Global Winds

- Now, in this theory each hemisphere would have one wind blowing to the west
- In fact, each hemisphere has 3 wind bands

Three Cell Model

- All the large scale winds are in geostrophic balance

Westerlies

- **Winds**: Trades, Westerlies, Polar Easterlies
- **Convergences**: ITCZ, Polar Front
- **Divergences**: Horse Latitudes (Subtropical High), Polar High
Subtropical Anticyclones

ITCZ

Subtropical Gyres

Western Boundary Currents
Gulf Stream Map

North Atlantic Basin

Surface Convergence

North Atlantic Basin

Convergence / High Pressure

Subtropical Gyres

- Geostrophic
- Anticyclonic
- Centered at 30°N, 30°S