

Atmospheric stability

- Air parcel

Lapse rates

- Normal lapse rate

- Environmental lapse rate

Air parcel rates

- Dry lapse rate (DAR)

- Moist rate (MAR)

Atmospheric stability

- Stable air

Vs.

- Unstable

- Stable air
- $ELR < DAR$ and MAR

- Unstable air
- $ELR > DAR$ and MAR

Clouds

- Cont.
- Oceans

Cloud types

- Low clouds
- 1) stratus
- 2) nimbostratus
- 3) cumulus
- 4) cumulonimbus
- Updrafts and downdrafts

Air masses

- Large, horizontal, homogenous body of air
- Moisture
- temp

- cP
- mP
- cT
- mT

- cA

- Where's high pressure?
- Cyclone or anticyclone?
- movement

Mechanisms of lifting

- Convection

- Orographic

- Windward
- leeward

- Frontal(cyclonic)
fronts

- Warm

- Cold

- Stationary

- occluded