

NORTH DAKOTAVIEW 2021 - 2022

AmericaView Empowering Earth Observation Education

americaview.org

NORTH DAKOTAVIEW 2021 - 2022 ACTIVITIES

Remote Sensing and Forestry institute for K-12 Teachers. NDView cohosted this two-day institute in June 2022 with the ND Geographic Alliance and the ND Forest Service. This institute was part of the GeoFIT summer teacher education program. NDView provided funding to cover the one credit tuition for participants via the University of North Dakota, North Dakota State University, or Minot State University.

 Advance education and training, technology transfer, and outreach were provided to teachers in remote sensing and forestry. Teachers were given hands-on learning experience in the classroom using internet- North Dakota landscape from MODIS imagery, based tools for the analysis of Landsat and Sentinel satellite imagery. Analysis of local and global forested areas was conducted. Participants initiated lesson plans to transfer these skills to K-12 students.

 Classroom exercises were followed up with field-based exercises in spatial resolution of satellite imagery, tree measurements and plant identification. Training took place on the campus of Minot State University, Denbigh Experimental Forest (US Forest Service) and the Towner State Nursery (ND Forest Service and North Dakota State University).



August 22, 2020. development.



Teachers working in the classroom at Minot State University, (June 2, 2022).



Institute participants at Denbigh Experimental Forest, Denbigh, ND (June 3, 2022).



Tree coring and measurements at Minot State University (June 2, 2022).



Towner State Nursery, Towner, ND (June 3, 2022).



Assessing tree health, Denbigh Experimental Forest, Denbigh, ND (June 3, 2022).

North DakotaView 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.

AmericaView^{**} **Empowering Earth Observation Education** americaview.org

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: imcg@vt.edu

BENEFITS TO NORTH DAKOTA

- NDView provided scholarships for undergraduate and graduate students at the University of North Dakota for research and training in remote sensing related areas. Students conducted research in wildlife-vehicle collisions, water quality and harmful algal blooms.
- NDView hired two student interns for summer 2022 to work on data analysis on brine spills and to put together a story map on the spills associated with oil production in the state.
- NDView conducted training for ND K-12 teachers in remote sensing and other geospatial technologies and covered their tuition costs.
- NDView provided access to specialty software for training and analysis on remote sensing data from satellites, aircraft, UAS and ground-based sensors, for students and faculty at University of North Dakota.
- NDView funded student transportation to the ND Geospatial Summit, and purchased new computer equipment for student research and outreach.

NORTH DAKOTAVIEW CONSORTIUM MEMBERSHIP



Amalie Joergensen, NDView scholarship winner, is researching wildlife-vehicle collisions.



JamesGuy Gierisch (left) and Jacob Moll, NDView scholarship winners are researching water quality.

