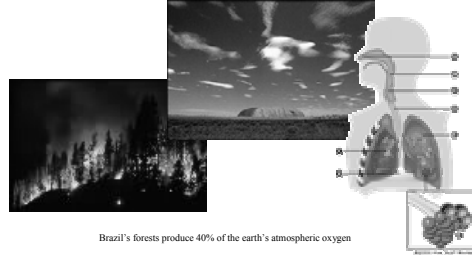


Biogeochemical Cycles:

Oxygen
Carbon
Sulfur
Nitrogen
Phosphorous
Calcium

Oxygen Cycle



Brazil's forests produce 40% of the earth's atmospheric oxygen

Oxygen Cycle

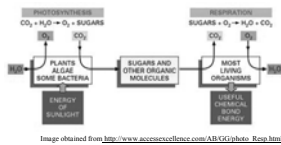
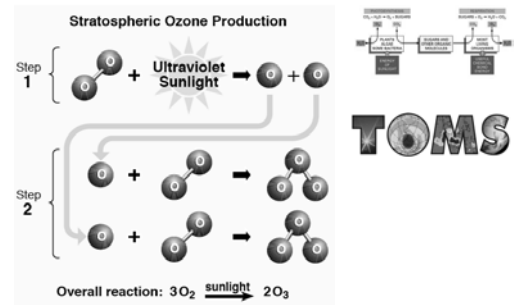
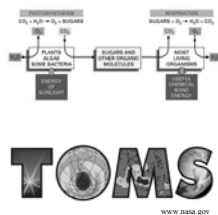
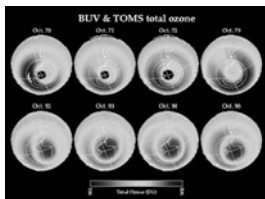


Image obtained from http://www.agriculture.com/ARGG/brn_Rain.html

Oxygen Cycle



Oxygen Cycle



www.nasa.gov

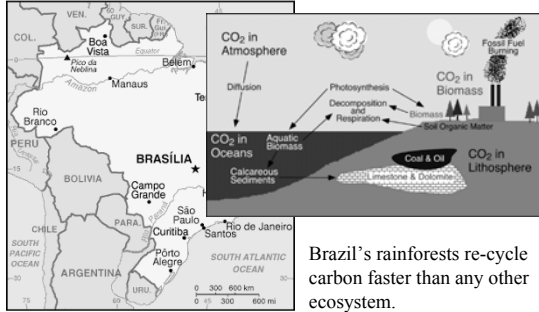
Depletion of ozone leads to ecosystem health risks

Carbon Cycle



Temperate rainforests store vast amounts of carbon, both above and below ground.

Carbon Cycle



Brazil's rainforests re-cycle carbon faster than any other ecosystem.

Carbon Cycle

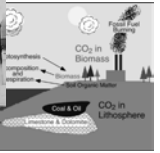


Carbon sink

VTS



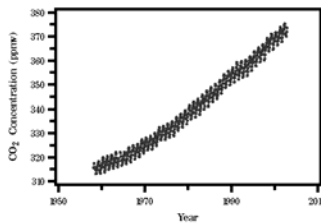
Carbon sink



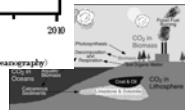
Today, the earth's atmosphere is accumulating CO₂ faster that it can be sequestered.

Carbon Cycle

Mauna Loa, Hawaii



Source: Dave Keeling and Tim Whorf (Scripps Institution of Oceanography)

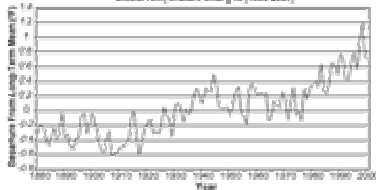


Carbon Sinks:

1. Marine viruses and phytoplankton
2. Forests
3. Coral reefs

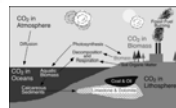
Carbon Cycle

Global Temperature Changes (1880-2000)



Source: U.S. National Climatic Data Center, 2001

The earth's "core" temperature is rising



Nature Is "Re-shuffling" The Deck As The Environment Changes

