

Name: _____

Exploring Water Bodies with Google Earth Field Guide

Ocean tides are caused by the gravitational attraction of the moon and to a lesser extent the sun during Earth's orbital motions. In this activity, you will use Google Earth to analyze the shapes of four water bodies to determine if these would be good places to locate a tidal power plant.

Read **all** instructions on your handout and answer **each** question.

Water Bodies Data Chart

Name of Water Body	Tidal Range (meters)	Sketch/Drawing of the Water Body	Shape of the Water Body (For example: funnel-like, elongated, hour-glass, circular, large and open)
Bay of Fundy			
Severn Bay			
Baltic Sea			
Gulf of Mexico			

1. Which **two** water bodies are **good** locations for tidal power plants?

Why?

2. Which **two** water bodies are **not good** locations for tidal power plants?

Why?

3. What is the relationship between tidal ranges and the shape of a water body?

4. What features would the **best location** for placing a tidal power plant need?