



ALASKA VIEW 2018 - 2019

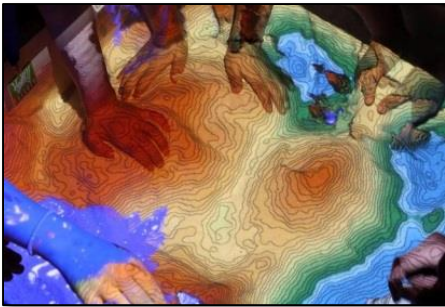


ALASKA VIEW HISTORY AND SUCCESSES

AlaskaView is a member of the AmericaView Consortium, a nationally coordinated network of academic, agency, non-profit, and industry partners that share the vision of promoting and supporting the use of remote sensing data and technology within each state.

As a result of activities and support of AlaskaView the State of Alaska have benefited as follows:

- Geospatial training courses for K-12, university students, and for personnel of state, tribal, and federal organizations.
- STEM learning activities at the Fairbanks Children’s Museum.
- Partnership across the state to promote USGS products for Alaska-specific research.
- Processed Landsat data for Alaska Fire Service in support of firefighting operations during 2005 fire season.
- Collaboration of AlaskaView, UAF-GINA, USGS and NOAA was a critical source for availability of Landsat data for fire-fighting operations and accurate mapping of wildfire perimeters during 2005-2011.



The Augmented Reality Sandbox at Fairbanks Children’s Museum.



Alaska native high-school students in a geospatial data resource course in 2015.



The Augmented Reality Sandbox at a STEM event at UAF.

Consortium Development and Maintenance Efforts: AlaskaView maintained the consortium involvement through face-to-face meetings with local members that were involved in the geospatial courses and in the deployment of Augmented Reality Sandbox at the Fairbanks Children’s Museum.

ALASKA VIEW CONSORTIUM MEMBERSHIP



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

AlaskaView 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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ALASKAVIEW 2018 - 2019 ACTIVITIES

AlaskaView offered two workshops on Remote Sensing Applications to middle- and high-school student participants of **Alaska Summer Research Academy (ASRA)** and **Upward Bound College Bound (UCBC)** program during summer 2019.

Goal: Introduction of remote sensing science and technology; access to open source geospatial tools and freely available remotely sensed data; hands-on training where the students worked on two case studies from Alaska:

- coastal erosion along Alaska's northern coast and
- forest fire in interior Alaska

Participants: Nine middle-school students (ASRA) and seventeen high-school students from remote villages (UCBC)

UCBC students also learned about Google Earth Engine and created custom maps using Google My Maps application.

ASRA students practiced collecting vegetation spectral using a PSR+3500 field spectrometer and learned about spectroradiometry and image interpretation in the field (at 2004 Boundary fire site). Students also explored boreal forest and exotic places through Google Virtual Reality.

Public Outreach: AKView participated in the 2019 Annual Science Potpourri event organized by University of Alaska Fairbanks' College of Natural Science and Mathematics. Exhibit included: Augmented Reality Sandbox, 3D printers, Landsat board games, NASA posters, USGS Landsat Science booklets.

Consortium Development: Collaborated with Alaska Satellite Facility, NSF Alaska EPSCoR program, Alaska Summer Research Academy, and Alaska Upward Bound College Bound program.

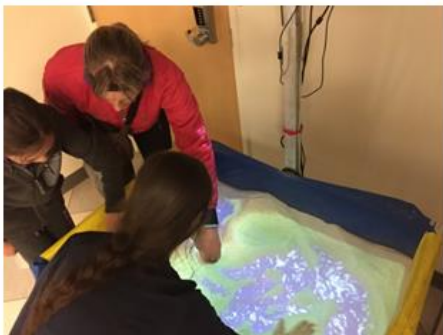


Middle-school student participants of 2019 Alaska Summer Research Academy working on a forest fire burn scar and burn severity mapping from pre- and post-fire Landsat images.



High-school student participants of 2019 Upward Bound College Bound program working on a lab on coastline erosion along Alaska's northern coastline.

Below pictures were taken during 2019 Science Potpourri event held at University of Alaska Fairbanks campus on 13th April 2019.



These activities meet the objectives 2 and 4 of NLRSEORA 2018 grant: “establishing strategic partnerships to develop and deploy remote sensing applications through collaborations involving university research teams and K-12 schools” and “developing materials for an educational and training workshop”.

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