



# TEXASVIEW 2020 - 2021



## TEXASVIEW 2020 - 2021 ACTIVITIES

TexasView recognizes the impact on outreach and education through the **Earth as Art** exhibitions hosted by StateViews in recent years. TexasView has developed exhibition materials for **Texas as Art**, with the intent of displaying the exhibition in cooperation with TexasView partner institutions over the next several years. The exhibit will focus on 10 ecoregions of Texas defined by Texas' Department of Parks and Wildlife (TPWD).

This project engages multiple collaborators, including the TPWD, Texas' network of Regional Educational Service Centers (RESCs), the Fa Fa Gallery (host of the first exhibit January – February 2021) and the Sibley Nature Center (host of the second exhibit March – June of 2021). The exhibit highlights the applications of satellite imagery across a broad range of challenges that affect Texas' ecoregions. Focusing on Texas State parks “brings the challenges home” and makes the exhibit relevant for diverse venues.

Texas as Art has been disseminated through presentations in person (five); virtually (nine, including the 2021 South Dakota Geospatial Conference); and through walking tours of the physical exhibit (five). Proposals have been submitted to four new venues at partner institutions; Sul Ross State University will host the third exhibit January through March of 2022.



*Texas as Art image of Wichita Falls and Lake Arrowhead State Park area; fire scars from the drought-related 2011 fire season are brick-red spots marking the grasslands in the Rolling Plains ecoregion.*



*Change pair showing shrinkage of Lake Arrowhead during prolonged drought in north Texas 2008 - 2012*

**Development of materials for and participation in training of educators** continues. The virtual workshop from GY2019, designed to guide Earth and Environmental teachers at Middle and High School levels towards resources that enable them to easily integrate exciting satellite imagery, image-based animations, supporting videos, literature, and learning activities into curriculum, was offered again at two new ESCs. **“Integrating Satellite Imagery, Animations, and Videos into Your Curriculum: Developing a Portfolio of Resources and Topical Units”** offers resource elements from TexasView, NASA, the U.S. Geological Survey, NOAA and the U.S. Forest Service to form the foundation for a portfolio of teaching tools for classroom or distance teaching. Examples of topic-specific resource units were shared. Standards correlations were available for multiple subjects and grade levels.

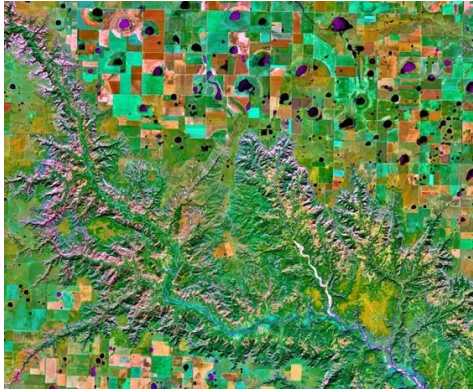
**New resources were developed for the workshops**, including an interactive landform identification scavenger hunt based on Texas as Art images, and a new “Which is Which” exercise using Texas as Art images. A virtual exhibit available through new partner The Sibley Nature Center gives access to the Texas as Art images for teachers to use in their classrooms, and access to multiple learning activities and new assessments that accompany the activities. All of the new activities are tied to state standards and are available in formats for use both virtually and face-to-face.

TexasView 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.

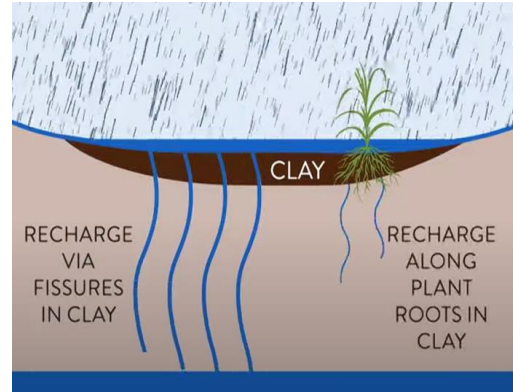


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## BENEFITS TO TEXAS



*I have an image a flat plateau covered with round playa lakes filled with water because of recent rainfall and runoff. A river cuts a deep canyon into the plateau.*



*I have a diagram illustrating how rainfall sinks through a playa lake into the ground, recharging the groundwater in an aquifer.*

- Teachers have new, engaging, and flexible teaching resources including standards-based units that integrate
  - Easily accessible imagery from vetted NASA and USGS websites that are continuously updated
  - Informative short content videos from NASA, NOAA, USGS, National Geographic, and other vetted sites
  - Grade-appropriate short readings that offer graphs, photographs, and references for unit extensions
  - Activities with assessments that are keyed to state standards for multiple grade levels
- The illustration above is from the scavenger hunt that teachers use with students while visiting or virtually viewing the Texas as Art exhibit. It links with a TPWD video and lessons about playa lake rehabilitation projects.
- Most activities are available in multiple formats including games, interactive quizzes, and lessons.
- Imagery is associated with state-managed lands and linked to Texas Parks and Wildlife educational resources.

## TEXASVIEW CONSORTIUM MEMBERSHIP

Established in 2002, the TexasView Remote Sensing Consortium consists of thirteen university partners distributed across the state. Members include universities large and small, public and private. TexasView members work closely with state, regional and local agencies to promote remote sensing at all levels.

TexasView is founded on the concept of free and public exchange among its members of data, information and knowledge concerning the Earth and its processes, as observed by remote sensing and GIS technologies, for education, research, and local government applications.



Midwestern State



The University of Texas at Austin



The University of North Texas



Sul Ross State University



Texas A&M



Texas Tech



University of Texas of the Permian Basin



Stephen F. Austin University



Texas A&M at Corpus Christi



The University of Texas at El Paso



Texas State University



The University of Texas at San Antonio



University of Houston

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