

NAME _____

87.202 - PRINCIPLES OF EARTH & ENVIRONMENTAL SYSTEMS II
STUDY QUESTIONS AND PROBLEMS X

1. Why does the ocean act as a thermostat, preventing extremes of temperature in coastal regions?
2. Draw a graph showing incoming energy from the sun and outgoing energy from the earth as a function of latitude. What is the significance of this graph?
3. Write the general equation used to calculate the heat budget for the world ocean. Explain the significance of the most important terms. Which terms are the most significant in the tropical ocean? In the polar ocean?

4. How does the large latent heat of melting and of evaporation of water affect the earth's climate?

5. List and describe three possible reasons for climate change.