GLOBE Earth System Poster
Exploring connections in year 2007

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Insolation | Surface Temperature | Cloud Fraction | Precipitation | Aerosols | Biosphere

January

March

May

July

September

November

Credit and contact information:
- Cloud fraction is measured using MODIS aboard NASA's Terra and Aqua satellites. Cloud fraction is the portion of Earth's surface covered by cloud relative to the portion of Earth not covered by cloud.
- Total Rainfall is derived from TRMM, providing radar and microwave radiometric data that measure the vertical distribution of precipitation over the tropics in a latitudinal band between 35 degrees north and south.
- Aerosols
- Biosphere

NASA's Terra and Aqua satellites.

MODIS: Moderate Resolution Imaging Spectroradiometer provides higher spatial resolution, but cannot measure through clouds.

AMSR-E: Advanced Microwave Radiometer for EOS provides microwave ability to see through cloud cover and combines data from AMSR-E, MODIS, and TMI.

RemSS: Remote Sensing Systems

TRMM: Tropical Rainfall Monitoring Mission

Images by R. Stockli, NEO Team, using data provided by the MODIS Atmosphere Science Team.

MODIS: Moderate Resolution Imaging Spectroradiometer

Surface Temperature is a combination of Land Surface Temperature (LST) and Sea Surface Temperature (SST) compiled from various instruments.

Surface Temperature: January 2007

Surface Temperature: February 2007

Surface Temperature: March 2007

Surface Temperature: April 2007

Surface Temperature: May 2007

Surface Temperature: June 2007

Surface Temperature: July 2007

Surface Temperature: August 2007

Surface Temperature: September 2007

Surface Temperature: October 2007

Surface Temperature: November 2007

Surface Temperature: December 2007