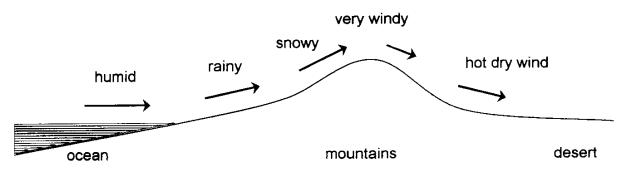
The sketch below shows a highly simplified pattern of the climate on the West Coast. It all starts with a wind (arrows) blowing from the Pacific Ocean to the land. Explain in a nutshell why each of the weather conditions labeled above the arrows occurs. Why doesn't the hot wind in the desert rise, causing convection?



- 1. Humid sahrahed vapor pressure our ocean
- 2. Rainy Air is adiabatically cooled as it rises -> post decreases -> air becomes supersaturated -> water condenses
- 3. Snowy

 T is below freezing point vapor -> solid
- 4. Very windy Continuity equation:
- 5. Hot dry windy Adiabatic compression a hot and duse; doesn't rise