

OCEANOGRAPHY STUDY GUIDE

Module 16: Air Circulation Systems

Uneven solar heating—oceanic heat flow

- Equator has more heat and polar regions have less heat
- The atmosphere circulates. As you go higher into the troposphere, the temperature decreases (increases again in the stratosphere)

Physical Properties of the Atmosphere

- Warm air is **less** dense than cold air (heat rises!)
- Moist air is **less** dense than dry air (water vapor is lighter than nitrogen and oxygen)
- Warm area at the equator rises, which creates a low pressure zone and since it's colder at the top of the troposphere, the air gets cold as it moves along
 - o It then creates a high pressure zone when it is packed closer together
- Air moves from high pressure to low pressure

Movements in Air

- Convection cell on different part of the earth where wind always moves from high to low pressure in our idealized model
- **Coriolis effect:** deflection of moving objects over long distances due to the rotation of the earth
 - o Effect is creating over objects that move long distances across latitudes
 - o Maximum at the poles, none at equator
 - o Deflected to the **right** in **northern** hemisphere, to the **left** in **southern**

Global Atmospheric Circulation

- Greater heating over equator: air expands, decreases in density, rises
- Air rises, cools due to temperatures in upper troposphere, and eventually increases in density to sink
- Circulation cells change based **on water vapor content and temperature**
- Different circulation cells:
 - o Hadley (0-30)
 - o Ferrel (30-60)
 - o Polar (60-90)
- High pressure zones: (air moves towards the surface... cold sinks)
 - o Subtropical highs, polar highs, clear skies
- Low pressure zones (air moves away from the surface... heat rises)
 - o Equatorial lows, subpolar lows, overcast skies with precipitation

Oceanography Biology Final Study Guide

CL Gary



Oceanography Biology Final Study Guide:

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