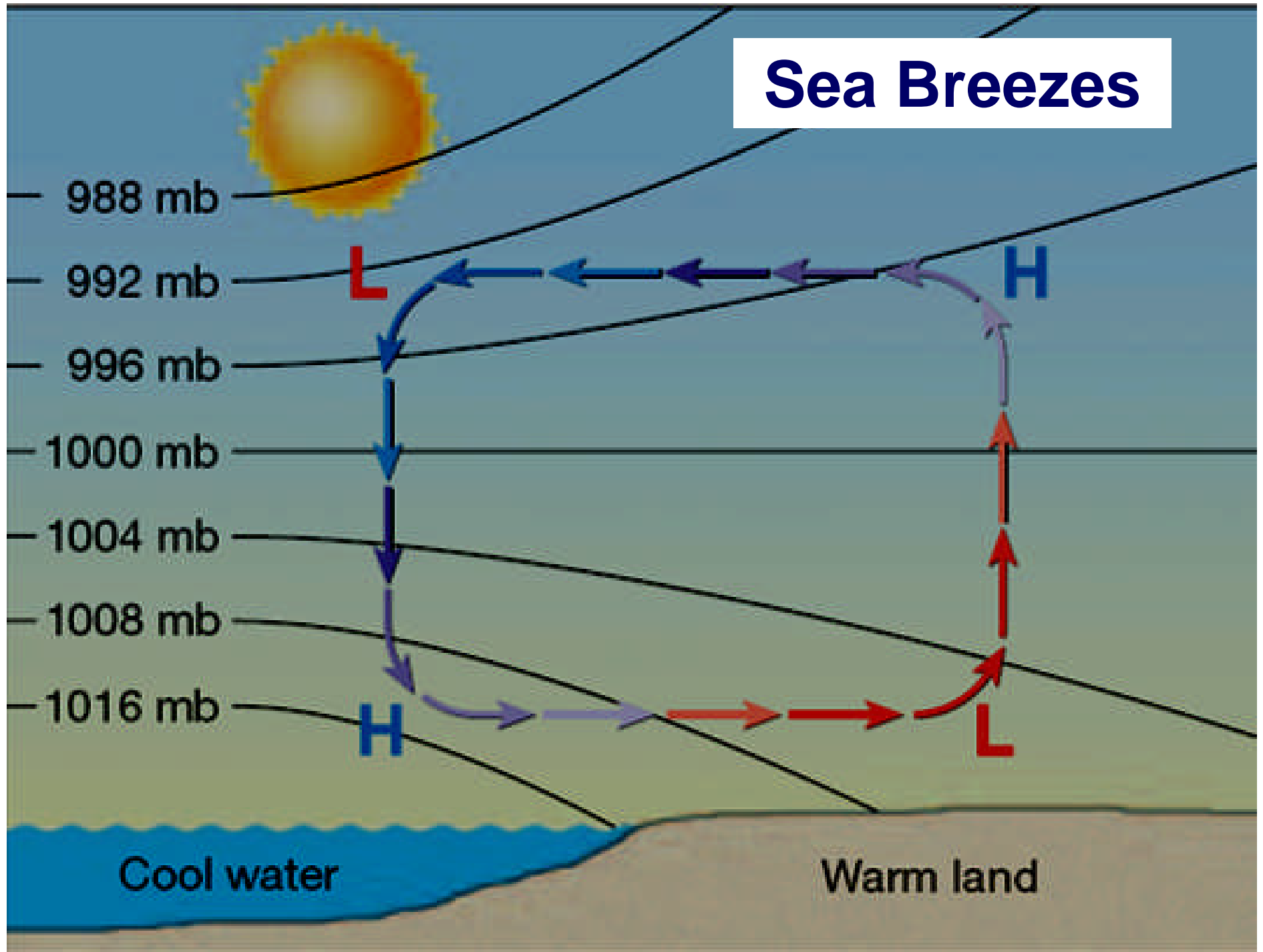


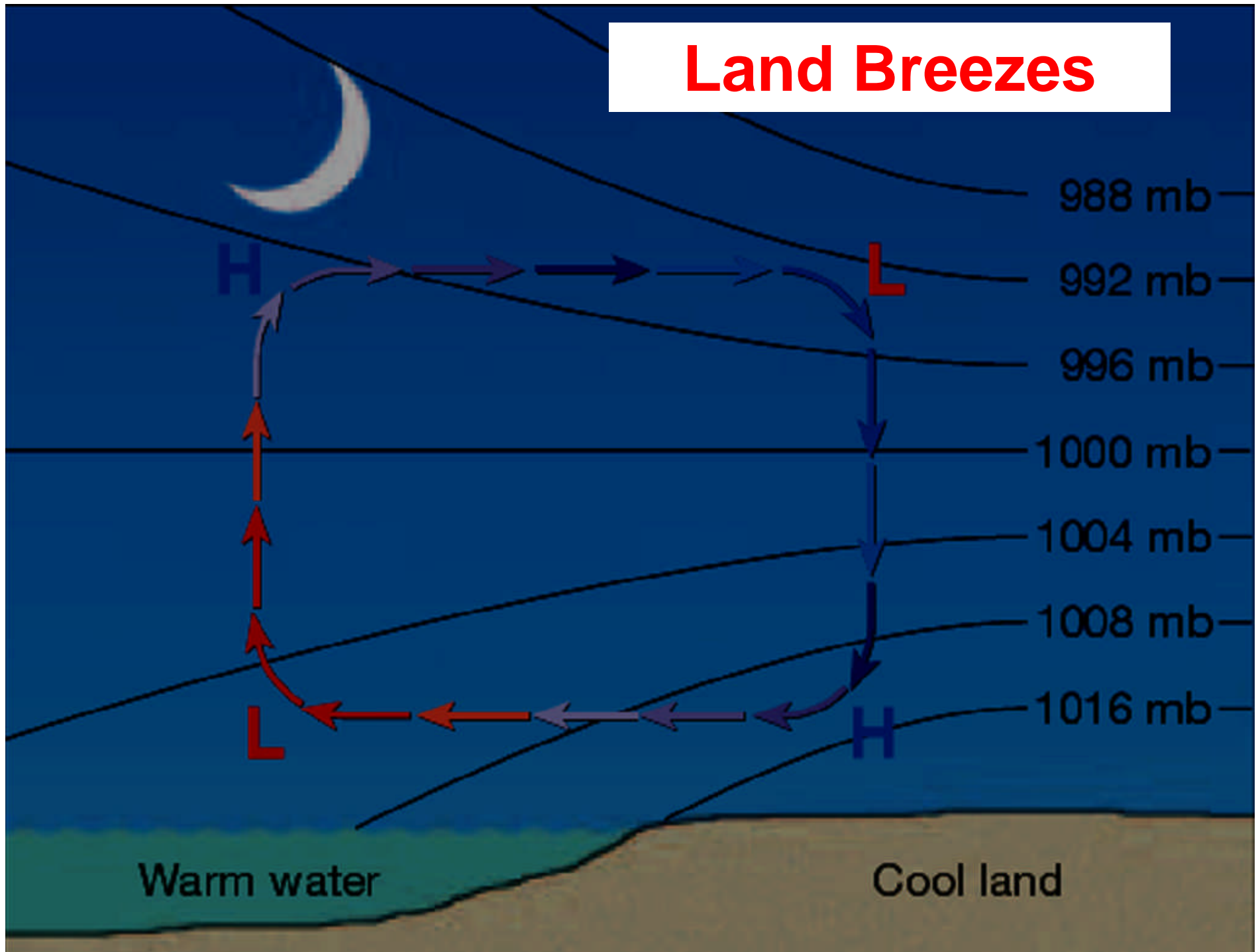
Regional Wind Systems

Chapter 19.3

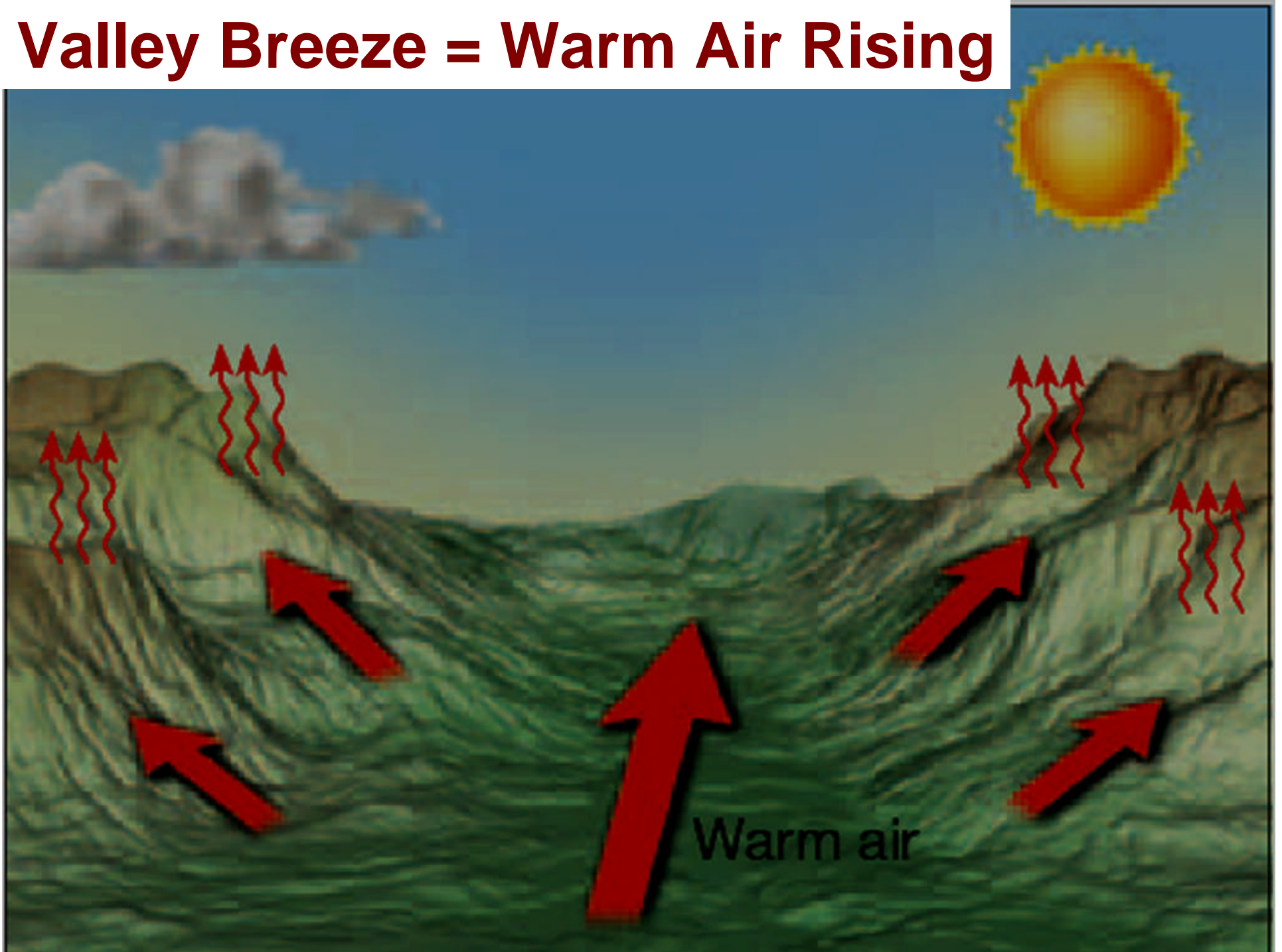
Sea Breezes



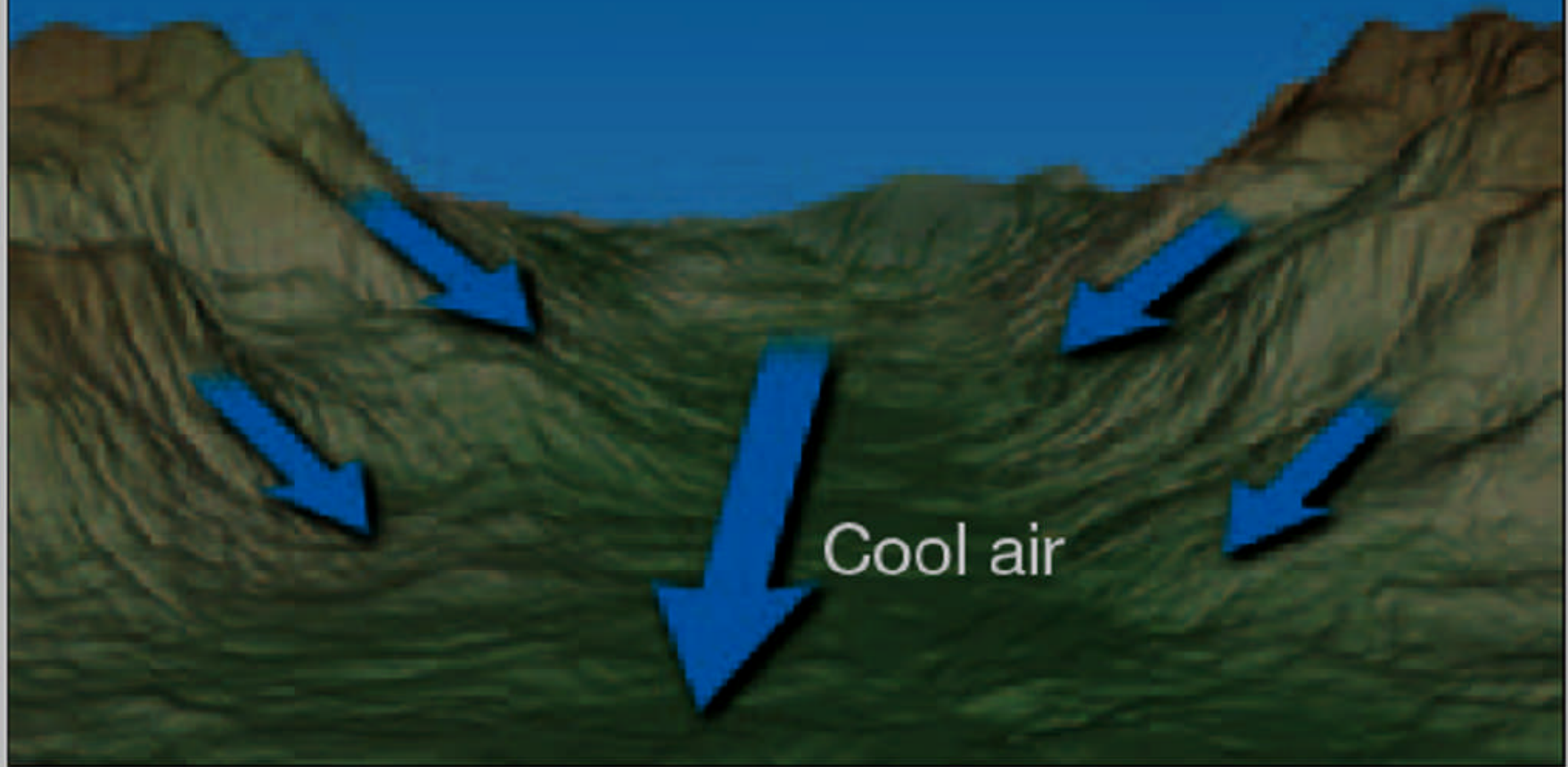
Land Breezes



Valley Breeze = Warm Air Rising



Mountain Breeze = Cold Air Drainage

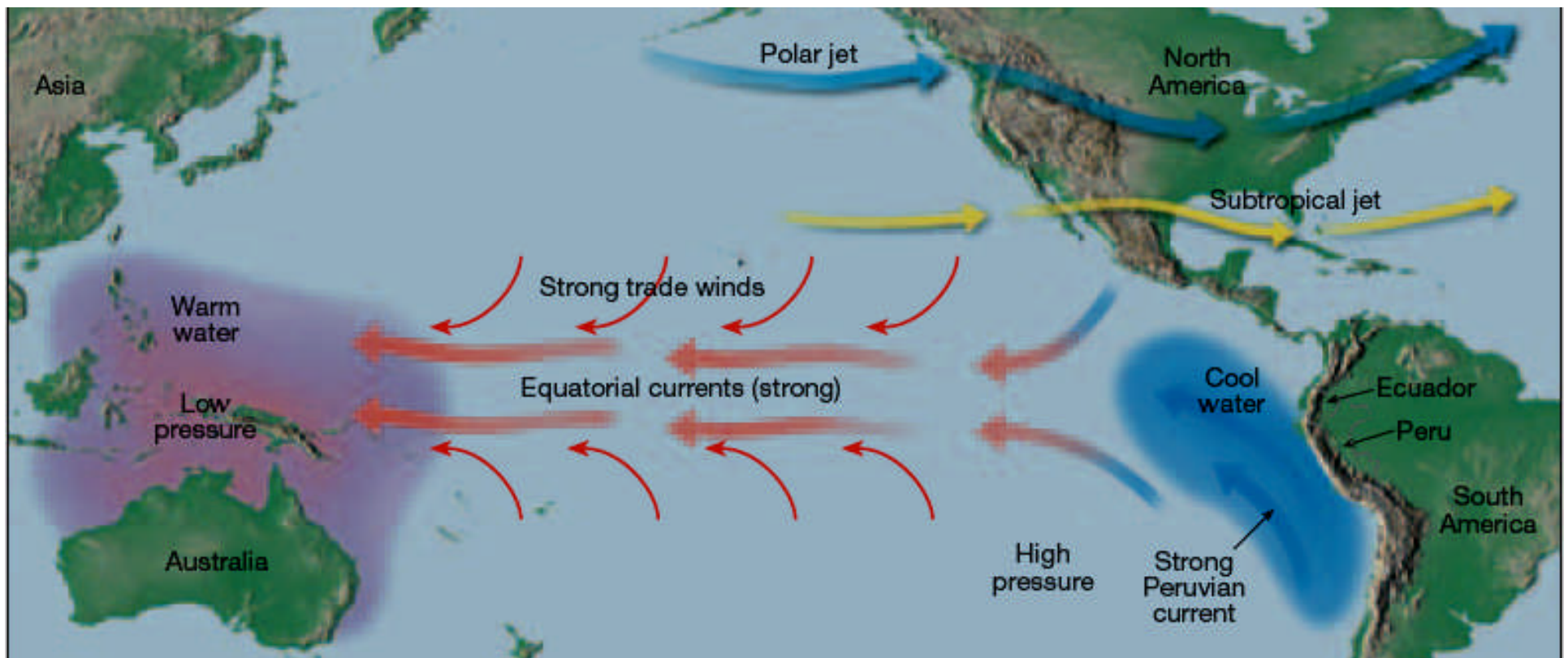


Normal Condition = La Nina

Peru/Ecuador: Cold ocean current with upwelling. Good fishing.

Australia/Indonesia: Wet weather.

California/Mexico: Varies from wet to dry.

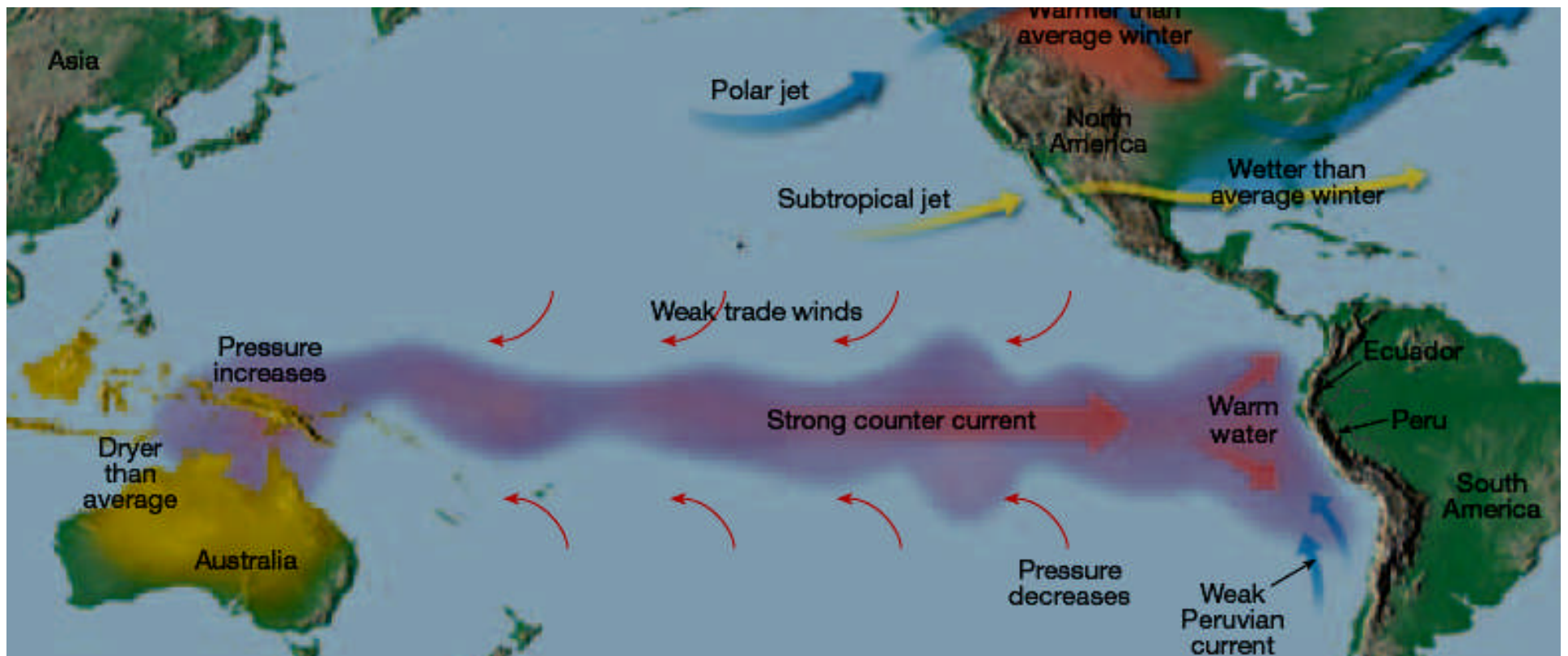


El Nino

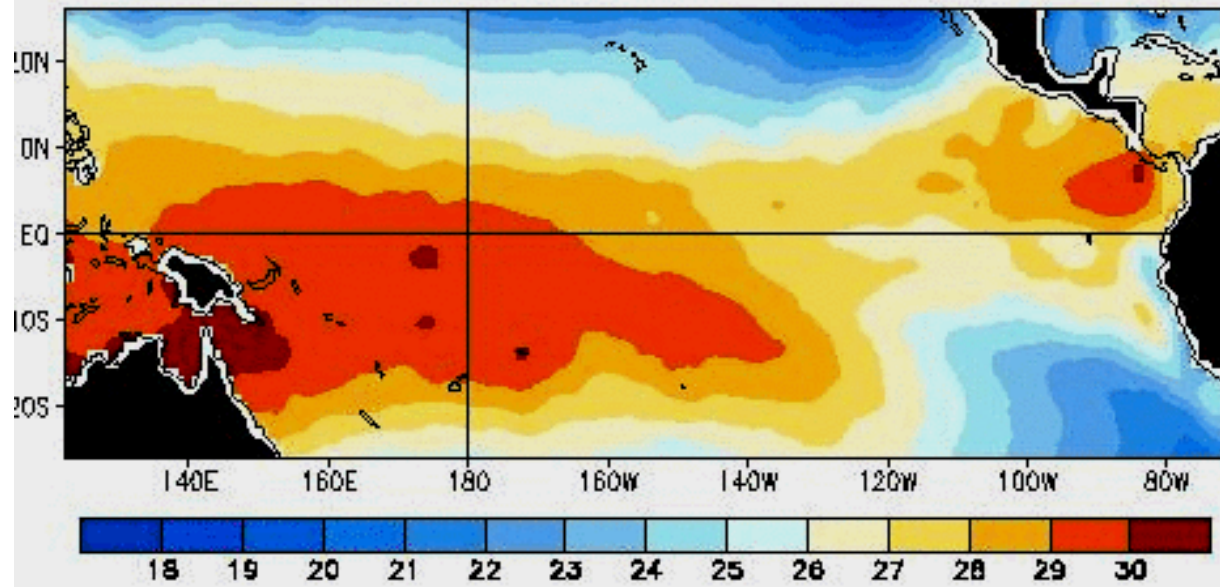
Peru/Ecuador: Strong, warm countercurrent, upwelling stops, fish die.

Australia/Indonesia: Droughts.

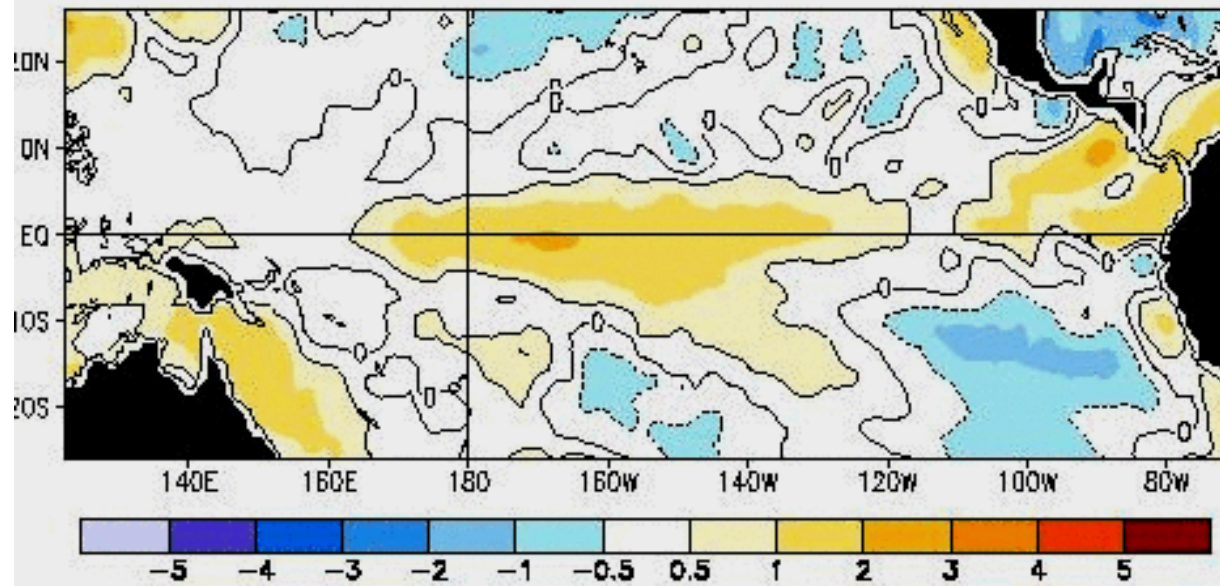
California/Mexico: Flooding.



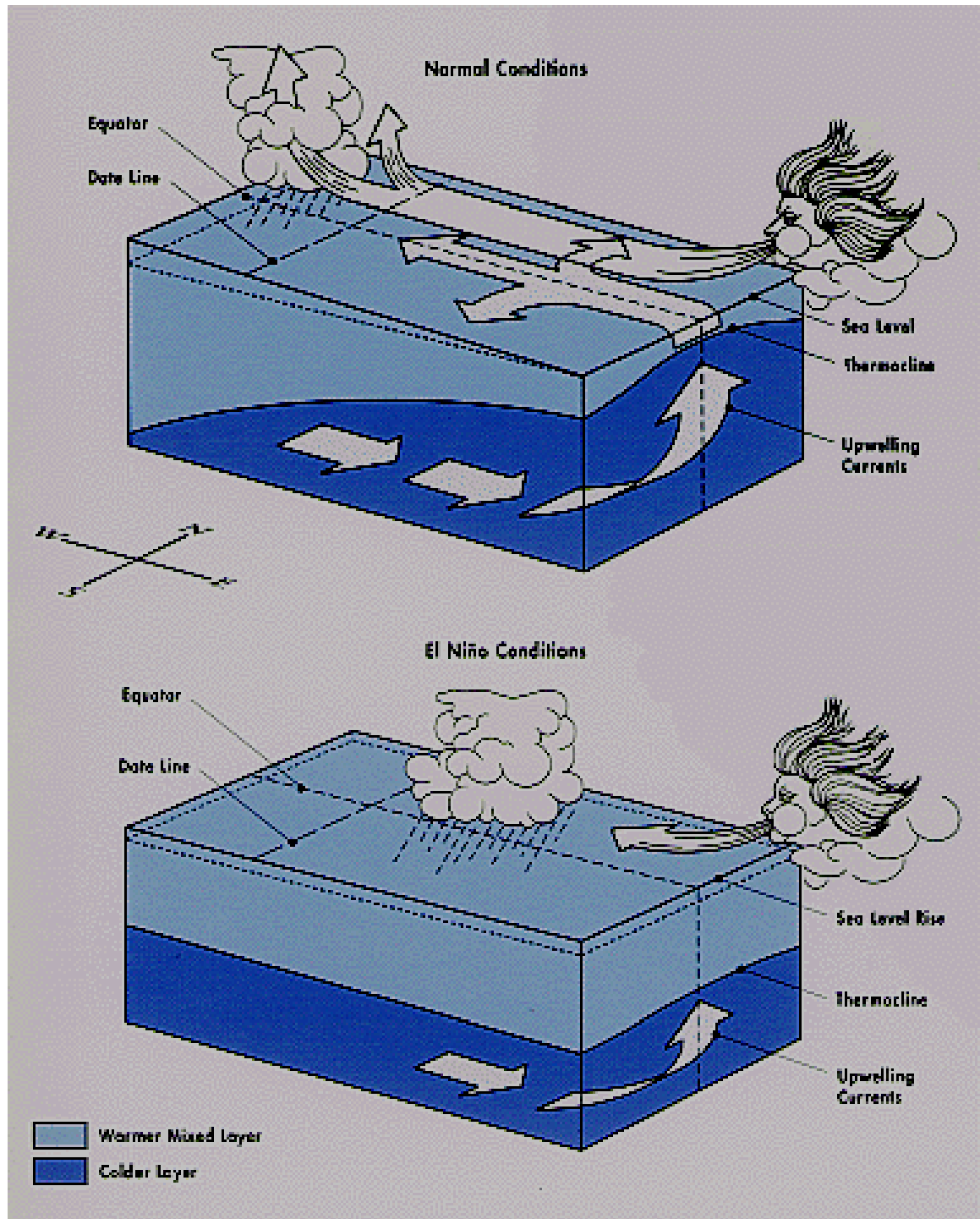
Observed Sea Surface Temperature (°C)



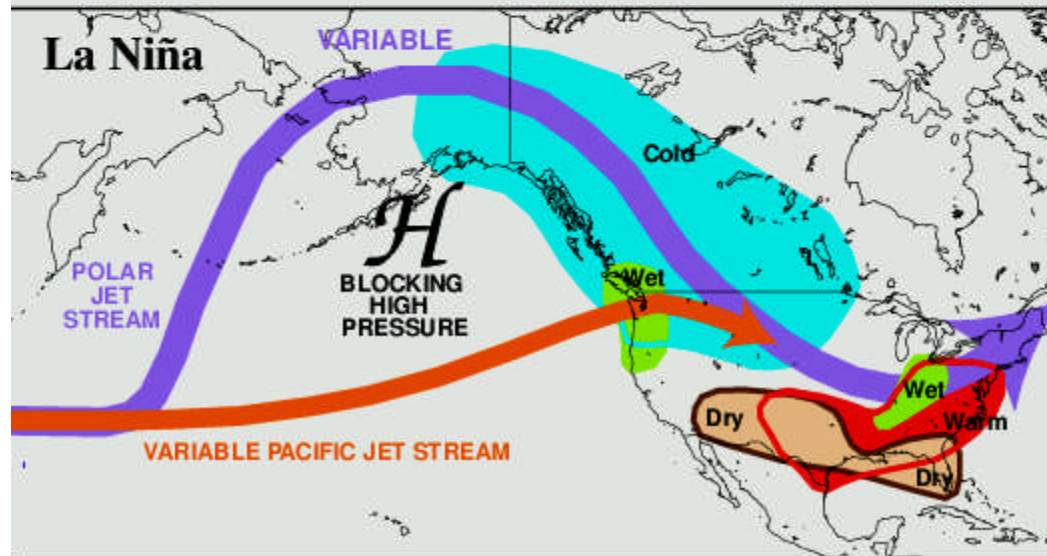
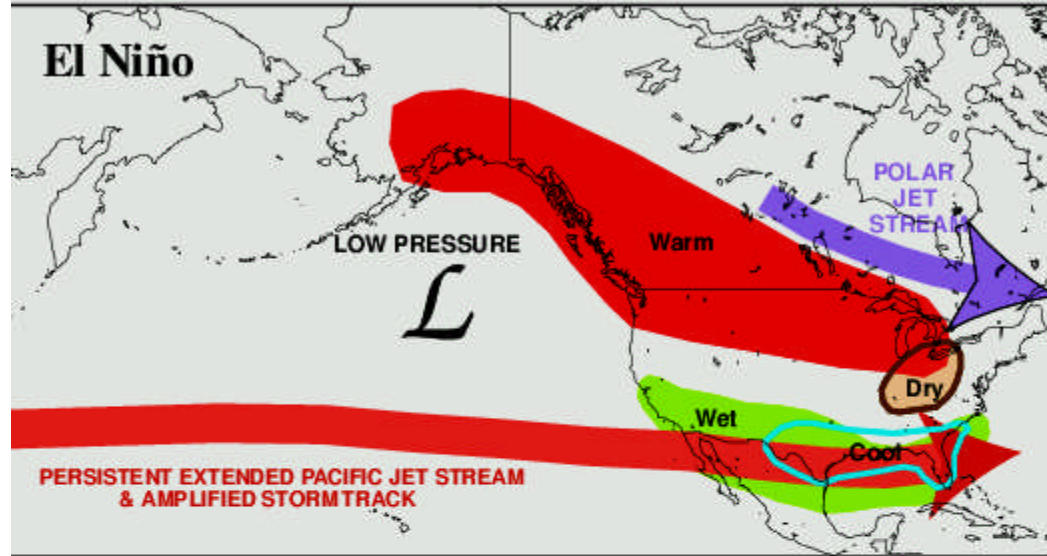
Observed Sea Surface Temperature Anomalies (°C)



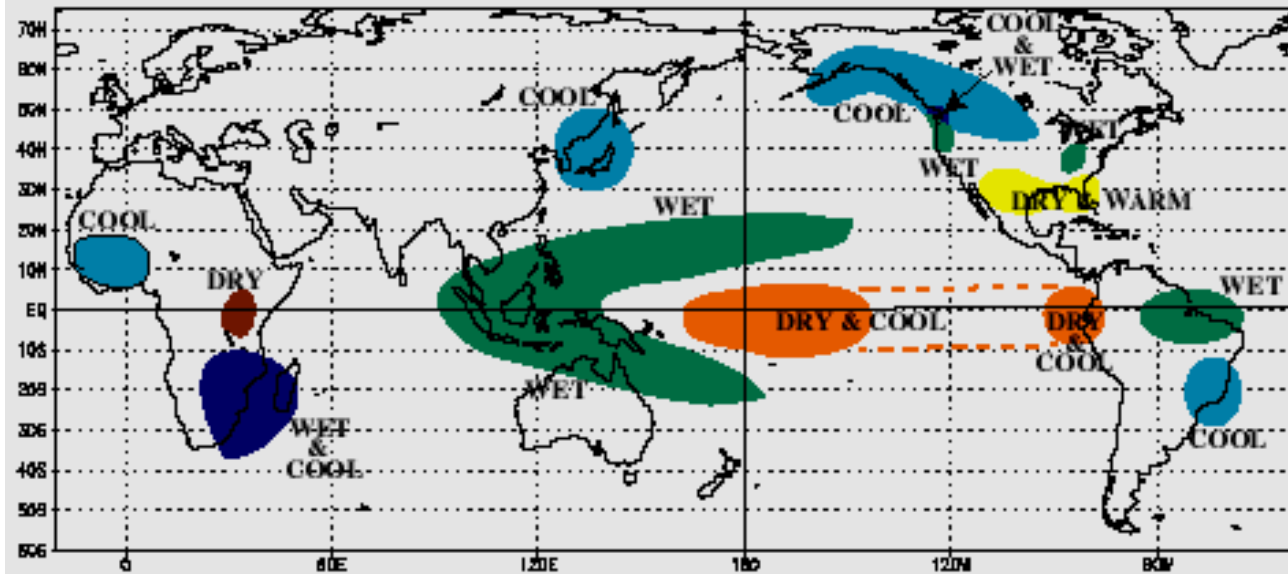
7-day Average Centered on 03 March 2010



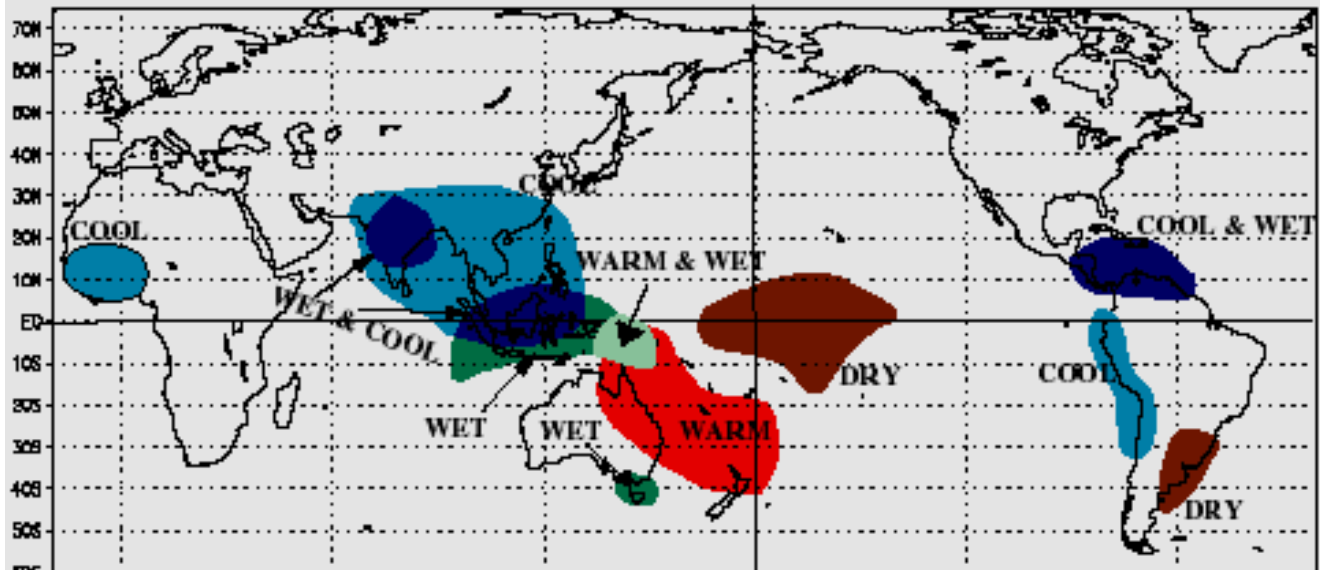
**TYPICAL JANUARY-MARCH WEATHER ANOMALIES
AND ATMOSPHERIC CIRCULATION
DURING MODERATE TO STRONG
EL NIÑO & LA NIÑA**



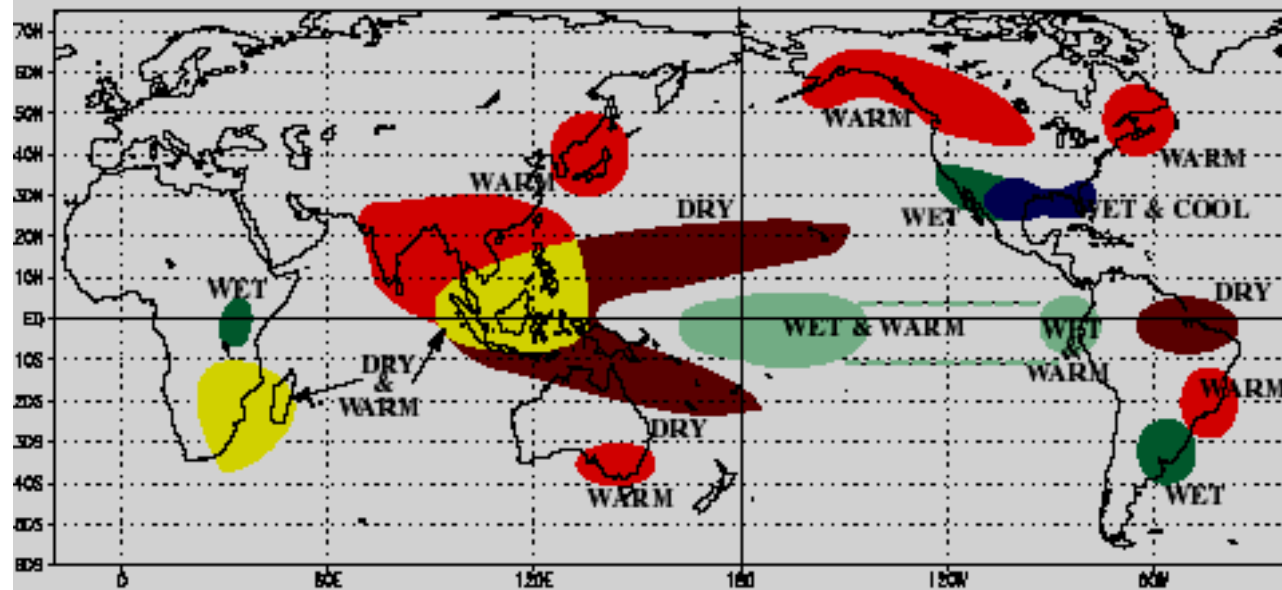
COLD EPISODE RELATIONSHIPS DECEMBER - FEBRUARY



COLD EPISODE RELATIONSHIPS JUNE - AUGUST



WARM EPISODE RELATIONSHIPS DECEMBER - FEBRUARY



WARM EPISODE RELATIONSHIPS JUNE - AUGUST

