

Study Questions: Guest Lecture on Climate & Biomes (John Carothers, Cabrillo College)

1. Explain the terms climate, weather and biomes.
2. Name 3 factors that affect an area's climate.
3. Discuss reasons why deserts exist where they do and why the poles of the earth are colder than the equator.
4. Describe what is meant by the term "rain shadow."
5. What happens to air temperature and moisture content as air pressure increases or decreases? Explain the term "adiabatic cooling or heating."
6. Explain the term "Hadley cell;" how do Hadley cells affect climate?
7. Describe the three factors setting climate averages (latitude and Insolation, Ocean currents, Topography)
8. Know how ocean currents affect climate on the east vrs. The west coast of the US
9. How has climate change affected the Monte Verde cloud forest of Costa Rica?