



**Earth System  
Science Center**

The University of  
Alabama in Huntsville

---

May 10, 2007

Vol. 16, No. 12

**For Additional Information:**

Dr. John Christy, UAH, (256) 961-7763  
christy@nsstc.uah.edu

Dr. Roy Spencer, UAH, (256) 961-7960  
roy.spencer@nsstc.uah.edu

## Global Temperature Report: April 2007

*Fig. 1:* Global variation from seasonal norms, in Celsius; Trend since Nov. 16, 1978: +0.15 C per decade

Global composite temp.: +0.23 C (about 0.41° Fahrenheit) above 20-year average for April.

Northern Hemisphere: +0.35 C (about 0.63° Fahrenheit) above 20-year average for April.

Southern Hemisphere: +0.12 C (about 0.22° Fahrenheit) above 20-year average for April.

March temperatures (revised): Global Composite: +0.38 C above 20-year average

Northern Hemisphere: +0.58 C above 20-year average

Southern Hemisphere: +0.17 C above 20-year average

(All temperature variations are based on a 20-year average (1979-1998) for the month reported.)

*Notes on data released May 10, 2007:*

Atmospheric temperatures in the tropics fell to seasonal normal temperatures in April, signaling the end of the weak El Niño Pacific Ocean warming event of 2006-2007, according to data released today by Dr. John Christy, director of the Earth System Science Center at The University of Alabama in Huntsville (UAH). Color maps of local temperature anomalies may

## Global Temperature Report: April 2007, page 2

soon be available on-line at:

<http://climate.uah.edu/>

The processed temperature data is available on-line at:

[vortex.nsstc.uah.edu/data/msu/t2lt/tltglhmmam\\_5.2](http://vortex.nsstc.uah.edu/data/msu/t2lt/tltglhmmam_5.2)

As part of an ongoing joint project between The University of Alabama in Huntsville (UAH) and NOAA, Christy and Dr. Roy Spencer, a principal research scientist in the ESSC, use data gathered by microwave sounding units on NOAA satellites to get accurate temperature readings for almost all regions of the Earth.

This includes remote desert, ocean and rain forest areas for which reliable climate data are not

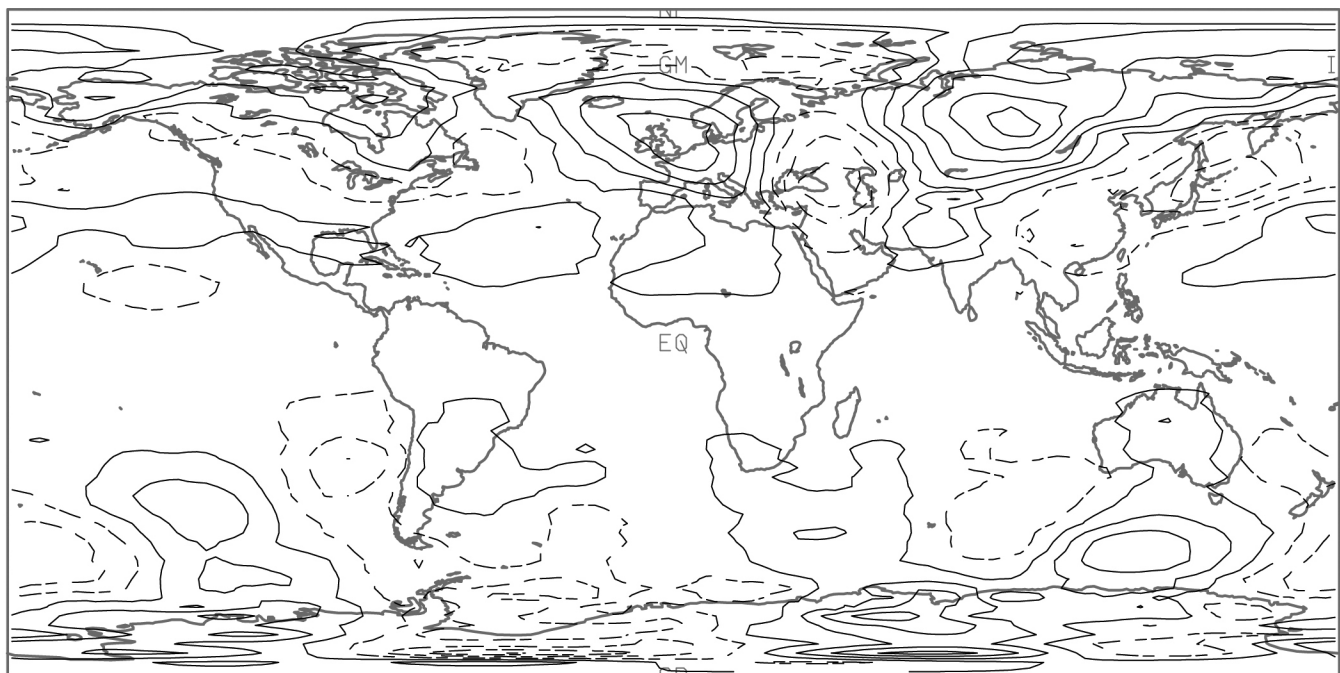
otherwise available. The satellite-based instruments measure the temperature of the atmosphere from the surface up to an altitude of about eight kilometers above sea level.

Once the monthly temperature data is collected and processed, it is placed in a “public” computer file for immediate access by atmospheric scientists in the U.S. and abroad.

*Neither Spencer nor Christy receives any research support or funding from oil, coal or industrial companies or organizations, or from any private or special interest groups. All of their climate research funding comes from state and federal grants or contracts.*

— 30 —

APR 2007  
LAYER = LT LOWER TROPOSPHERE



ZERO CONTOUR OFF  
CONTOUR FROM -10.500 TO 10.500 CONTOUR INTERVAL OF 1.0000 PT(3,3)= 1.9900

Broken lines outline areas cooler than seasonal norms; solid lines outline areas warmer than seasonal norms. Each contour represents one degree Celsius, starting at -0.5 and +0.5 degrees C.