



# CALIFORNIAVIEW REMOTE SENSING ACTIVITIES 2014 - 2015



## PROMOTING REMOTE SENSING RESOURCES

CaliforniaView (CalView) outreach activities were displayed at the annual University of California Davis Open House (**Picnic Day**) in April 2015. More than 75,000 visitors attended the event. CalView offered a variety of hands-on activities such as a US travel geospatial game. Participants matched Landsat 5 image scenes of famous US landmarks to a physical map, derived from USGS Global Multi-Resolution Terrain Elevation Data 2010 (GMTED2010).



*The geospatial 'play area' on the University campus*



Visitors (left) trying to match the satellite image of a famous landmark (right) with its correct location

Visitors could visualize the extent of the state's drought by comparing two Landsat images of Folsom Lake, CA. The picture below on the left is a Landsat 5 image acquired on April 7, 2004. The picture on the right shows a Landsat 8 image acquired on March 18, 2014, of this famous northern California water reservoir and recreation site. It shows how much the water has receded in the past 10 years.



## PROVIDING REMOTE SENSING EDUCATION

A teacher-training workshop introduced Earth Observation Day lesson plans to middle school teachers and educators from California. The workshop was hosted at the California Science Teacher Association Conference held in southern California in December 2014. More than 15 teachers actively participated in the workshop. The teachers were shown the step-by-step process of overlaying a Google Earth map with data from the USGS Cumulus Portal.


8.3 When you click on the layer, it will be highlighted. Click the  button in the corner of the screen to edit the layer of the 'Selected Layers' frame. Your screen should look like this:



Figure 4. Overview of the Cumulus Web Maps.

A screenshot of a small section of the 'Viewing Land Cover Data Sets' lesson plan for 6th-8th grade students.



Co-presenter Mr. Spencer, science teacher at Rio Americano High School in Sacramento, (above left), and Mrs. Van Benthem, the CalView coordinator, (above right), demonstrating four Google Earth lesson plans to middle school teachers. Mr. Spencer is working closely with CalView to align the workshop materials with the next generation science standards.

CalView 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 Website:

[www.AmericaView.org](http://www.AmericaView.org)

Roberta Lenczowski, Executive Director:

[roberta.lenczowski@sbcglobal.net](mailto:roberta.lenczowski@sbcglobal.net)

Debbie Deagen, Program Manager:

[debbie.deagen@montana.edu](mailto:debbie.deagen@montana.edu)

Russell Congalton, Board Chair:

[russ.congalton@unh.edu](mailto:russ.congalton@unh.edu)

## BENEFITS TO CALIFORNIA

California grows nearly half of the nation's fruit, nuts and vegetables, making it one of the nation's top agricultural states. Environmental disasters, however, such as annual wild fires and the ongoing water scarcity, threaten its economy.

CalView's goal is to support California's economy by:

- Providing imagery and geospatial tools to the workforce for damage assessment and disaster preparedness
- Relaying necessary information to legislators to support better informed decision-making on pressing environmental issues such as drought and wildfires which affect landowners and managers, forestry personnel, health professionals, and others
- Educating and exciting the general public and educators about the benefits and applications of remote sensing imagery
- Training educators and students on the accessibility of free Landsat data
- Providing lesson plans guiding teachers on the implementation of remote sensing into their classroom curricula



Landsat mosaic of California created from a combination of Landsat 7 data acquired during the period of July 1999 to September 2002 and the National Elevation Dataset

## CALIFORNIAVIEW CONSORTIUM MEMBERSHIP

CalView is housed at the University of California Davis and is part of the Center for Spatial Technologies & Remote Sensing (CSTARS). Its mission is to promote the use of freely available Landsat datasets for public education, outreach and research.

During the past grant year, CalView expanded its consortium to include members of the California GIS Council Working Group, as well as local industry and government partners.



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

CalView Principal Investigator:  
Susan Ustin  
University of California, Davis

CalView StateView Coordinator:  
Pia van Benthem  
University of California, Davis  
pvanbenthem@ucdavis.edu



<http://cstars.metro.ucdavis.edu/education-and-outreach/californiaview/>