

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

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3.3 Measure It!

Instructions: On the following page, you will find an image of Corpus Christi Bay and Mustang Island (a barrier island that separates the Bay from the Gulf of Mexico).

Inserted in the image are a north arrow and a scale (top right of the image). A geographic grid also surrounds the image (location coordinates are given with the X-axis first, followed by the Y-axis, (e.g. the white star on the east side of the image is located at coordinate 6.0, 3.0). These geographic references will help you to locate objects on the image described in the exercise. You will find specific natural and man-made objects the image area and measure lengths and distances on the image.

Key Phrase correlations: **Recognize landforms/land features;**
Interpret Earth's surface using a variety of methods (select "maps" tab to access multiple resolutions of imagery and topographic maps; a video under the "Learn about the Park/photos and multimedia/multimedia presentation" tab provides a virtual field trip); **Impact of humans on Earth's subsystems.**

Key Word correlations: **Bays; barrier islands; satellite and aerial imagery; topographic maps; erosion.**

MEASURE IT! Corpus Christ Bay & Mustang Island, Texas



EXERCISE: Corpus Christi Bay and Mustang Island

- 1. A bridge spans the bay between Corpus Christi and Portland. How long is it?**
 - a. 1 mile
 - b. 5 miles
 - c. 4 miles
 - d. 7 miles
- 2. Find the airport (2.7, 5.5). How long is the northeast-trending (shorter) runway?**
 - a. 0.5 miles
 - b. 1.5 miles
 - c. 3 miles
 - d. 1.0 mile
- 3. How wide is Mustang Island just north of Mustang Island State Park?**
 - a. 1.0 miles
 - b. 1.5 miles
 - c. 2 miles
 - d. 3 miles
- 4. How long is the island centered at (4.7, 2.2)?**
 - a. 5 miles
 - b. 2 miles
 - c. 1 miles
 - d. 3 miles
- 5. If I wanted to launch a boat from the southwest end of the bridge in question 1 and travel to the entry of creek that enters Corpus Christi Bay just north of Mustang Island State Park (5.3, 5.5), how far would I have to go?**
 - a. 15.5 miles
 - b. 7 miles
 - c. 10 miles
 - d. 13 miles

Source: Texas Watershed Viewer.

<https://tpwd.maps.arcgis.com/apps/Viewer/index.html?appid=2b3604bf9ced441a98c500763b8b1048>, accessed January 20, 2017. Search key words Mustang Island State Park