

# Influences On Climate

*By: Dréquan Taylor & Mat Walker*

# Relevant Experiments

## Greenhouse Gases & Experiments



# Global warming: Causes and effects

Earth's temperature has risen about 1 degree Fahrenheit in the last century. The past 50 years of warming has been attributed to human activity.

Burning fuels such as coal, natural gas and oil produces greenhouse gases in excessive amounts.

Greenhouse gases are emissions that rise into the atmosphere and trap the sun's energy, keeping heat from escaping.

The United States was responsible for 20 percent of the global greenhouse gases emitted in 1997.

Most of the world's emissions are attributed to the United States' large-scale use of fuels in vehicles and factories.

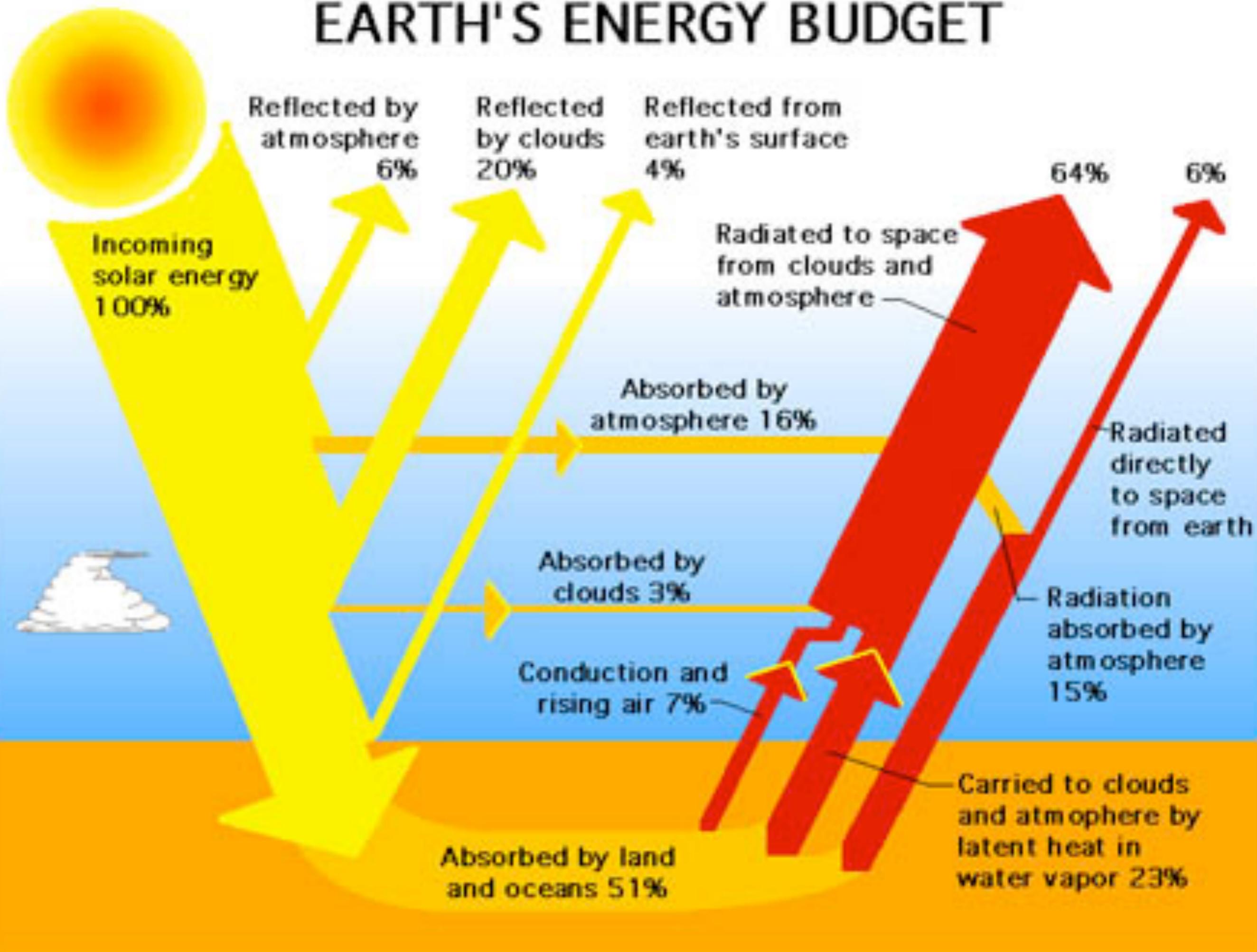
During the past 100 years global sea levels have risen 4 to 8 inches.

Some predictions for local changes include increasingly hot summers and intense thunderstorms.



Damaging storms, droughts and related weather phenomena cause an increase in economic and health problems. Warmer weather provides breeding grounds for insects such as malaria-carrying mosquitoes.

# EARTH'S ENERGY BUDGET



# Influences On Climate

◆ This explains everything you'll need to know to about influences of Climate. [http://www.climateandweather.net/global\\_warming/](http://www.climateandweather.net/global_warming/)

# Example Question

- ◆ How does the greenhouse effect influence the amount of incoming solar radiation?
  - ◆ \*The amount of incoming solar radiation is unchanged.
  - ◆ The amount of incoming solar radiation increases.
  - ◆ The amount of incoming solar radiation decreases.
  - ◆ There is no incoming solar radiation.

# Explanation to Answer

- ◆ The amount of incoming solar radiation depends on the output of the Sun. The output of the Sun is almost constant, and no changes to Earth's atmosphere influence the amount of incoming solar radiation. The greenhouse effect influences climate by altering how much of the incoming solar radiation remains in the Earth's atmosphere.