

NOAA WATER VAPOR CHART (2010) A GREENHOUSE GAS

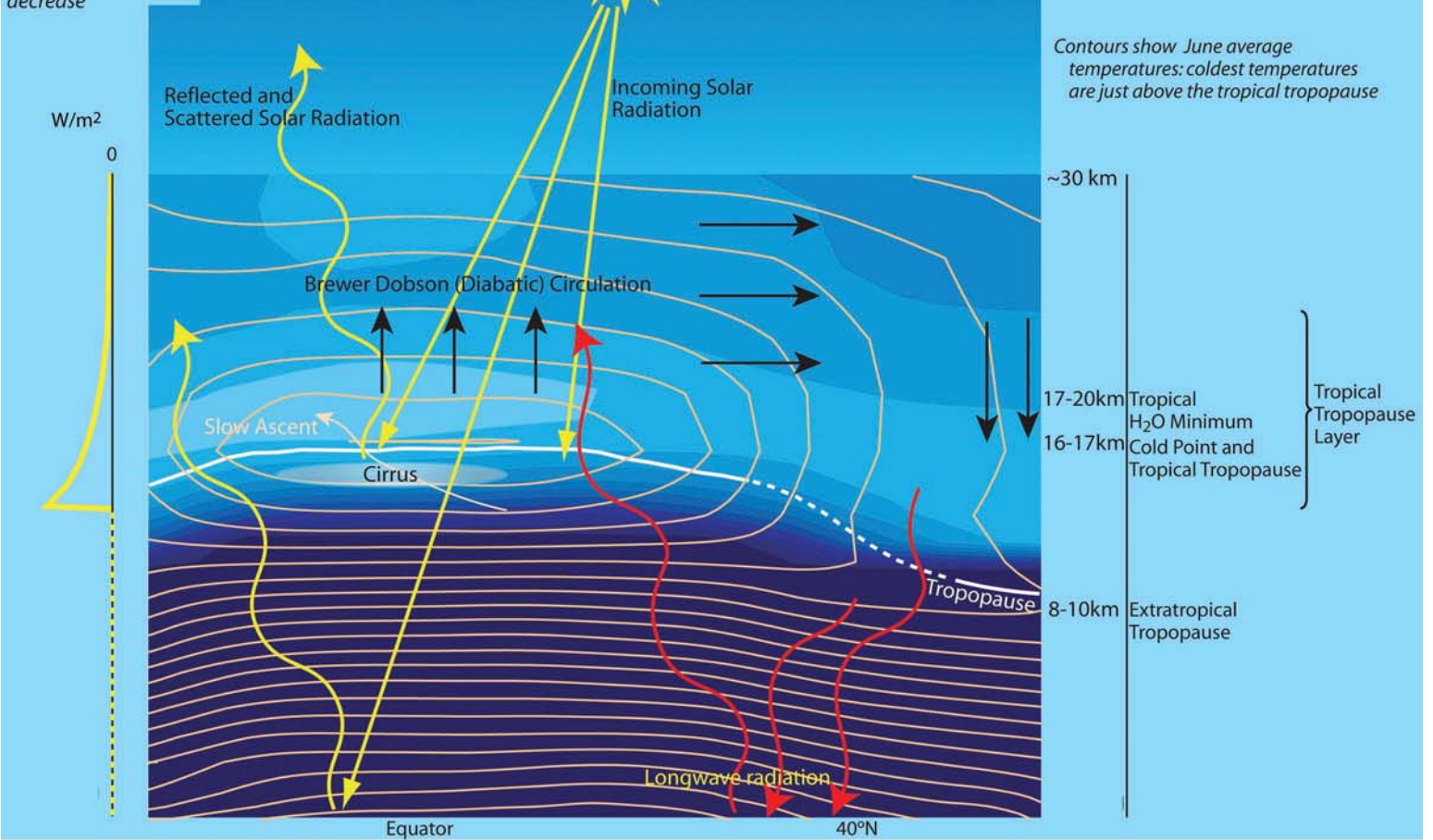
January 28, 2010 NOAA Website: <http://www.noaa.gov/stories2010/images/cartoon.jpg> & http://www.noaa.gov/stories2010/20100128_watervapor.html

Radiative forcing of surface climate per 1 km thick layers at 35°N for observed stratospheric H₂O decrease

Water Vapor & Radiative Processes

Shading indicates June average H₂O mixing ratio: Minimum values are shown in light blue

Contours show June average temperatures: coldest temperatures are just above the tropical tropopause



Note: NASA research studies show that increasingly persistent jet contrails may turn into man-made clouds (or white haze), that are "...trapping warmth in the atmosphere and exacerbating global warming..." (2005 Newsletter related to NASA Studies). NASA goes on to state that "...Any change in global cloud cover may contribute to long-term changes in the Earth's climate. Contrails, especially persistent contrails, represent a human-caused increase in the Earth's cloudiness, and are likely to be affecting climate and ultimately our natural resources..."

<http://earthobservatory.nasa.gov/IOTD/view.php?id=4435>

"...NASA scientists have found that cirrus clouds, formed by contrails from aircraft engine exhaust, are capable of increasing average surface temperatures enough to account for a warming trend in the United States that occurred between 1975 and 1994. According to Patrick Minnis, a senior research scientist at NASA's Langley Research Center in Hampton, Va., there has been a one percent per decade increase in cirrus cloud cover over the United States, likely due to air traffic. Cirrus clouds exert a warming influence on the surface by allowing most of the Sun's rays to pass through but then trapping some of the resulting heat emitted by the surface and lower atmosphere. Using a general circulation model, Minnis estimates that cirrus clouds from contrails increased the temperatures of the lower atmosphere by anywhere from 0.36 to 0.54°F per decade. Minnis's results show good agreement with weather service data, which reveal that the temperature of the surface and lower atmosphere rose by almost 0.5°F per decade between 1975 and 1994..." (April 28, 2004 NASA)

(NOAA graph above on water vapor, a greenhouse gas, fails to note the significance of many NASA Studies.)