

**Oceanography Lab (OCEAN 10): Kokorowski
Topographic and Bathymetric Maps, Contours and Profiling**

Lab Exercise

Names: Joseline Lopez
Angie A.

Part 1: Map Scale

Use the bathymetric map of San Clemente Island to answer the following questions. PLEASE BE CAREFUL NOT TO DRAW ON THE MAPS.

1. Horizontal bar scales at the bottom of the map are provided in what units?

Statute Miles, Kilometers & nautical miles.

2. The horizontal scale of this map is also given as a representative fraction, or ratio. What is the fractional scale of this map?

1:250,000

3. One inch on the map represents how many inches on the Earth's surface?

250,000 in.

4. Based on your knowledge of fractional map scales, practice making the following conversions. Recall that there are 12 inches in 1 foot, and there are 5280 feet in a mile.

a. 1:150,000: 1 centimeter on the map represents 150,000 centimeters on Earth.

b. 1:100,000: 1 inch on the map represents _____ feet on Earth. Show your work:

c. 1:250,000: 1 inch on the map represents _____ miles on Earth. Show your work:

Part 2: Reading a Bathymetric Map: Contour Lines

Return to the San Clemente Island, CA bathymetric map to answer the following questions.

5. What units are the depth measurements in?
6. Look at the bathymetric contours near the shoreline of San Clemente Island. What is the contour interval in shallow water?
7. What is the contour interval in deeper water?

Oceanography Lab Exercises Answers

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