

Doldrums

At the equator, surface winds are calm and weak.

Why would these winds be calm and weak?
When would this cause a problem?

Trade Winds

- 30 degrees N & S of Equator
- Calm winds, few clouds, little rain fall
- Warm air rising from Equator cools and sinks
- Also known as Horse Latitudes

Prevailing Westerlies

- Strong winds
- Located in the belt from 30-60 degrees latitude in both hemispheres.
- Has an impact on the US weather

Polar Easterlies

- Cold, but weak winds
- Near the north and south poles
- US weather is influenced by these
- Cooling takes place between the 50-60 degree latitude as it approaches the poles

Jet Stream

- Discovered in 1940's
- Can be found in the upper troposphere
- Strong high speed and high pressure
- Moves west to east across the US, moving storms




Local Winds

- Cover short distances
- Blow from any direction
- **2 Types of Local Winds**
 - Sea Breezes- from sea to land
 - Land Breezes – from land to sea



Sea Breeze Illustration



Land Breeze Illustration