

Winds

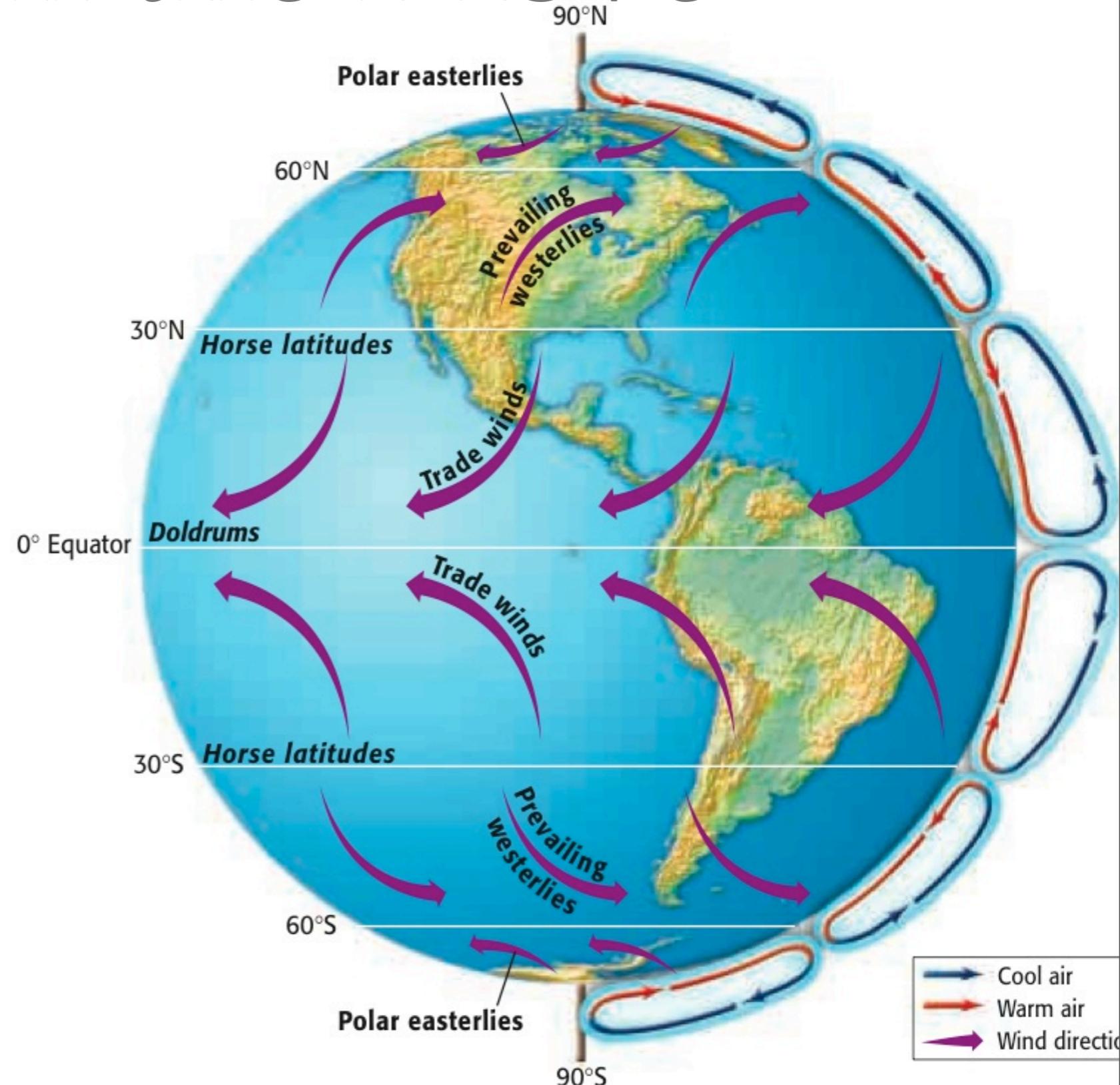
15-4

Air on the Move

- ♦ Wind
 - ♦ movement caused by different air pressure
 - ♦ Warm less dense = low pressure - equator
 - ♦ Cool, more dense = high pressure - poles

Air on the Move

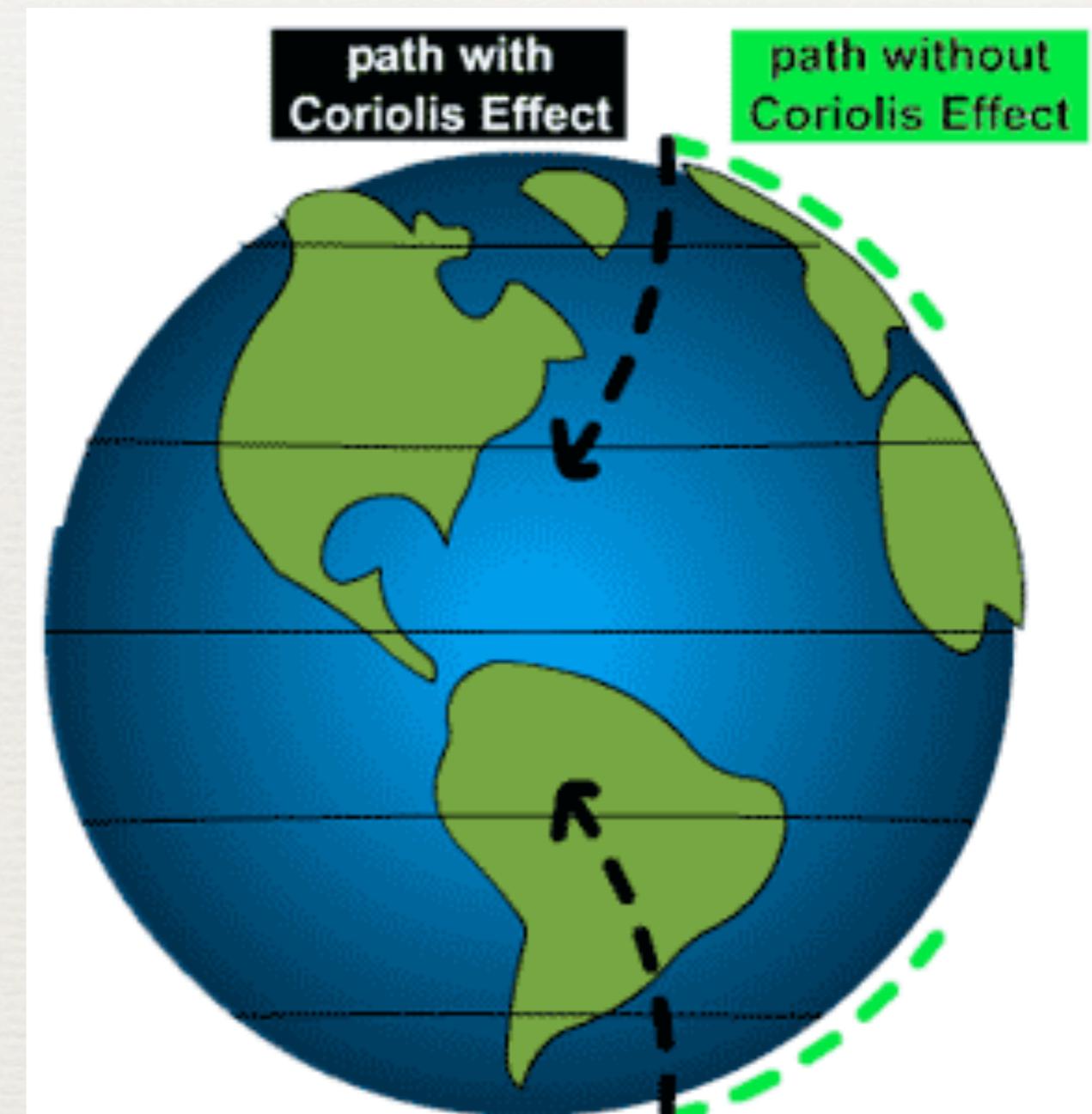
- ♦ Pressure Belts
 - ♦ About every 30° - cool air starts to sink
 - ♦ creates mini convection currents



Air on the Move

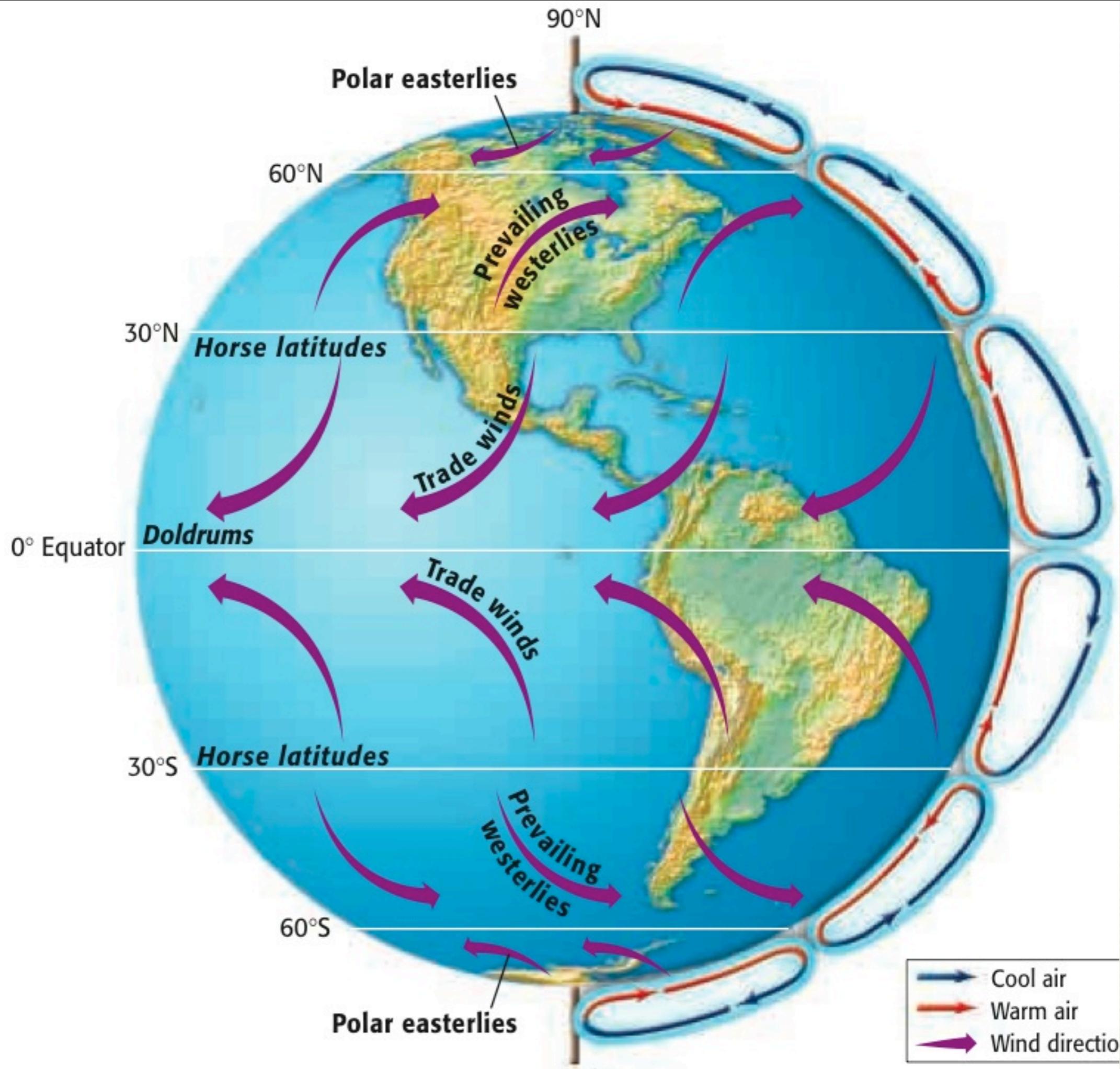
Coriolis Effect

- Curving of air due to Earth's rotation
- Cause wind to not travel straight North and South



Air on the Move

- ♦ Global Winds
 - ♦ Polar Easterlies
 - ♦ 60° - 90° - Blow East - West
 - ♦ Westerlies
 - ♦ 30° - 60° West - East
 - ♦ Trade Winds
 - ♦ 30° - equator - blow towards equator



Air on the Move

- ♦ Local Wind
 - ♦ Day time
 - ♦ land warmer - air rising, water cooler - moves in
 - ♦ wind blows in from water
 - ♦ Night time
 - ♦ Water warmer - land cooler
 - ♦ wind blows out to water

Air on the Move

