

## MUSTANG ISLAND FIELD QUESTIONNAIRE

Use these questions to test how well you understand the concepts and barrier island environments visited during the virtual tour of Mustang Island. The Mustang Island Field Guides can be found at: <http://coastal.beg.utexas.edu/thscmp/fieldguides.htm>.

1. Dunes formed by the accumulation of wind blown sand on the backshore just seaward of the foredunes and anchored by vegetation?
2. Define the following terms and make sketches if possible:
  - Beach
  - Barrier Island
  - Vegetated Barrier Flat
  - Longshore Drift
  - Backbeach
  - Forebeach
  - Washover Fan
3. A temporary tidal inlet that occurs where Gulf of Mexico waters driven by storms have washed over Mustang Island eroding a channel and depositing sand in the bay.
4. What is the name of wall built in the ocean along a navigational channel, to stabilize the channel and provide protection from waves and currents?
5. Plants along the bay margin have adapted to survive in an environment of salt water and low oxygen in the soil. Black Mangroves obtain oxygen through spike-like woody stems that are an extension of the root system. What are these special stems are called?
6. The plants at the bay shore are an important part of the ecosystem of the bay and the geology of the bay. Can you list some of the roles of these plants?
7. Which body of water lies between Mustang Island and the mainland of Texas?

**Label the following diagram**

MUSTANG ISLAND

GULF OF MEXICO

