

Winds

15-4

Air on the Move

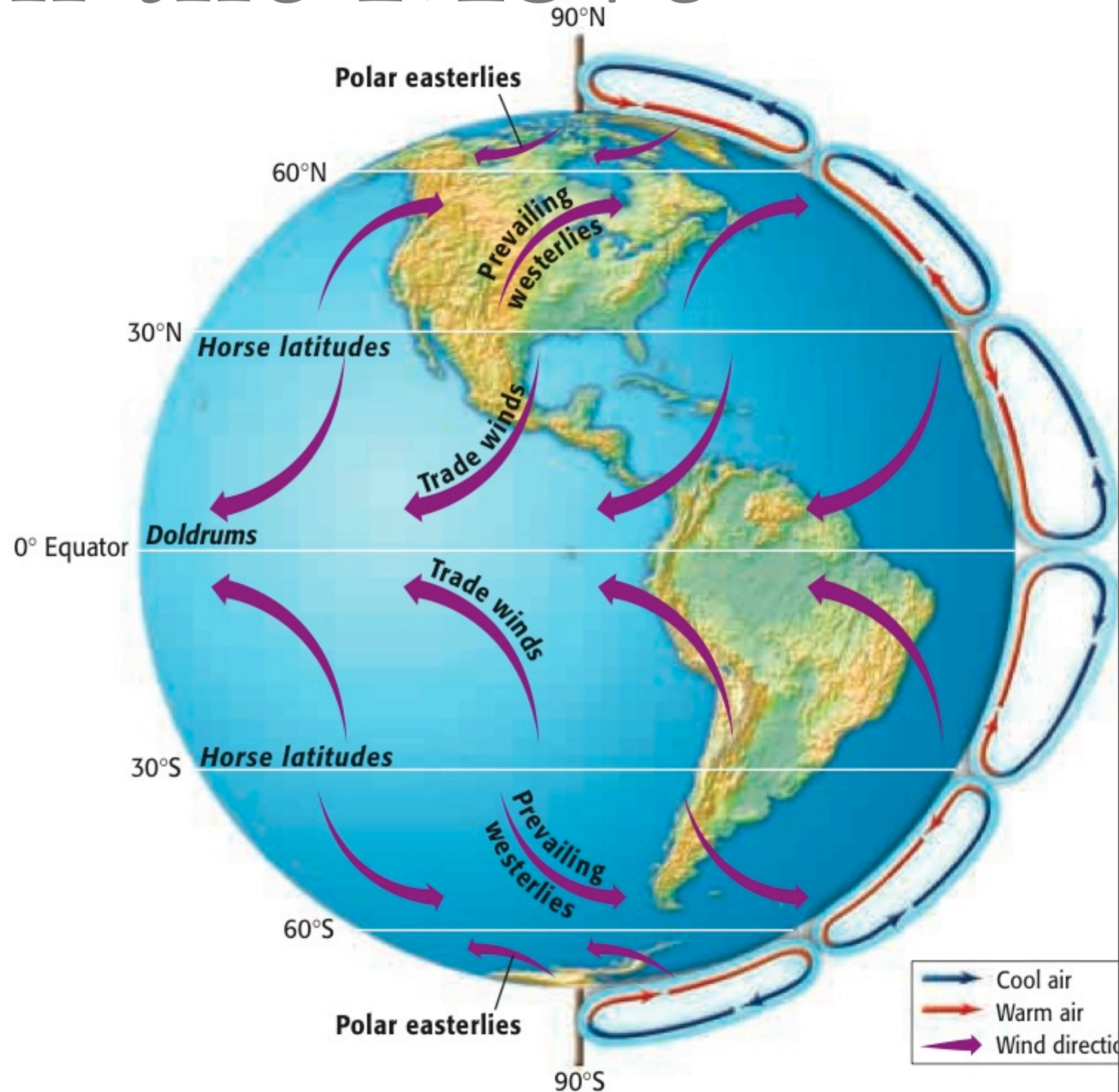
- ♦ Wind
 - ♦ movement caused by different air pressure
 - ♦ Warm less dense = low pressure - equator
 - ♦ Cool, more dense = high pressure - poles

Air on the Move

- ♦ Pressure Belts

- ♦ About every 30° - cool air starts to sink

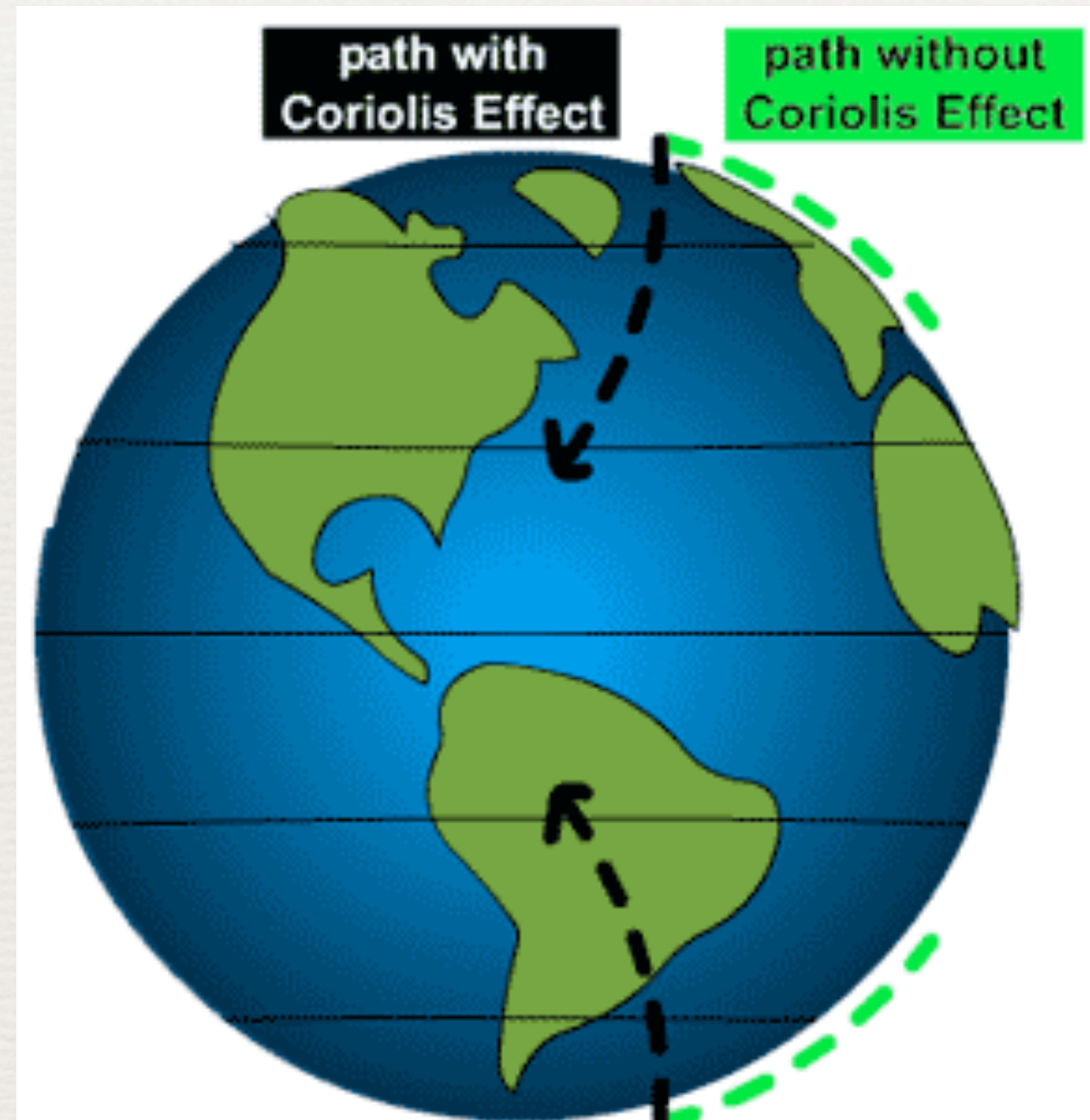
- ♦ creates mini convection currents



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

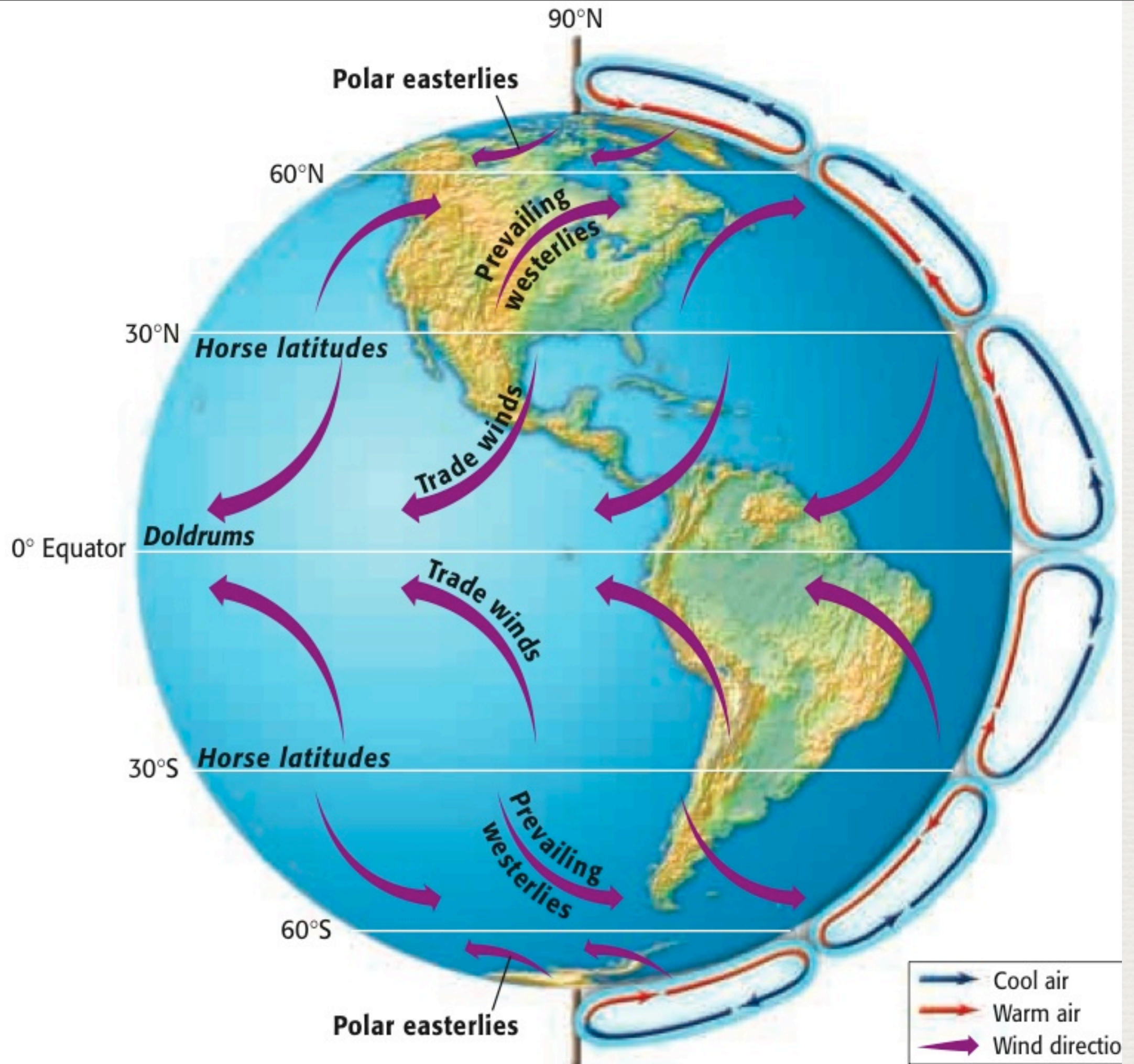
- ♦ 60° - 90° - Blow East - West

- ♦ 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

