



ALASKA VIEW 2022 - 2023

AmericaViewSM
Empowering Earth Observation Education
americaview.org

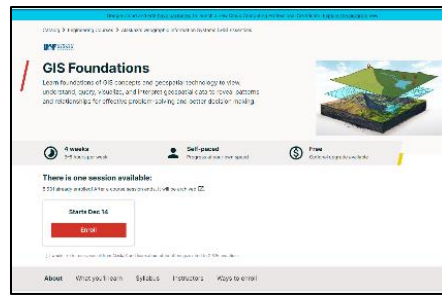
ALASKA VIEW 2022 - 2023 ACTIVITIES

AlaskaView developed contents for a new open access online courses: 1) [GIS Applications: Forest Health and Wildfires](#) geared toward students and professional beginners in geospatial field. This course will be launched on [edX.org](#) (a global nonprofit online education and learning platform) in early 2024. The course is self-paced (consisting of video lectures, illustrations, interactive exercises, and quizzes). Also, AlaskaView continue to support three other online GIS courses on edX.org: GIS Foundations, 3D GIS, and GIS Image Analysis in ArcGIS Pro.

Goal: Introduce GIS and remote sensing science through natural resources and wildfire applications—a problem that is worsening with climate warming and best addressed using geospatial science.



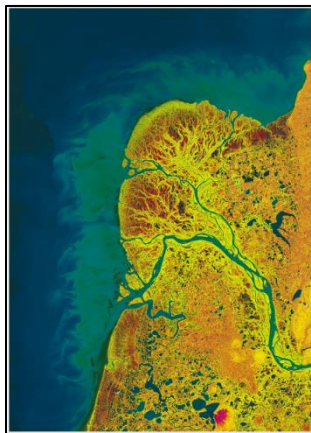
GIS Foundations learner locations



GIS Foundation course page



Alaska-As-Art display at an event



Outreach: In GY22, we added three more displays to ‘Alaska As Art’ exhibit collection and published an [ArcGIS StoryMap](#).

- to increase awareness of satellite earth observation in education, research and societal well-being
- to increase awareness of the climatic and geologic processes that continue to shape the Alaska’s dynamic landforms and the climate change effects

Consortium Development: Collaborated with UAF eCamups, UAF Institute of Agriculture, Natural Resources and Extension, edX.org, NSF Alaska EPSCoR program, U.S. Forest Service, and U.S. Fish and Wildlife Service.

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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AmericaView Website:
www.AmericaView.org
Christopher McGinty, Executive Director:
chris.mcginty@americaview.org
Lisa Wirth, Program Director:
lisa.wirth@americaview.org
John McGee, Board Chair:
jmcg@vt.edu

BENEFITS TO ALASKA

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

Enrollment in edX courses: Currently, we are offering 3 open access courses on edX platform. These courses have been benefitting Alaskans and global learners alike. The learners include Alaskan university students and faculty, state and tribal agencies workforce.

Total enrollment 28,093 (as of Nov. 2023) from 181 countries. Among the top 10 enrollment countries 5 are developing countries (India, Nigeria, Pakistan, Bangladesh, and Ghana).

GIS Foundations Learner Statistics: Female: 38%; Male: 59%.

Learners education level: 16% high school diploma or less; 51% college degree; 31% advanced degree.

Student Support and Research: Anushree Badola, Ph.D. student, received salary support for the edX course development as a co-instructor and for graduate research. She published a paper in the [Remote Sensing journal](#), and presented at 2022 AGU Fall Meeting, 2022 PECORA conference, and 2023 IGARSS meeting.

We offered two \$500 fellowships to:

- Cristina Ornelas, a MS student, conducting research on overflow ice
- Yali Wang, a MS student, conducting research on wildfire detection

Public Outreach: In GY22 AKView participated in 3 events organized by University of Alaska Fairbanks:

- 2023 Pearl-Creek Elementary Science Night, Fairbanks, Alaska
- 2023 Alaska State Fair, Palmer, Alaska
- 2023 Arctic Research Open House; exhibit included: a poster on forest health research, Landsat board games, NASA posters, and USGS Landsat Science booklets.

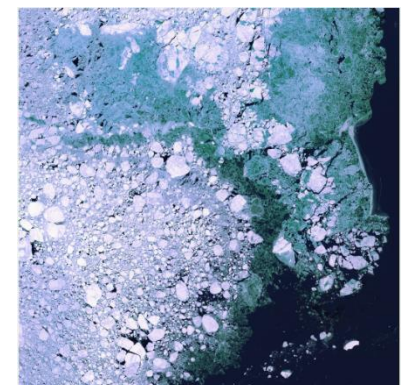
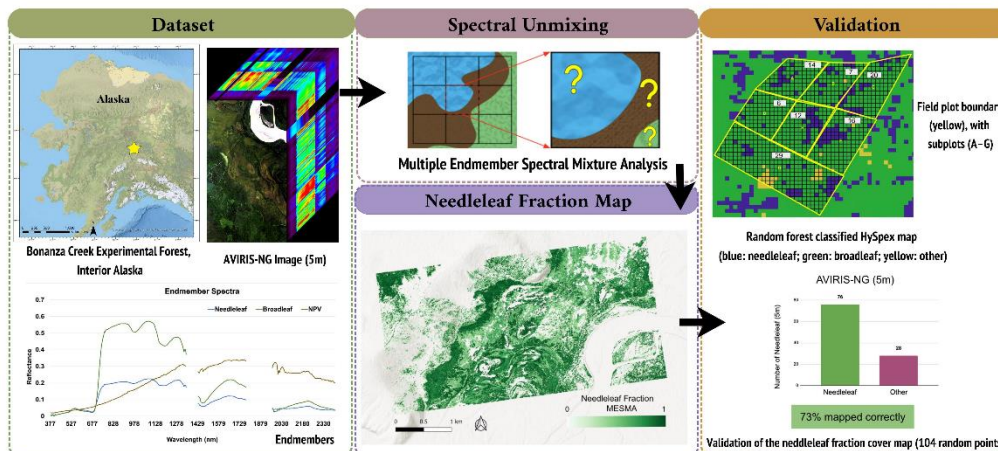


Anushree Badola interacting with visitors at the 2023 Pearl-Creek Elementary Science Night.



K-12 students solving Alaska puzzle at the 2023 Arctic Research Open House.

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”.



Top: Sea ice display art
Left: Graphical Abstract, Badola et al. 2023

AlaskaView Principal Investigator:
SANTOSH PANDA
UNIVERSITY OF ALASKA FAIRBANKS
907-474-7539
SKPANDA@ALASKA.EDU



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