



WISCONSINVIEW 2018 - 2019



WISCONSINVIEW HISTORY AND SUCCESSES

WisconsinView 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.

WisconsinView bridges the gap between the research and user communities in Wisconsin. The federal government and private sector have investigated significantly in satellite-based earth observing systems since the early 1970's. In that time the research community has identified and developed practical applications for mapping, monitoring, and managing natural and environmental resources. Potential uses for remote sensing technology are widely recognized; yet connecting state and local users with federal information requires local knowledge and a statewide network. WisconsinView addresses this need.

WisconsinView became an AmericaView member in 2004. Since that time 12 institutions have joined the University of Wisconsin-Madison to form the WisconsinView Consortium and over 20,500 individuals have registered to download remote sensing imagery from the WisconsinView website. WisconsinView partners share imagery and expertise. Together they develop imagery products and educational materials and seek to improve utilization of remote sensing resources throughout the state.



Landsat 7 satellite image of the Fox River, Green Bay, and the Door County peninsula.

WisconsinView includes the following partner organizations:



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

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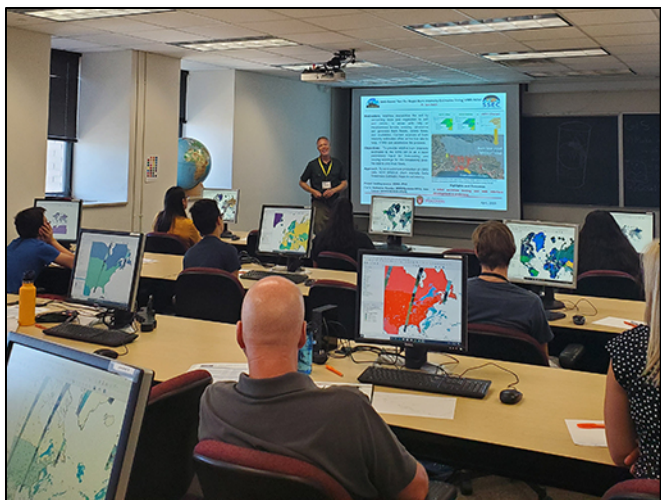


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Flood Mapping with Satellite Imagery

WisconsinView is helping researchers who are collaborating in Wisconsin and Virginia to detect and map flooding with satellite imagery using the Joint Polar Satellite System (JPSS).

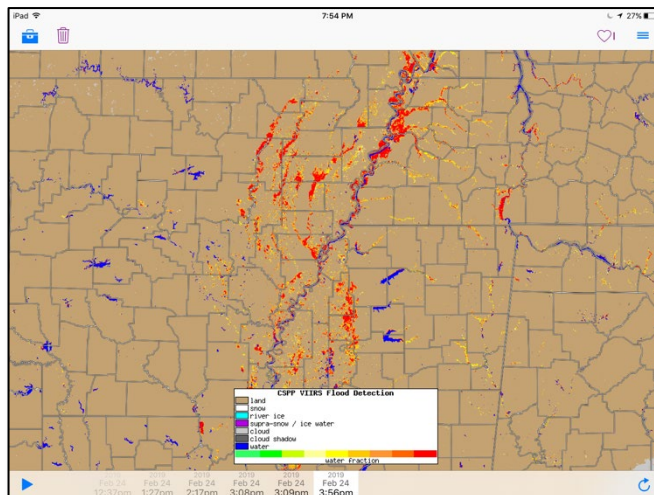
WisconsinView is facilitating access to higher resolution satellite imagery from Landsat to help provide more detailed mapping and is providing a visualization platform called RealEarth™ (see below) to make the mapping results more accessible to emergency managers and other decision makers.



WisconsinView director Sam Batzli teaches how satellite imagery is used for disaster response during a Technology Camp for high school students and teachers at the University of Wisconsin-Madison.

Data Visualization and Mobile Apps

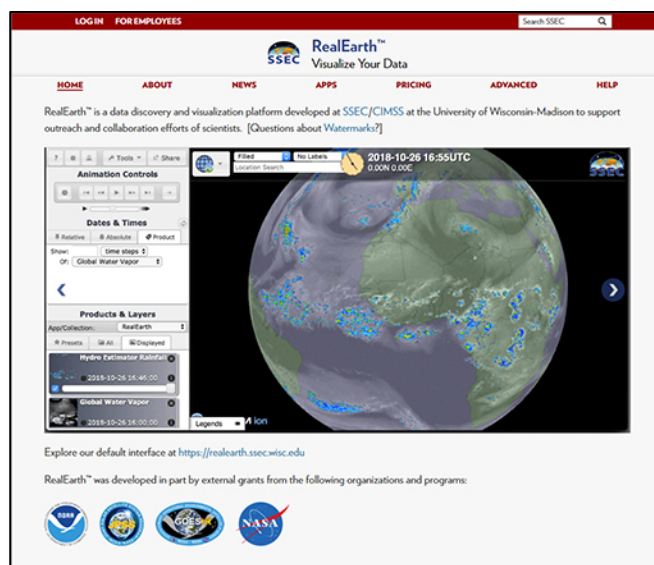
WisconsinView leverages a data discovery and visualization platform called RealEarth™ developed at the Space Science and Engineering Center at the University of Wisconsin-Madison to support outreach and collaboration efforts of scientists. A browser interface and mobile apps provide access to hundreds of near real-time, satellite-derived imagery products and related data. Free for iOS (left) and Android (right):



This flood map represents flooded areas in yellow, orange and red. Researchers created it with data from satellite imagery. It is displayed in the RealEarth™ iOS App (see below).

Outreach and Education

WisconsinView participates in public outreach events on the University of Wisconsin-Madison campus to demonstrate the value and importance of satellite imagery and information for a variety of applications. These applications include crop health monitoring in agriculture, hazard detection and mapping for emergency management, corridor and right-of-way studies for utility companies, and many other uses.



<https://www.ssec.wisc.edu/realearth/>

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