

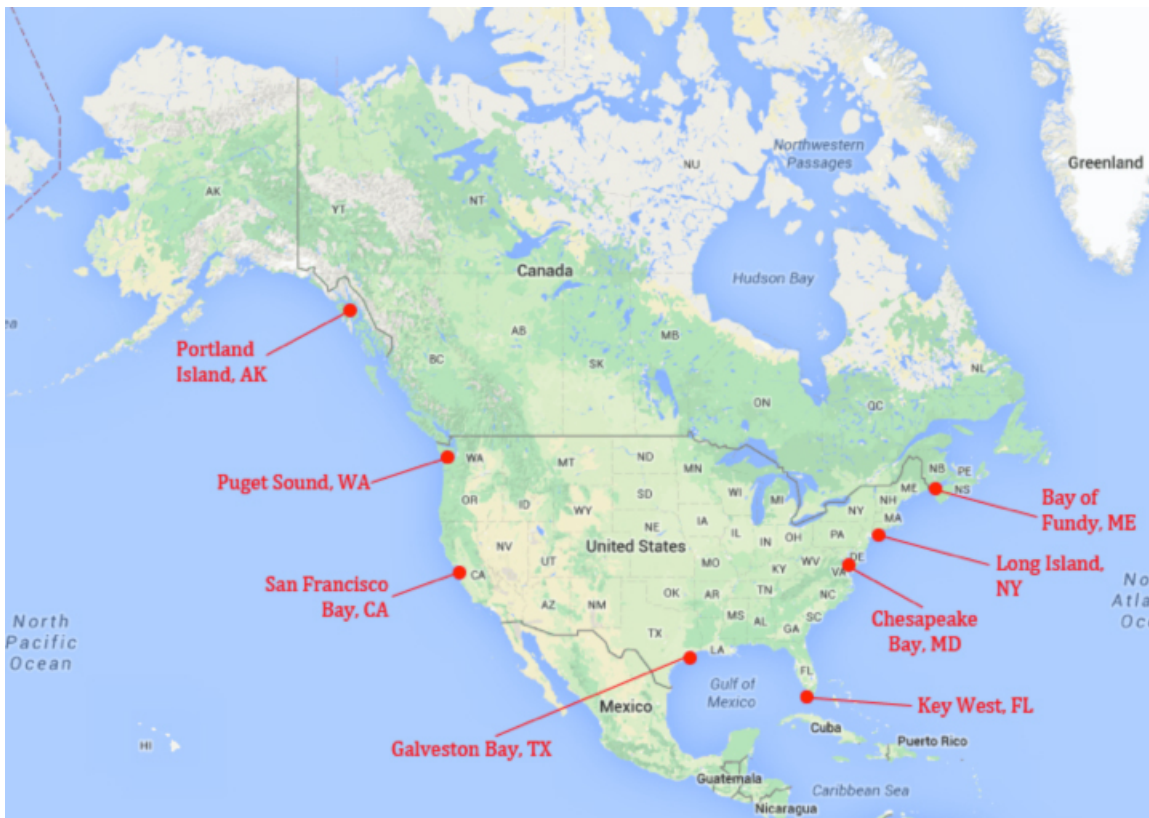
## TIDAL MARIGRAMS PART I

### Chapter 8 Tides

#### Oceanography

### PROCEDURE

1. You will be assigned one of the following locations.



2. Visit your assigned location Google Map link ([http://www.steinbachscience.com/ocean/lessons/O\\_Ch8\\_MB\\_Ch11.html#TIUM](http://www.steinbachscience.com/ocean/lessons/O_Ch8_MB_Ch11.html#TIUM)) to find a NOAA Station (<http://tidesandcurrents.noaa.gov/stations.html?type=Water+Levels>) that is nearest to your assigned location.
  - a. Click on the station that corresponds to your assigned location.
  - b. Record your station's Name, ID, Date Established, Latitude, and Mean Range. This information can be found under the "Station Info" tab.
  - c. Then click back on the "Tides/Water Levels" tab and choose "Water Levels" from the menu.
  - d. Set your data range to October 1 to October 31 for the current year.
  - e. Analyze at your marigram.
3. Using the Moon Phase link (<http://www.timeanddate.com/calendar/moonphases.html>), determine the dates of the new, 1<sup>st</sup> quarter, full, and last quarter moons. Then make connections between these dates and the tidal changes in your marigram.
4. Answer the "PART I QUESTIONS." The link to these questions can be found on our "Tides and Intertidal Zone (O Ch 8 & MB Ch 11)" webpage ([http://www.steinbachscience.com/ocean/lessons/O\\_Ch8\\_MB\\_Ch11.html#TIUM](http://www.steinbachscience.com/ocean/lessons/O_Ch8_MB_Ch11.html#TIUM)).