

First Extra Credit Assignment

EPS/IB C82 Fall 2006

Assignment 1: Due AT THE BEGINNING OF CLASS on Wednesday 9/06. Late work will not be accepted. This assignment is worth 20 of the total 100 extra credit points.

The goal of this assignment is to familiarize you with the geography and major features of the world's oceans. Please trace or draw, by hand, a Mercator map of the world (on a Mercator map, lines of longitude and latitude are perpendicular). You may find the following sections of the textbook helpful: Box 1.1 (p 9), 3.20, 4.12-4.13, 4.17-4.18, and Appendix IV in the 5th edition [Box 2.1 (p 28), 3.19, 4.12-4.13, 4.18-4.19, and Appendix IV in the 4th edition]. Your drawing does not have to be perfect, but if we can't read your handwriting, we can't grade it.

A. Trace or draw (by hand!) and label all seven continents (no political boundaries are needed). Please use Figure 1.16b in the 5th edition of the textbook (Figure 2.11 in the 4th edition) as a template for your continents. Make sure that the three major oceans are unbroken.

B. Draw and label the Equator (0 degrees Latitude) and the modern Prime Meridian (0 degrees Longitude).

C. Label these 5 oceans:

- * Arctic Ocean
- * Pacific Ocean
- * Atlantic Ocean
- * Indian Ocean
- * Southern Ocean*

* the Southern Ocean is hard to find in your textbook - it's the area of the global ocean south of 50 degrees S

D. Label these 7 major seas:

- * Norwegian Sea
- * Greenland Sea
- * Labrador Sea
- * Mediterranean Sea
- * Bering Sea
- * Ross Sea**
- * Weddell Sea**

**for the location of the Ross and Weddell seas, try searching on Google.

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E. Draw the major plate boundaries (this includes ridges and rises, subduction zones, and transform faults). Then label these 9 major plates:

- * Pacific Plate
- * North American Plate
- * South American Plate
- * African Plate
- * Eurasian Plate
- * India-Australian Plate
- * Antarctic Plate
- * Cocos Plate
- * Nazca Plate

Then label these 6 major mid ocean ridges and rises:

- * Mid-Atlantic Ridge
- * East Pacific Rise
- * Juan de Fuca Ridge
- * Atlantic-Indian Ridge
- * Pacific-Antarctic Ridge
- * Mid-Indian Ridge

F. Label the deepest oceanic trench in the world on your map. How deep is it?

G. What is the approximate average depth of the seafloor?

H. PRINT your name, SIGN your name, and write your STUDENT ID on your map.