



NEW MEXICOVIEW REMOTE SENSING ACTIVITIES 2014 - 2015

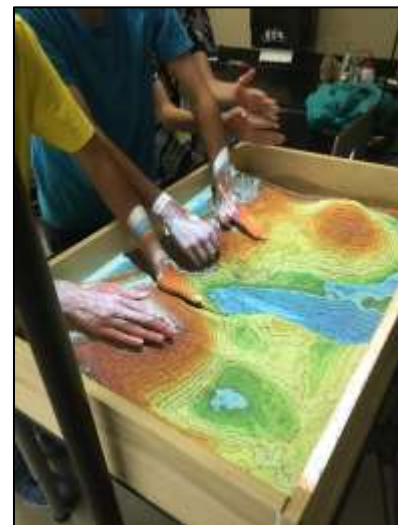


EDUCATION - EARTH OBSERVATION DAY AND ADOPT A PIXEL

New MexicoView (NMView) collaborated with Sigma Corp. and NASA's Landsat Missions in the education of New Mexico students at the elementary, secondary, and higher education levels and in support of AmericaView's Earth Observation Day. Earth Observation Day is a STEM educational outreach event of AmericaView and partners. NMView provided remote sensing education to secondary students in the Las Cruces Public Schools and incorporated NASA's "Adopt a Pixel" program in a Las Cruces high school. NMView is using student feedback to understand how best to implement the program and incorporate it into more AmericaView states.

"Adopt a Pixel" is a program that provides students with the link between remote sensing and ground control points. Students use smartphone apps to identify land cover and take photographs of land cover points that can then be used in classification or accuracy assessment of remotely sensed efforts. Combined with other remotely sensed demonstrations, NMView links the importance of remotely sensed data and field efforts to scientific research.

This year, NMView presented the "Adopt a Pixel" program to Early College High School in Las Cruces, NM. Other demonstrations included an overview of remote sensing, satellite and aerial photo interpretation, and use of the augmented reality sandbox. The augmented reality sandbox is a hands-on sandbox with a virtual three dimensional visualization environment (see photo to right).



Students from Early College High School in Las Cruces, New Mexico working in the augmented reality sandbox

OUTREACH – THE WILDLIFE SOCIETY GEOSPATIAL ADVISORY COMMITTEE



Opening Screen for Webinar sponsored by NMView



Field photo smart phone app presented during 1st webinar

Federal agencies, tribal, state and local governments, nongovernmental organizations, and private entities are seeking experts to assist their conservation management. The Southwest Section of The Wildlife Society (TWS) and NMView have created a committee for the TWS membership and the conservation community as a whole. TWS is an international professional society focused on wildlife management and conservation.

The Southwest Section Geospatial Advisory Committee (GAC) of The Wildlife Society and the associated state chapters (AZ, NM, and TX) are a functioning committee working on providing outreach and education to TWS members. NMView sponsored one webinar for wildlife professionals in 2015 (attended by 30+ individuals) to introduce the committee and specific sponsors including NMView. Participants on the committee represent the Arizona, New Mexico, and Texas state chapters of The Wildlife Society and the Southwest Section of The Wildlife Society. This includes members from university research teams, K-12 schools, federal agencies, tribal, state and local governments, nongovernmental organizations, and commercial enterprises. Additional webinars are planned for the next fiscal year as well as publications and fact sheets.

This NMView activity assisted in identifying the data and information requirements of TWS members, established partnerships with personnel in a variety of agencies and organizations, and provided education and training of professional wildlife biologists. The goal of the effort is to establish a long-term geospatial committee that will provide expertise and documentation on using remote sensing data in wildlife management.

New MexicoView 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.



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BENEFITS TO NEW MEXICO

NMView is working to provide increased awareness about remote sensing data and products and the uses of the data, and is facilitating methods to get the data into people's hands. Remotely sensed data are used in New Mexico by state and federal agencies, universities, private entities and non-profit organizations. Uses have focused on natural resource management activities (including fire and range management), and biodiversity conservation. A challenge for the New Mexico remote sensing community is to get applications into the hands of managers in a format that can be applied on the ground. These applications have been developed by USGS, USDA, and NMView partners. The NMView consortium is working on methods to bring the research and application communities together in New Mexico. These efforts include:

- Expertise
- Collaboration
- Data use and applicability
- Cutting edge applications
- State and regional contacts



Imagery of the Mesilla Valley, New Mexico used to demonstrate aerial and satellite imagery interpretation at Early College High School in Las Cruces, New Mexico

NEW MEXICOVIEW CONSORTIUM MEMBERSHIP

NMView has built a consortium of public, private, and non-profit organizations that are promoting remote sensing in New Mexico through sharing of resources, developing infrastructure and supporting research and education in the state. Collaboration with the New Mexico Geographic Alliance and NASA provide the foundation for education and outreach opportunities across the state.

NMView partners develop, leverage, and disseminate remote sensing resources, applications, and research. NMView's programs, supported by other AmericaView members, have the capacity for national reach.



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

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