Earth's Climate Energy Source
Earth's Energy Budget

Incoming solar energy 100%

- Reflected by atmosphere 6%
- Reflected by clouds 20%
- Reflected from earth's surface 4%

Radiated to space from clouds and atmosphere

- Absorbed by atmosphere 16%
- Absorbed by clouds 3%
- Conduction and rising air 7%

Radiated directly to space from earth

- Radiation absorbed by atmosphere 15%

Carried to clouds and atmosphere by latent heat in water vapor 23%

Absorbed by land and oceans 51%
Subtropical Gyres and Associated Ocean Currents

- Warm current
- Cold current