



# KENTUCKYVIEW 2019 - 2020



## KENTUCKYVIEW 2019 - 2020 ACTIVITIES

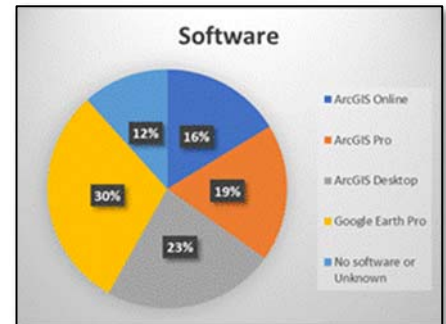
Two of the KentuckyView consortium members, Kentucky State University (KSU) and Murray State University (MSU) conducted two virtual workshops educating high school, undergraduate and graduate students, and in-/pre-service teachers.

Center for Geospatial Intelligence and Environmental Security at KSU conducted a virtual Geospatial Workshop for high school educators on Tuesday, June 16, 2020. The major purpose of this one-day workshop was to offer hands-on opportunity to high school students to educate them about basics of remote sensing applications. The workshop focused on basics of working with remotely sensed data using Geographic Information System (GIS), and exploring opportunities for integrating geospatial technology into high school curriculum. ArcGIS online and ArcGIS pro were showcased for accessing, processing, and analyzing remotely sensed data. The participants also discussed opportunities for continued collaboration for integrating geospatial technology in the high school curricula. There were 62 participants during the time of registration. Majority of them were using PC or laptop along with windows operating system. Number of participants familiar with ArcGIS software were limited. 21 participants responded to survey conducted after workshop. Majority of them agreed with workshop design, expectations, and repetition of similar workshop for next year.

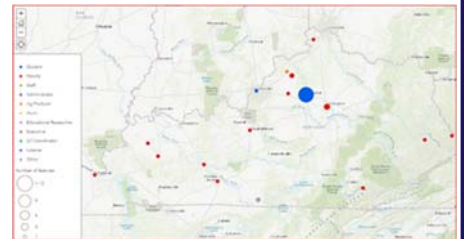
A Train-The-Trainer (TTT) teacher workshop was held at MSU. Four in service teachers, and seven undergraduate and graduate students attended the TTT workshop conducted by Dr. Haluk Cetin, the KentuckyView PI. Several USGS and NASA products, such as Landsat 5, 7, and 8, DEMs, as well as aerial imagery, were utilized. The students worked on remote sensing modules, wrote a report for each module and answered questions related to the exercises in the modules.

A virtual Earth Observation Day (EOD) event was held at MSU on October 13, 2020. Two Keynote speakers, Dr. Bassil El Masri of MSU and Dr. Patricia Kambesis of Western Kentucky University, gave presentations. There were 34 participants at the event. Also, a virtual 2020 GIS day event was organized by KSU. The participants included university instructors, GIS officials, planners, and others. Women in the Geographic Information Sciences (WIGIS), Geography and Geospatial Sciences, and Networking and Leadership in Geospatial Science were the overarching topics of the event.

A fellowship program for graduate and undergraduate students in Kentucky was established last year. The 2020 undergraduate awards in the amount of \$500 were given to Ms. Kim Kusler, Northern Kentucky University and Ms. Rebecca Moskal, Eastern Kentucky University. The 2020 graduate award in the amount of \$1,000 was split between Mr. Kevin Takashita-Bynum, MSU and Ms. Smriti Kandel, Kentucky State University. The students will be using their fellowship monies for their research.



Pie-chart showing percentage of participants familiar with respective geospatial software.



Map showing location of participants.



The 2020 EOD event at MSU



The 2020 GIS event at KSU

KentuckyView 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.



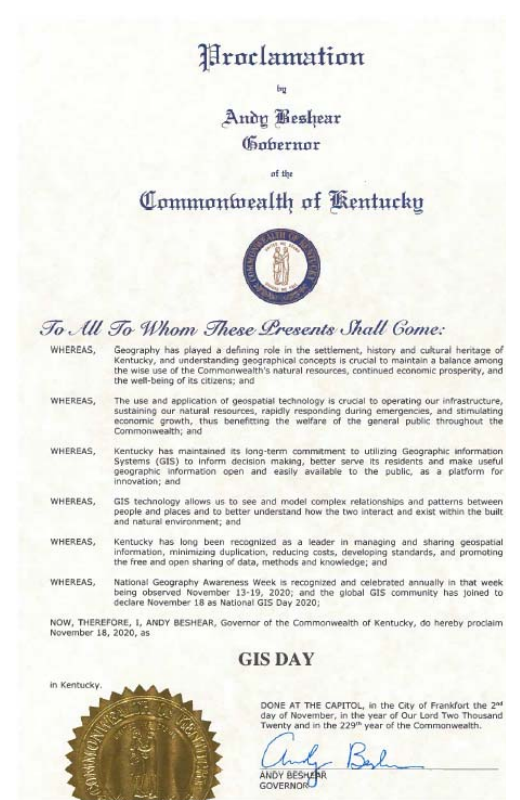
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## BENEFITS TO KENTUCKY

KentuckyView 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. KentuckyView currently comprises 12 member institutions and agencies. As KentuckyView continues to grow we expect that additional universities, colleges, non-profit organizations, and state and federal agencies will add their knowledge, experience and shared goals to ours as we seek to improve life for citizens throughout the Commonwealth. The primary focus of KentuckyView is on the use of images collected from remote sensors, as well as other geospatial technologies, to support K-16 education, applied research, and public outreach. The Kentucky Spectral library has been utilized to help process satellite data, such as Landsat 8.

KentuckyView has conducted research on soil moisture, and water quality and quantity. For the state of Kentucky, these projects inform the water research community and improve understanding the environmental conditions which allows Kentucky to manage the water resources more efficiently.

We are developing workshop modules to improve K-16 education in the state. Also, more assessment tools have been developed. Remote sensing education and outreach activities, such as workshops, story maps, Earth Observation Day, Earth Day and GIS Day presentations, have helped inform and educate teachers, students and the public in Kentucky. Andy Beshear, Governor of the Commonwealth of Kentucky, proclaimed November 18, 2020 as GIS day.



*Proclamation by Andy Beshear, Governor of the Commonwealth of Kentucky*

## KENTUCKYVIEW CONSORTIUM MEMBERSHIP



- *Murray State University - MARC and the Department of Earth and Environmental Sciences (official member of record)*
- *Morehead State University*
- *Kentucky Division of Geographic Information*
- *Kentucky Geological Survey*
- *Eastern Kentucky University – Department of Geography*
- *Jefferson Community and Technical College*
- *Kentucky State University*
- *University of Kentucky – College of Agriculture*
- *Western Kentucky University – Department of Geography and Geology*
- *University of Louisville – Center for Geographic Information Sciences*
- *Northern Kentucky University – History and Geography Department*

*Federal consortium members identified above do not receive funding from AmericaView.*

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