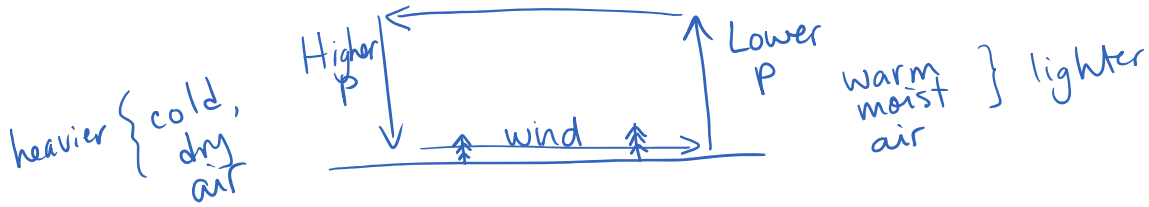


# Wind

- blows from H pressure to L pressure



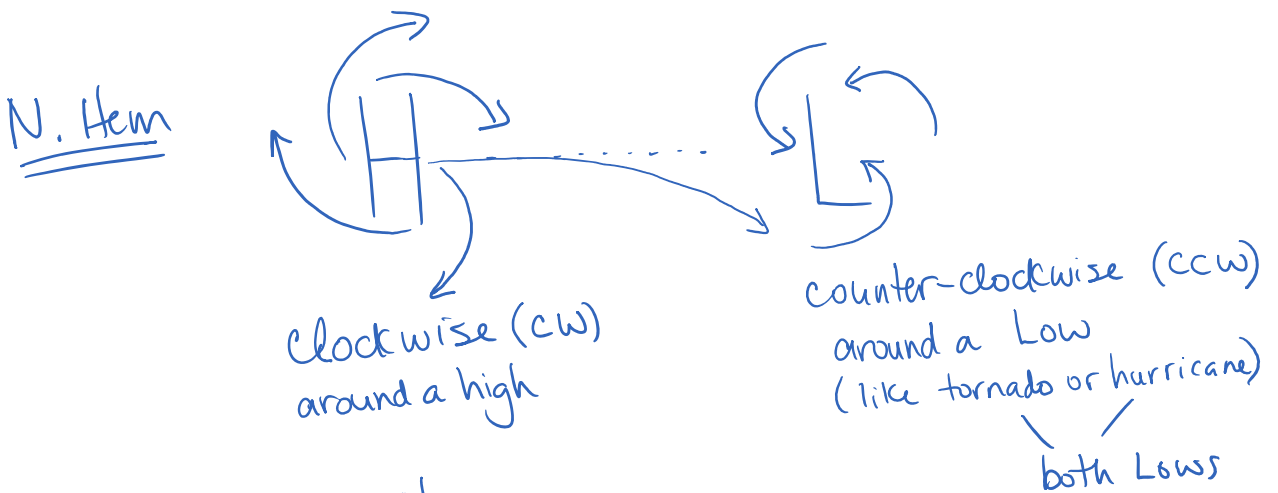
- normally wind blows straight from the centre of a Hig to the centre of a low....

But

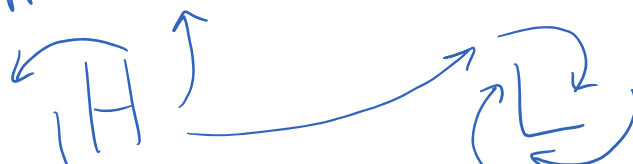
the Coriolis Effect causes wind to change direction...

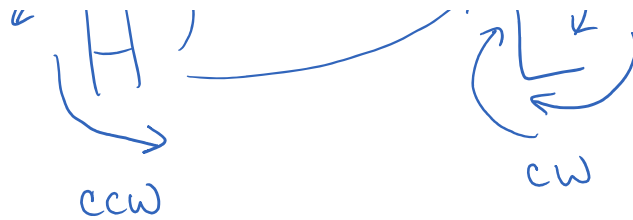
- Coriolis Effect

- caused by  $\oplus$ 's rotation on axis
- causes winds to veer to the right in the Northern hemisphere



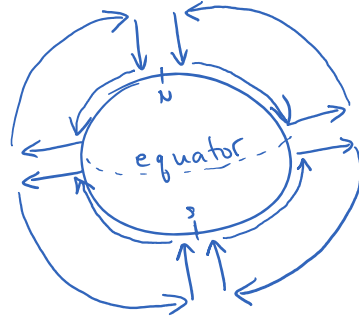
S. Hem - opposite





## Simplified World Wind Belts

- if no rotation, and no land to interfere
- really much more complicated



## Air Masses

- a large body of air with generally uniform temperature and humidity
- types of air masses - based on where formed -

P - Polar - cold  
 T - Tropical - warm  
 c - Continental - dry  
 m - maritime - humid

mP = cold, humid air

cT = dry, warm air

- Air masses can control the weather for a relatively long time (days to months)
- most weather changes occur along the edges of these air masses at boundaries called "Fronts"


# Fronts

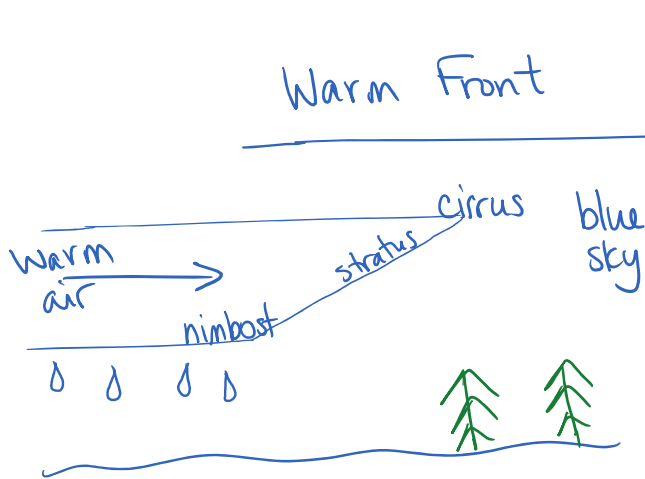
- boundaries btwn air masses
- named for the temperature of the air mass they are leading.
- weather map symbols

 cold front (moving down page)

 warm front ( " " " )

 stationary front (not moving)  
(collision of cold and warm fronts)

 occluded front (moving up page)  
cold front runs over a warm front



- gentle slope
- gradual rising of the air along the front
- layered clouds (stratus)
- precipitation
- slower moving

## Cold Front



- steeper slope
- pushes air up as cold air goes under
- abrupt air rise
- showery, thunderstorms
- move faster.