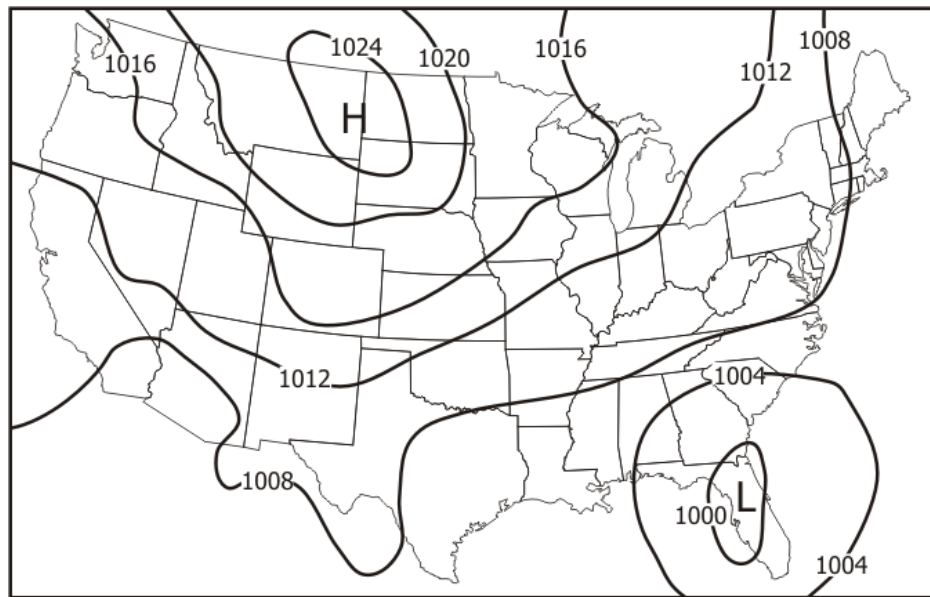
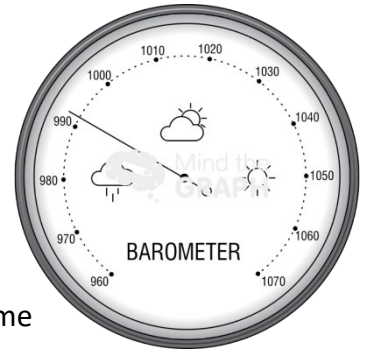


CH 19 NOTES

name _____ hr _____

19.1 UNDERSTANDING AIR PRESSURE

- A) _____ – the pushing of air in _____ directions, up, down, and sideways
- 1) _____ - tool used to measure air pressure that is pressing downward
 - 2) _____ - the unit used to label pressure measurements
 - 3) _____ - lines drawn on a weather map that indicate the same pressure

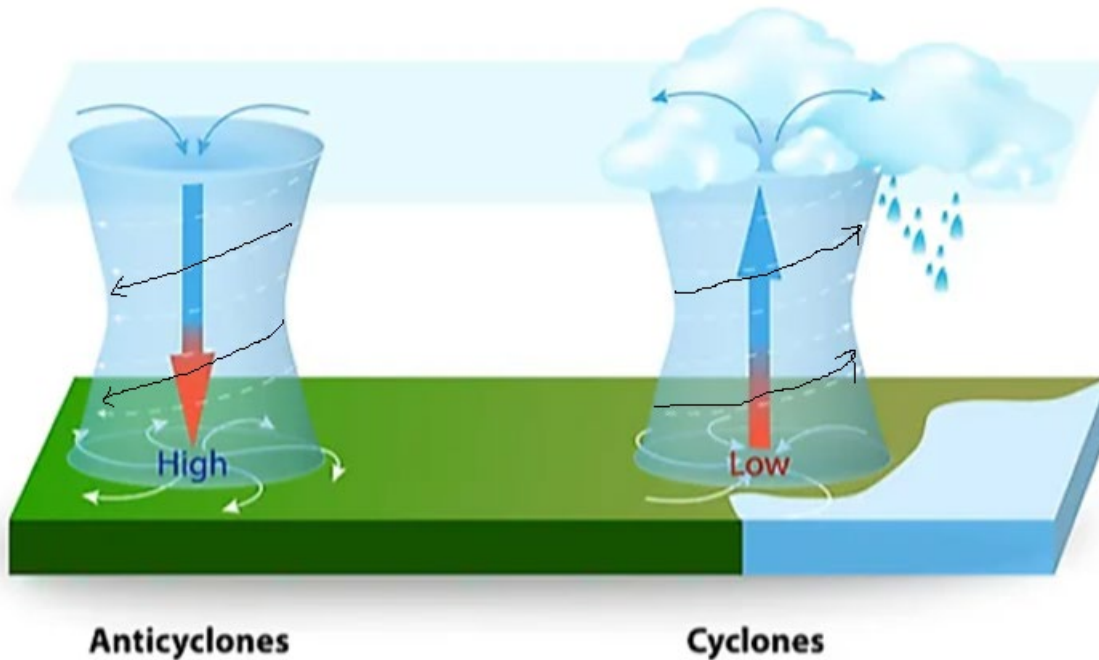


- B) _____ - air that is moving _____
- 1) Air flows from _____ pressure to _____ pressure
 - 2) The _____ heating of Earth's surface creates _____ differences
 - 3) Air is always trying to _____ out the pressure
 - 4) When _____ are close together on a map, wind speed is _____
- C) _____ - fast moving river of air at the top of the _____

19.2 PRESSURE CENTERS AND WINDS

- D) _____ - _____ spin of air
- 1) _____ pressure
 - 2) air is _____
 - 3) causes _____, thus condensation, thus clouds and _____
 - 4) air _____ at base

- E) _____ - _____ spin of air
- 1) _____ pressure
 - 2) air is _____
 - 3) causes heating, thus _____, thus the _____ of clouds, thus _____ weather
 - 4) air _____ at base

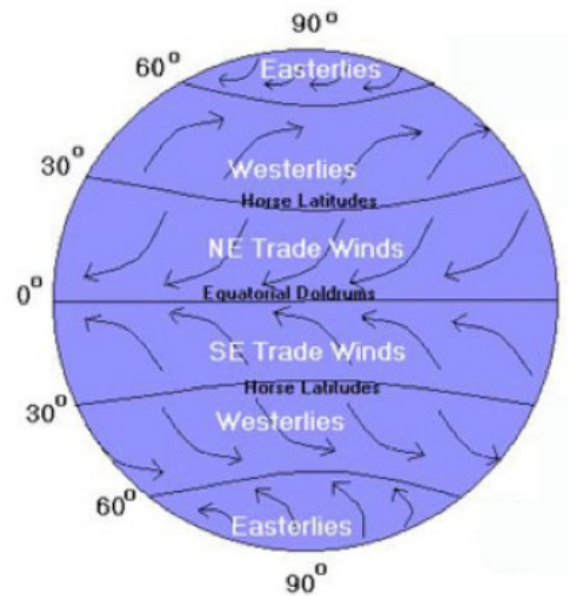


F) GLOBAL WINDS

- 1) Non-rotating model:
 - a) if the earth didn't _____, cold air from the poles would _____ down and move toward the equator, forcing warm equator air to _____. It would then hit the top of the troposphere and start _____ towards the _____.

- 2) Rotating model:
 - a) But, we _____, so those currents of air get _____ to the west and east in predictable patterns

- (1) _____ - come from the _____ and blow toward the west-- Located between _____ and _____ degrees
- (2) _____ - come from the west and blow toward the _____--Located between _____ and _____ degrees
- (3) _____ - come from the east--Located between _____ and _____ (the poles)



- 3) _____ - the Earth's spin _____ and _____ air movements that would normally just go _____ and _____

G) Convection cells

1) _____ cell

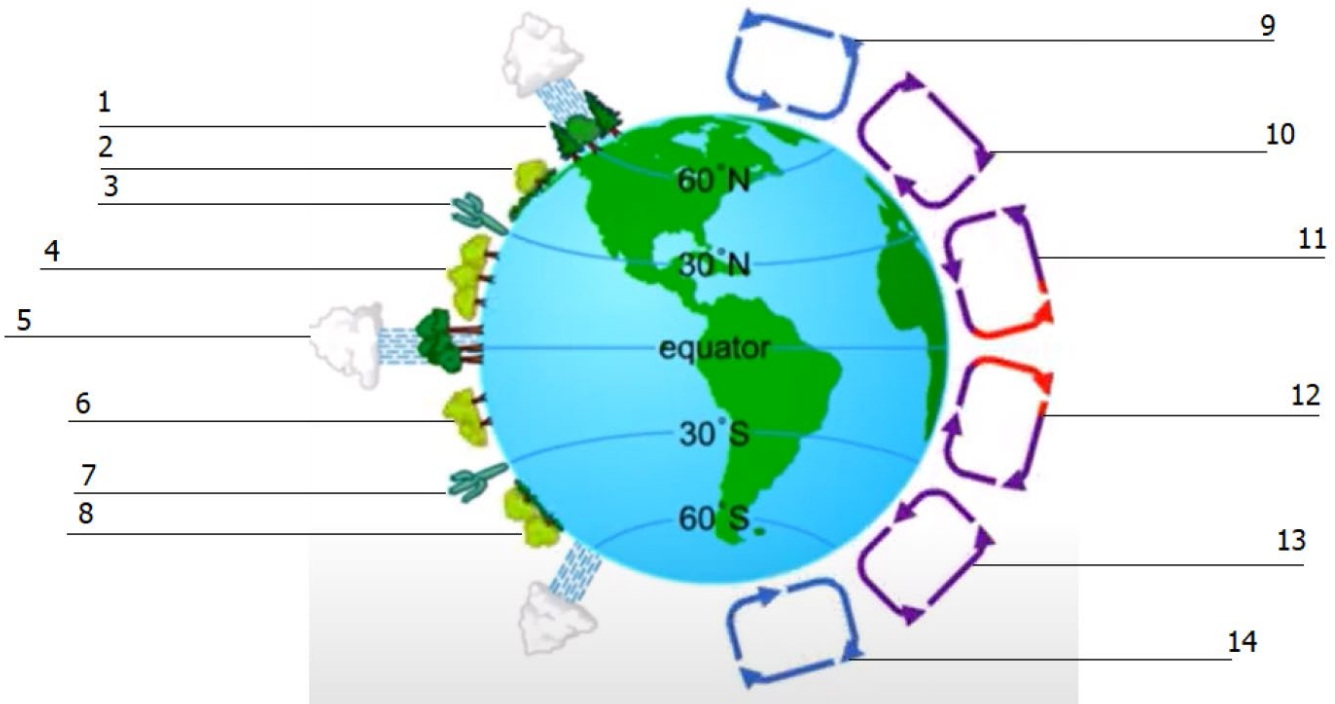
- a) Hot air _____ at _____ then
- b) _____ and _____ at 30
- c) Moves _____ at the surface of Earth (wind)
- d) Some goes _____ and
- e) Some hits the _____ (and heats up again)

2) _____ cell

- a) The air squirting north from the Hadley cell _____ with
- b) Air squirting _____ from the polar cell
- c) They hit and then squirt _____ (convergence)
- d) Once aloft the air _____, some headed back to the _____ and some going back to the _____ of the Ferrel cell

3) _____ cell

- a) Air is _____, sinking and headed toward the _____
- b) _____ with Ferrel cell air and
- c) Squirts _____ eventually
- d) Returning to the _____ to get chilled again



H) BIOMES

- 1) Latitudes with _____ air bring a lot of _____
- 2) Latitudes with _____ air bring _____ precipitation
- 3) Rising air at 0 degrees – lots of rain, thus _____
- 4) Rising air at 60 degrees – lots of rain, thus _____/ evergreen _____
- 5) Sinking at at 30 degrees – no rain, thus _____
- 6) All areas in between these latitudes= _____ forests or _____