



# OKLAHOMAVIEW REMOTE SENSING ACTIVITIES 7/1/2014 – 6/30/2015



## Oklahoma Workshop on Remote Sensing Technology and Applications (Nov. 12, 2014)

Remote sensing technology of various platforms (in-situ, airborne and satellite) has made substantial progress over the past few decades and has been playing an increasingly important role in the observation and monitoring of the Earth. This one-day workshop provided a forum for researchers and users in Oklahoma to communicate their research and application activities, discuss collaboration, and develop networks between institutions.



*Participants in the 2014 Oklahoma Workshop*

This workshop at the University of Oklahoma brought faculty, researchers, and students together with representatives of federal, state, and tribal government agencies. Work on remote sensing data products and their uses was presented and there was open dialogue between researchers and others in the remote sensing community to enhance and further remote sensing efforts and cooperation in Oklahoma. Participants included 44 faculty, researchers, students, and government representatives. Please visit the website <http://www.eomf.ou.edu/workshops/> for more information.

## GEOSPATIAL INFORMATION SCIENCE DAY EXPO (GIS DAY: NOV. 13, 2014)



*2014 Geospatial Information Science Day*



*OklahomaView presenting at GIS Day*

Geospatial information science and technologies (remote sensing, GPS and GIS) have been evolving rapidly in recent years and play an increasing role in our society and daily life. The GIS Day Expo at the University of Oklahoma celebrated and showcased a broad spectrum of research, education, and outreach activities related to geospatial science, technology, and applications to attract and retain both undergraduate and graduate students in science, technology, engineering and mathematics, and prepare them for future employment in the geospatial sector. GIS Day provided the opportunity for researchers and students to link with and exchange ideas with the larger GIS community in Oklahoma including government agencies and private industry. A special program was presented for high school field trip visitors on career and education opportunities in geospatial information science. The event was attended by more than 200 faculty, researchers, students, exhibitors and visitors. A total of 24 exhibitors hosted booths highlighting their work and 22 student contestants presented research posters. Please visit the website <http://www.eomf.ou.edu/gisday/> for more information.

OklahomaView 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)

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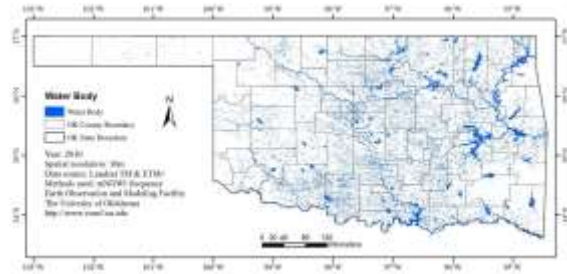
[debbie.deagen@montana.edu](mailto:debbie.deagen@montana.edu)

Russell Congalton, Board Chair:

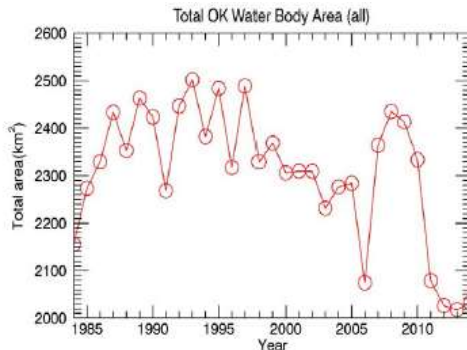
[russ.congalton@unh.edu](mailto:russ.congalton@unh.edu)

## RESEARCH ACTIVITIES – MAPPING OPEN SURFACE WATER BODIES 1984-2014

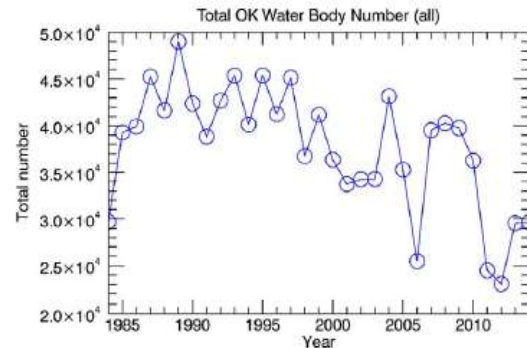
OklahomaView researchers mapped open surface water bodies across the state of Oklahoma from 1984-2014. These time series maps were derived from more than 17,000 Landsat images (30-m spatial resolution) and are used to understand the dynamics of surface water bodies in relation to climate. This dataset is useful in supporting water resource management, crop and livestock production, and conservation efforts in Oklahoma.



Map of open surface water bodies (at 900 m<sup>2</sup> and larger) in Oklahoma, 2010



Change in surface area of water bodies in Oklahoma, 1984-2014



Change in number of surface water bodies in Oklahoma, 1984-2014

## OKLAHOMAVIEW CONSORTIUM MEMBERSHIP

OklahomaView has implemented a Co-Director management structure in a cooperative effort between Dr. Xiangming Xiao of the University of Oklahoma and Dr. Saleh Taghvaeian [saleh.taghvaeian@okstate.edu](mailto:saleh.taghvaeian@okstate.edu) of Oklahoma State University. Ms. Melissa Scott [msscott@ou.edu](mailto:msscott@ou.edu) at the University of Oklahoma serves as state coordinator.



### OklahomaView Consortium Members

- USGS South-Central Climate Science Center
- USDA-ARS Grazinglands Research Laboratory
- Oklahoma Biological Survey
- Oklahoma Climatological Survey
- The Samuel Robert Noble Foundation
- OU Center for Spatial Analysis
- University of Tulsa

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

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