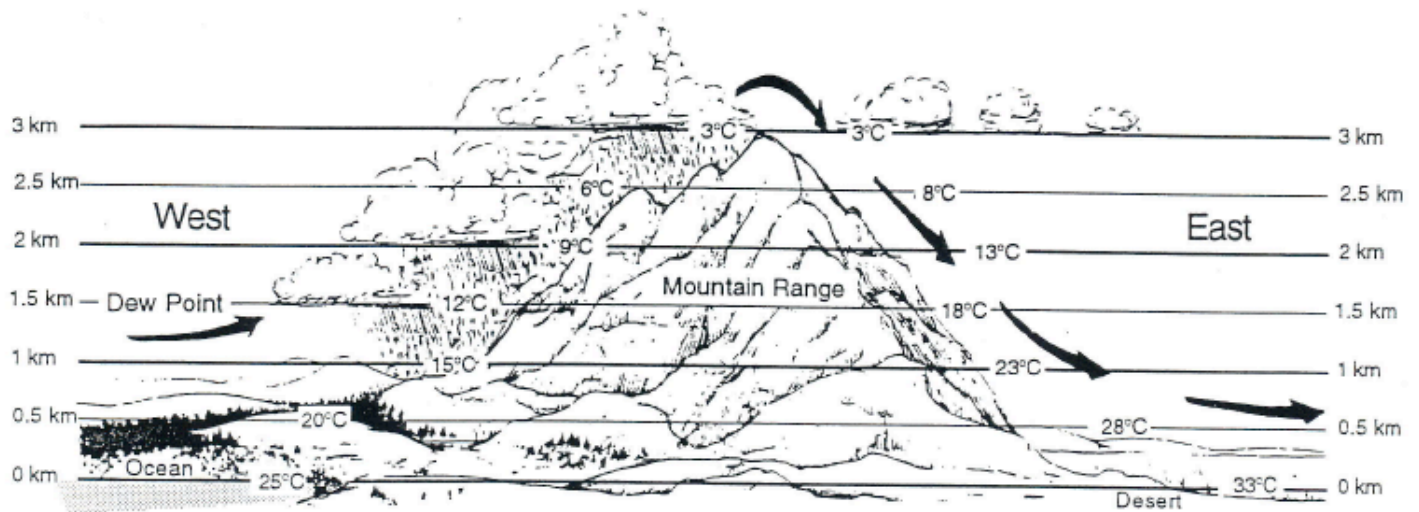


## OROGRAPHIC EFFECTS



1. What is the prevailing wind direction in this location? \_\_\_\_\_
2. Define each of the following in your own words:
  - a. windward: \_\_\_\_\_
  - b. leeward: \_\_\_\_\_
  - c. adiabatic: \_\_\_\_\_
  - d. condensation: \_\_\_\_\_
  - e. rain shadow: \_\_\_\_\_
3. Why are clouds forming on the western side of these mountains?  
 \_\_\_\_\_
4. What is the temperature at an altitude of 2 kilometers above sea level on the windward side? \_\_\_\_\_
5. What is the temperature at the same altitude (2 km) on the leeward side? \_\_\_\_\_
6. Why is the air warmer on the leeward side than at the same elevation on the windward side?  
 \_\_\_\_\_  
 \_\_\_\_\_
7. Describe the climate on the eastern side of these mountains. \_\_\_\_\_