

Fieldtrip #2 –Alternate Exercises to Blacks Beach Shoreline Part of Fieldtrip: Ocean Swell and Surface Currents Questions

This alternative assignment addresses shoreline currents. Students need to click on the listed link to view and study charts and videos that describe and explain shoreline currents. Afterwards, the student needs to answer a set of questions.

Directions: The educational video covering the various types of ocean currents for this exercise was put together by the NOAA, and can be found at this the Monterey Institute URL:

<http://www.montereyinstitute.org/noaa/lesson08.html>

Below are 10 questions that pertain to the online shoreline current exercise found at the above URL. Note that a couple of the topics are skipped because they are pretty much redundant exercises.

Shoreline Currents Exercise Questions:

- 1) What causes longshore currents to form?
- 2) Describe their characteristics and movement pattern.
- 3) What are their effects on the shoreline?
- 4) What is the prominent direction of longshore currents along our stretch of coast? Why?
- 5) What causes rip currents to form?
- 6) Describe their characteristics and movement pattern.
- 7) What are their effects on the shoreline?
- 8) If you are caught in a rip current, what should you do to get out of it?
- 9) What causes upwelling currents along a coast to form?
- 10) What are their effects on the shoreline?