

Unit 10 Section 2 Study Guide

Directions: Answer the following questions.

Reviewing Objectives Part 1:

1. Explain how the interactions between the oceans and the atmosphere influence global and regional climate. Include the major concepts of heat transfer by ocean currents, thermohaline circulation, boundary currents, evaporation, precipitation, climatic zones, and the ocean as a major CO₂ reservoir. Pages: 494, 519-24, 634
2. Explain the dynamics (including ocean-atmosphere interactions) of the El Niño-Southern Oscillation (ENSO) and its effect on continental climates. Pages: 635

Reviewing Major Concepts Part 2: *Chapter 25 section 1, Chapter 20 section 1*

1. Explain how latitude determines the amount of solar energy received on Earth.
2. Describe how latitude determines wind patterns.
3. Describe how the different rates at which land and water are heated affect climate.
4. Explain the El Niño–Southern Oscillation cycle.
5. Summarize the conditions that cause monsoons.
6. Explain how elevation affects climate.
7. Predicting Consequences If global temperatures increase, how would this change affect the ability of the oceans to absorb CO₂?