIEW 2023 - 2024 ACTIVITIES

DelawareView PI and Delaware Center for Geographic Education Director completed the **Infusing Earth Observation and Geographic Analysis in the 5th Grade Geography Lesson Project** that inserted age-appropriate interactive web maps and imagery in 10 lessons for the Delaware 5th grade geography curriculum. Each lesson has a structured format of a title, suggested time, lesson introduction, geography standards met, lesson objectives, lesson essential question, key concepts, resources, student warm-up, and activities. The literary story - *Seaman: The Dog who Explored the West with Lewis and Clark* - served as the framework for 5th grade standards-based lessons.

Three teacher training workshops were conducted (Nov 6, 2023, Dec 13, 2023, Jan 26, 2024). Both workshops in 2023 were virtual. The Dec 13 workshop was recorded and posted to the State of Delaware maintained Schoology site for 5th grade instructional materials. The Jan 2024 workshop was in person for teachers in the Appoquinimink School District. Virtual 'Office Hours' were held monthly from January – April 2024.

The geospatial technologies utilized in the lessons include i) Big Clickable Maps, ii) National Geographic Mapmaker, ii) ArcGIS Online, and iv) Google Earth. The features and uses of each technology are introduced in the Introductory lesson through an activity.



The Lewis and Clark Expedition as identified in the Google Lit Trip for Seaman: The Dog Who Explored the West with Lewis and Clark.

5th Grade Geography: Intro to New Model Lessons

November 6 & December 13, 2023

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Link to PPT

Introductory module to the model lessons.

Model Lesson One - Introduction to Geospatial Technologies

Lesson PPT

Warm up: Reading - [Website Let's People Track Bears from Home](#)

Activity 1: Big Clickable Maps [Big Clickable Maps - North America](#), [Big Clickable Maps - United States](#), [Big Clickable Maps - Geology and Resources](#)

Activity 2: [National Geographic MapMaker](#)**

Activity 3: [Introduction to ArcGIS - Five by Five](#)

Activity 4: [ArcGIS Settlement Patterns Geoinquiry](#) (Teacher Guide Student Worksheet)

Activity 5: [Using Google Earth](#)

** MapMaker Updated in 2023

Model Lesson One content format

Model Lesson One: Introduction to Geospatial Technologies Lesson was written to introduce both teachers and students to the various digital mapping platforms utilized throughout the lessons. The lesson introduces geospatial terms and concepts with a short reading on how GPS collars help forest rangers track bears in Yosemite National Park.

Model lesson 12 introduction.

Chapter 12: A Soggy Winter

The winter of 1805 was hard. The Corps crossed -on foot- the northern Rocky Mountains (Montana and Idaho) As they began to descend and put their canoes in the water, the were able to - for the first time on their journey - flow *with* the river current! The journey west of the Rockies began at the **Clearwater River**, which fed into the **Snake River**, and eventually the **Columbia River**.



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 G23AP00683.

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BENEFITS TO DELAWAREVIEW

DelawareView has continued leading and engaging in K-12 outreach events to showcase the use of imagery and geospatial technologies, as well as career opportunities. Each activity is listed below.

ESRI Annual Storymap Competition – organizing, promoting and providing mentor support to 11 middle and high school students who created StoryMaps that explored and communicated issues or stories relevant to Delaware. Secretary of Education hosts students at state capital to recognize their accomplishments and give awards.

University of Delaware College Readiness Scholars Institute – first year participated by providing two sessions to 15+ first-generation and underserved high school students in Delaware.

Geospatial Career Panel tracks at annual YES! (Youth Environmental Summit) Conference - continue raising awareness amongst environmentally oriented high school students about college and career paths in geospatial science and technology, and showcasing the amazement of satellite imagery

Geospatial Track in Annual Green Jobs program for Wilmington Youth introduce a select group of urban youth summer interns to geospatial technologies.

EcoCamp – Two-day focus during a one-week camp on the technologies used to study and protect the environment. 12 Black Girls Dive students joined the camp this year.

Earth Observation Day Outreach Activities - taking Landsat poster games to elementary and middle school geography classrooms

GIS Day Field Trip Event – 200+ 5th grade students learning about all about satellite observations



2024 Storymap Competition Awards Ceremony



EcoCampers exploring a big map of DE.

DELAWAREVIEW CONSORTIUM MEMBERSHIP

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