

WATCHING OVER TEXAS FROM SPACE

An Earth Observations education resource for grades 4 -12 in support of TEKS covering
Earth Science and Environmental Science Standards

Developed by TexasView with support from Grant Number G14AP00002 from the
Department of the Interior,
United States Geological Survey to AmericaView

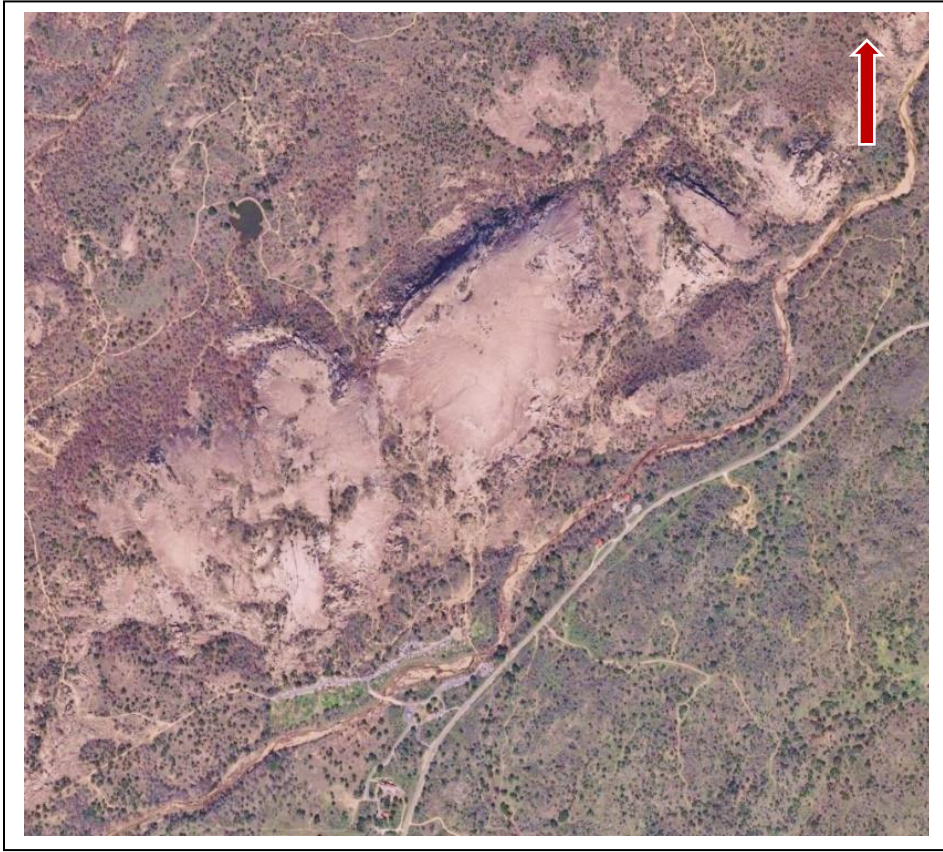
3.1.3 I HAVE, WHO HAS?

“I have, Who Has?” is a game that challenges students to understand descriptions of surface features as seen on satellite imagery and find the on-the-ground photographs that pair with the images. This game is suitable for grades 4 – 12 and is best played in small groups (4 – 6 students). Students draw a “hand” of cards from the center of the table. The game begins as one student reads the image or photograph description on the back of a card as they show or pass the image or photograph to the other players for viewing. The student who has the requested matching photograph or image speaks up and shows or passes their card among the players. The paired cards are returned to the center of the table. Play rotates to the next student and continues until all images are paired with their matching photographs.

The images and photographs on the following pages are designed to be print two-sided, with pages flipped on the long edge. BEGIN PRINTING WITH PAGE 2. Laminating the pages before separating the individual cards is highly recommended! All imagery was captured from the Texas Watershed Viewer:

<https://tpwd.maps.arcgis.com/apps/Viewer/index.html?appid=2b3604bf9ced441a98c500763b8b1048>

All photographs captured from Texas State Park websites (see the Which is Which imagery key for those links).

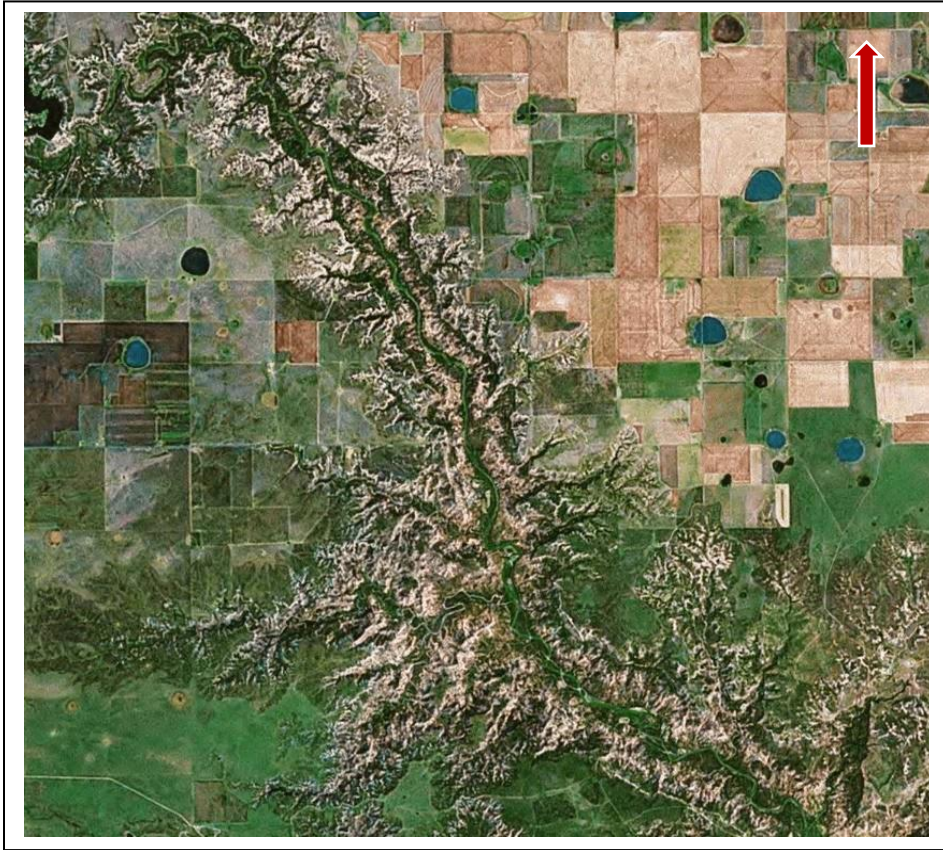


I have an image of an oval mountain bare of vegetation that rises above a sparsely forested landscape.

Who has a photograph of hikers on a bare granite hill showing exfoliation of large boulders along surface-parallel fractures?

I have an image of three rivers entering an east-west trending bay that joins a narrow bay behind a barrier island.

Who has a photograph of a narrow bay between a barrier island and the mainland, where fishing prospects look good?

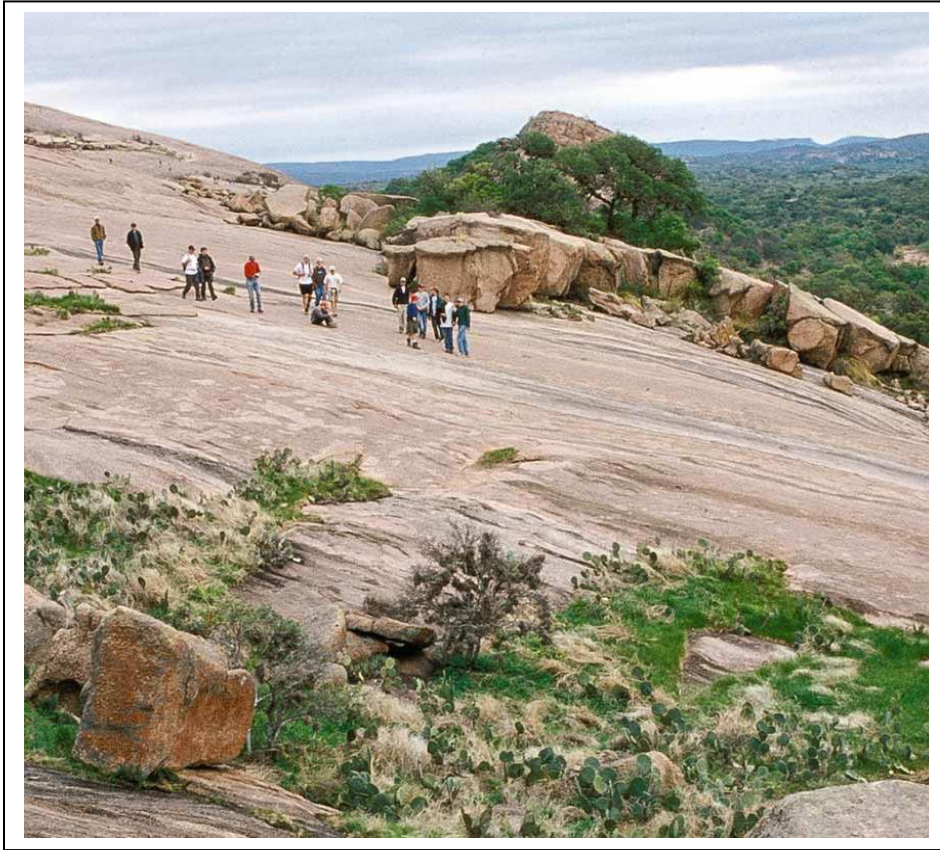


I have an image of a SE-trending river flowing in a wide, deep canyon cut into a flat-lying agricultural landscape, which is dotted with small seasonal lakes.

Who has a photograph taken from the inside of a deep canyon cut into a flat-lying plateau?

I have an image of an E-W-trending meandering river that has eroded a narrow canyon into light-colored bedrock in a hilly plateau.

Who has a photograph of hikers beside a river channel carved into light-colored bedrock?



I have a photograph of hikers on a bare granite hill showing exfoliation of large boulders along surface-parallel fractures.

Who has an image of an oval mountain bare of vegetation that rises above a sparsely forested landscape?

I have a photograph of a narrow bay between a barrier island and the mainland, where fishing prospects look good!

Who has an image of three rivers entering an east-west trending bay that joins a narrow bay behind a barrier island?



I have a photograph taken from the inside of a deep canyon cut into a flat-lying plateau.

Who has an image of a SE-trending river flowing in a wide, deep canyon cut into a flat-lying agricultural landscape, which is dotted with small seasonal lakes?

I have a photograph of hikers beside a river channel carved into light-colored bedrock.

Who has an image of an E-W-trending meandering river that has eroded a narrow canyon into light-colored bedrock in a hilly landscape?

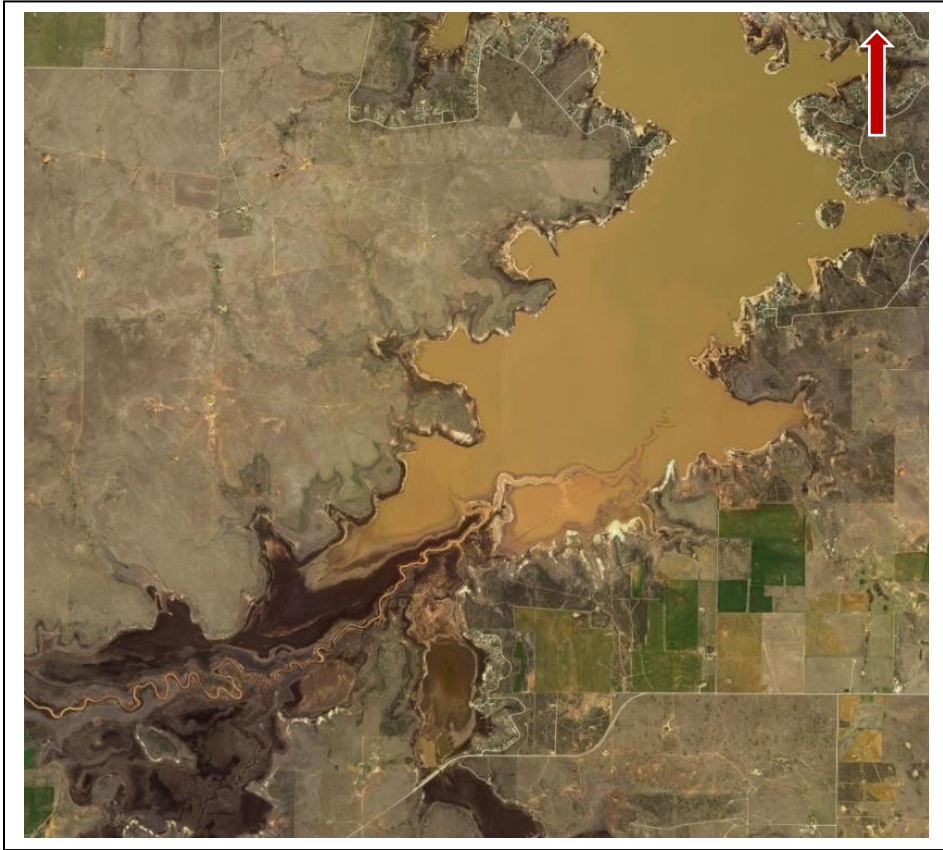


I have an image of a northeast-trending barrier island enclosing a large bay, which is spanned by a bridge on its northwest side.

Who has a photograph taken from a barrier-island dune field looking towards the beach and surf looking out into the Gulf of Mexico?

I have an image of a broad sand dune field bordered on its southwest side by an oil field.

Who has a photograph of a picnic area surrounded by tall white sand dunes?



I have an image of a meandering, muddy stream flowing a lakebed exposed by drought, from the southwest corner of the image into a muddy lake.

Who has a photograph of a lake a level so low from a drought that the fishing pier is on dry land?

I have an image of northwest-trending channel in an industrial landscape that contains three large islands. Numerous boats with white wakes appear in the channel

Who has a photograph of a ship channel with a ship passing between the mainland and an island?

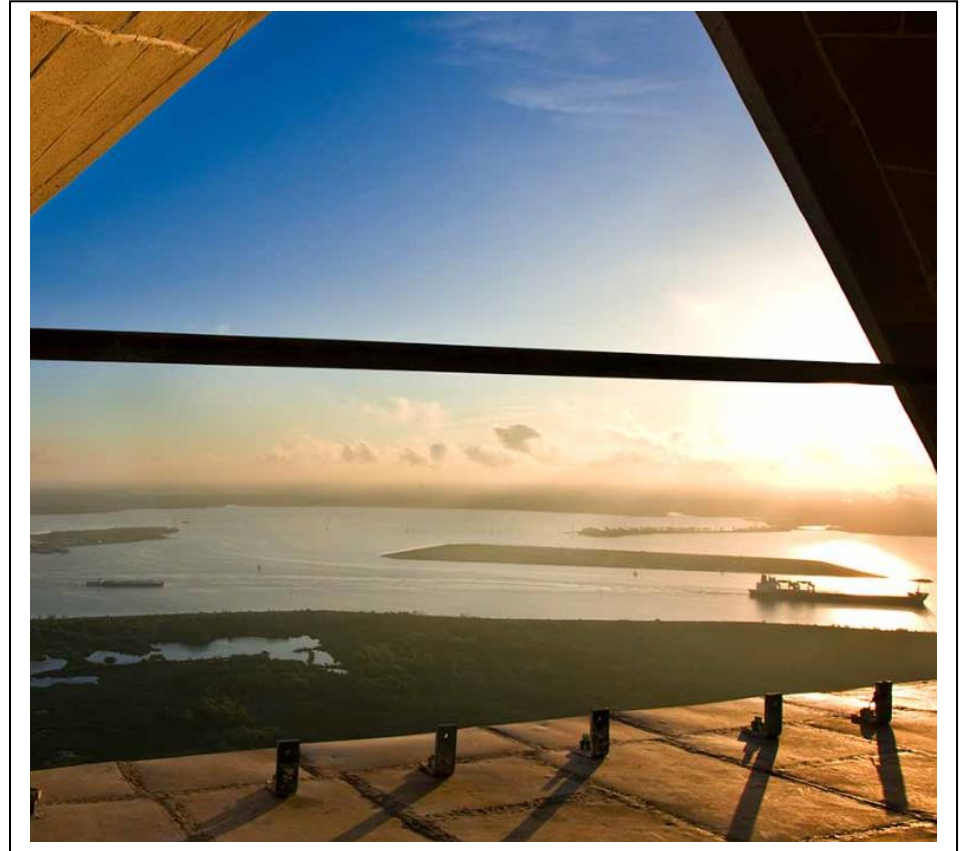
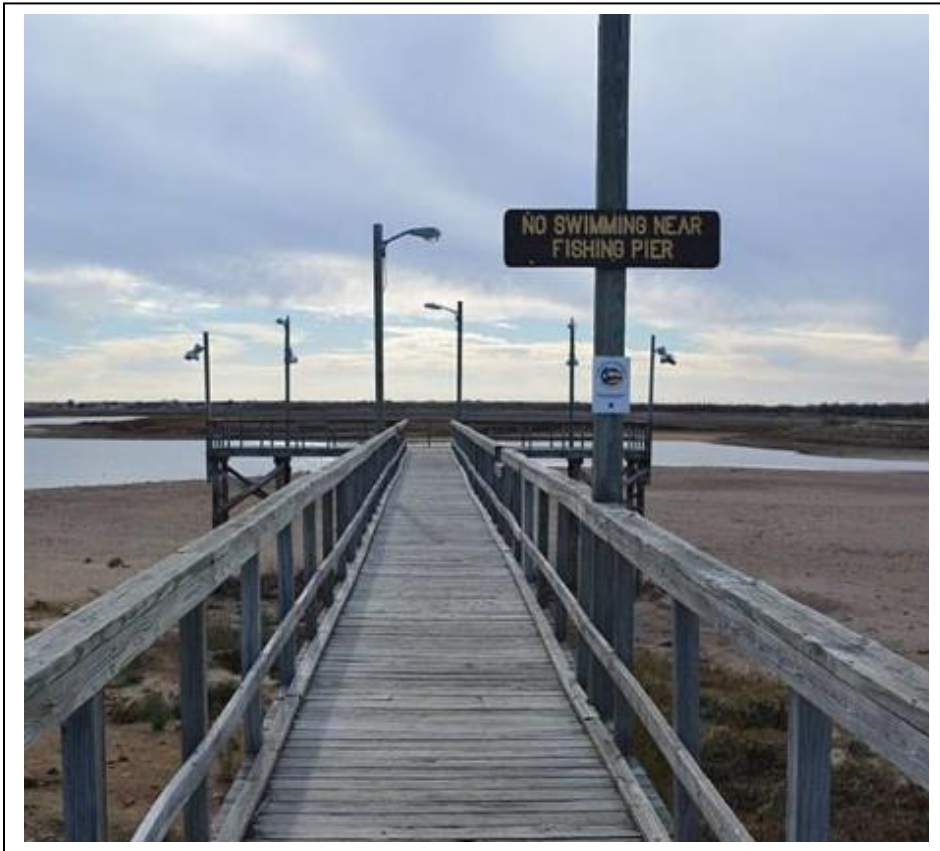


I have a photograph taken from a barrier-island dune field looking towards the beach and surf looking out into the Gulf of Mexico.

Who has an image of a northeast-trending barrier island enclosing a large bay, which is spanned by a bridge on its northwest side?

I have a photograph of a picnic area surrounded by tall white sand dunes.

Who has an image of a broad sand dune field bordered on its southwest side by an oil field?



I have a photograph of a lake whose level has dropped so much in a drought that the fishing pier is on dry land.

Who has an image of a meandering, muddy stream flowing from the southwest corner of the image into a muddy lake?

I have a photograph of a ship channel with a large ship passing between the mainland and an island.

Who has an image of NW-trending channel in an industrial landscape that contains three large islands; numerous boats with white wakes appear in the channel?



I have an image of a north-south trending mountain range dividing a city into the “east side” and the “west side”. An airport is visible on the southeast side of the image.

Who has a photograph of a campground at the base of a mountain range?

I have an image of a meandering river alley in a hilly landscape that has been flooded to create a recreational lake.

Who has a photograph of a campground on the edge of a lake in a hilly landscape?



I have an image of a heavily developed landscape with undeveloped green spaces along a SE-trending river and around lakes in the SW corner of the scene.

Who has a photograph of bikers on a trail through a grassy clearing amid a tree-covered landscape??

I have an image of a muddy, meandering stream that flows through a forest into a dark lake on the east side of the scene.

Who has a photograph of a boat moving through a forested river where trees are growing in the channel?



I have a photograph of a
campground at the base of a
mountain range.

Who has an image of a north-south
trending mountain range dividing a
city into the “east side” and the “west
side”? An airport is visible on the
southeast side of the image.

I have a photograph of a campground
on the edge of a lake in a hilly
landscape.

Who has an image of a meandering
river valley in a hilly landscape that
has been flooded to create a
recreational lake?



I have a photograph of bikers on a trail through a grassy clearing amid a tree-covered landscape.

Who has an image of a heavily developed landscape with undeveloped green spaces along a SE-trending river and around lakes in the SW corner of the scene?

I have a photograph of a boat moving through a forested river where trees are growing in the channel.

Who has an image of a muddy, meandering stream that flows through a forest into a dark lake on the east side of the scene?