

1. Old History

3. 70's: Global cooling -- Ice Age Coming

4. Wikipedia on climate

5. 2000's : Climate Change

6. USA government on climate

7. Other countries on climate

8. Math Reviews on climate

9. News 2007-2009

10. 2010

11. 2011

12. 2012

13. 2013

14. 2014

15. 2015

[back to the main climate page](#)

2. Plots

Plots and graphs from David Bernstein

Here are his comments.

These graphs describe the temperature fluctuations on the surface of our planet during the last

10 thousand years,

50 thousand years,

420 thousand years,

5 million years,

65 million years,

542 million years

These graphs show some interesting cycles

The most important (from our point of view)
are the cycles from Kyr-420 and Myr-542

In Kyr-420 we see Ice ages (90% of the time)
when Boston and Moscow were covered by a mile-thick
layers of ice.

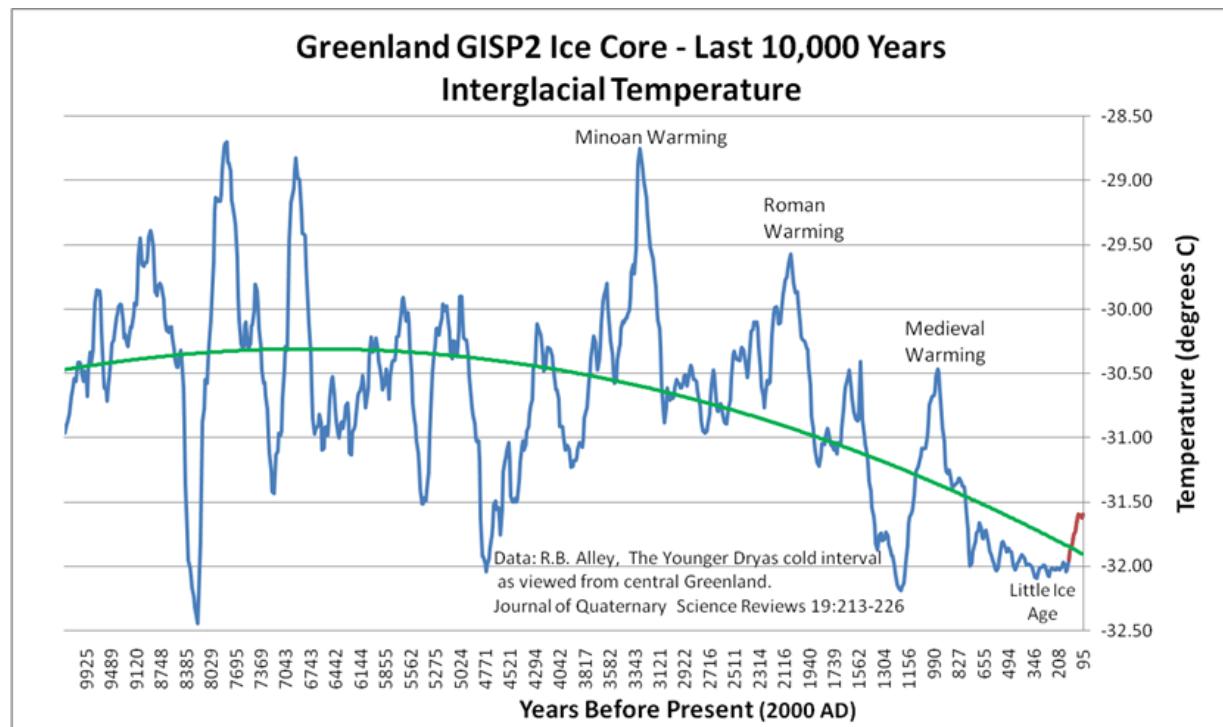
Every ~100Kyr they are interrupted by short
(~10Hyr) interglacial periods, when life becomes possible
in Europe (North of the Alps) and North America

Right now we are in one of these iterglacials (probably at the end of it)

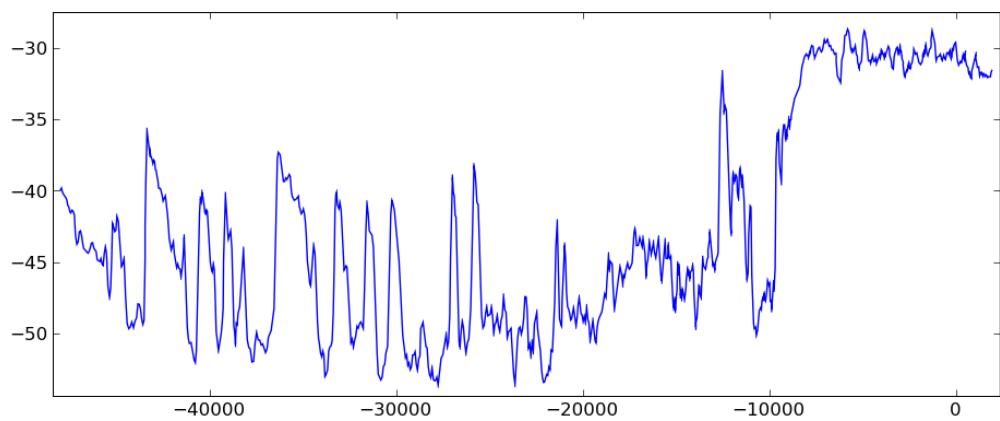
The most popular explanation is the Milankovich cycles (changes in the Earth's orbit)

On the other hand the cycles in Myr-542 are much longer
(~300Myr) and most of the time the Earth is much warmer
so that there is no ice on the poles (tropical climate in Greenland)
but occasionally the Earth enters the era of Ice ages (like during
the last 2Myr)

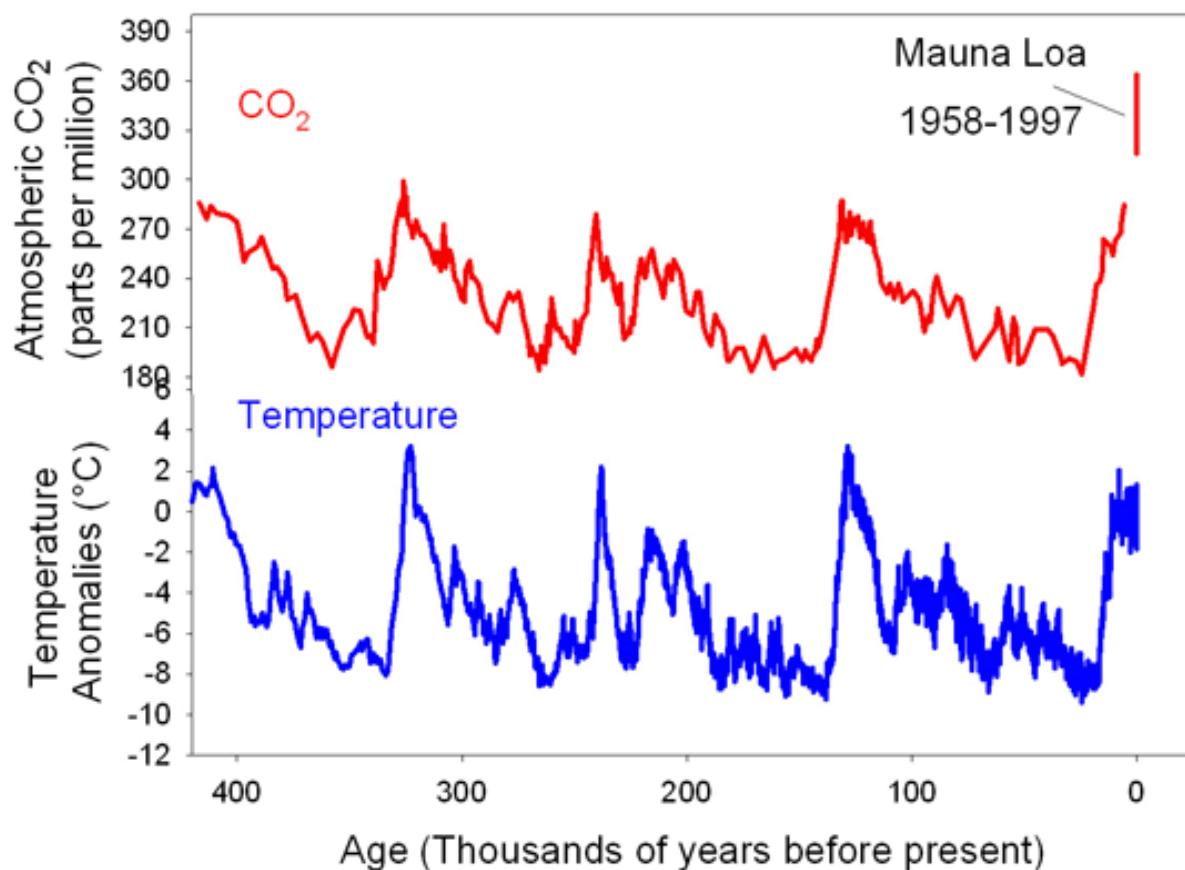
The most popular explanation is the movement of the solar system
around the galactic centers where occasionally we travel not far from
regions rich in Supernovas that increase the flux of cosmic rays
which facilitate the cloud formation and decrease the Earth's temperature



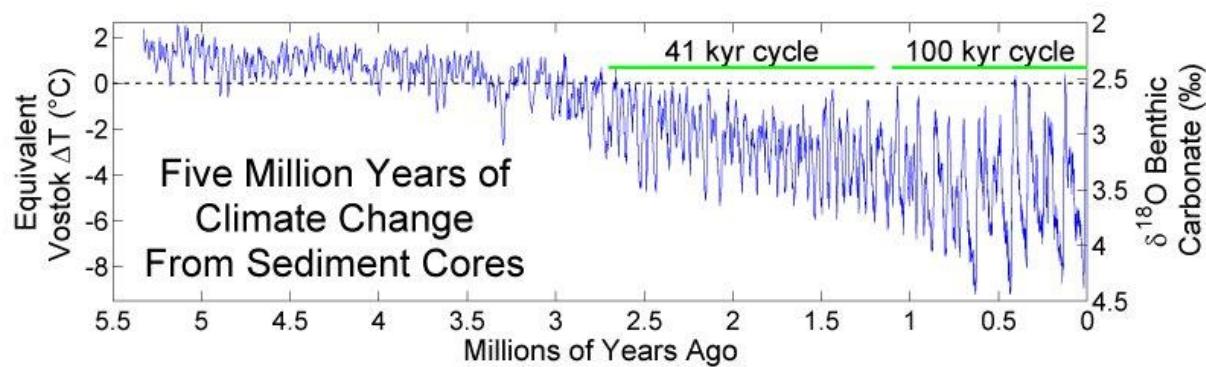
Temperature of Lower Atmosphere
Last 50,000 Years
From S.Hemisphere ice and air data

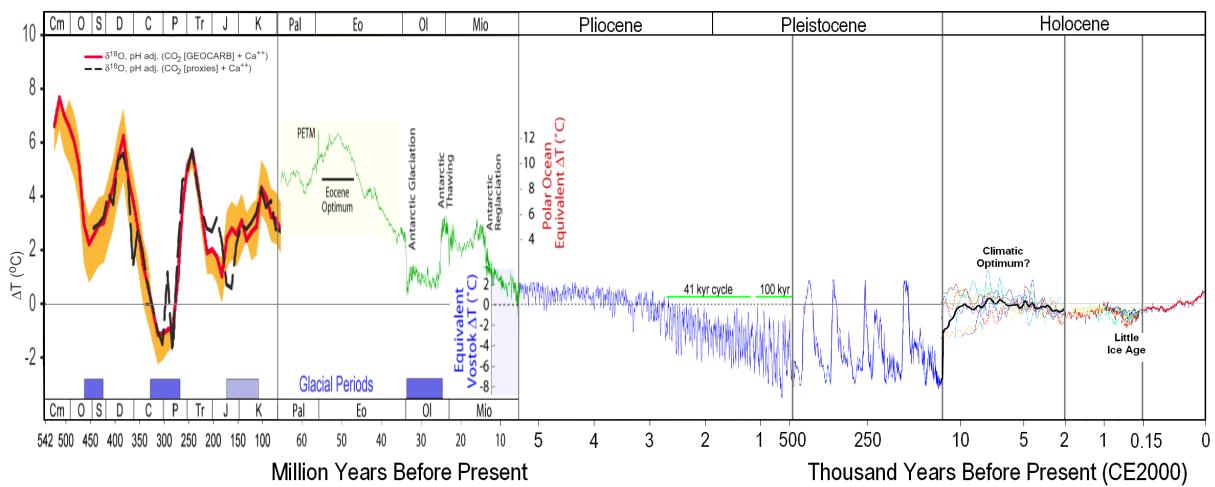
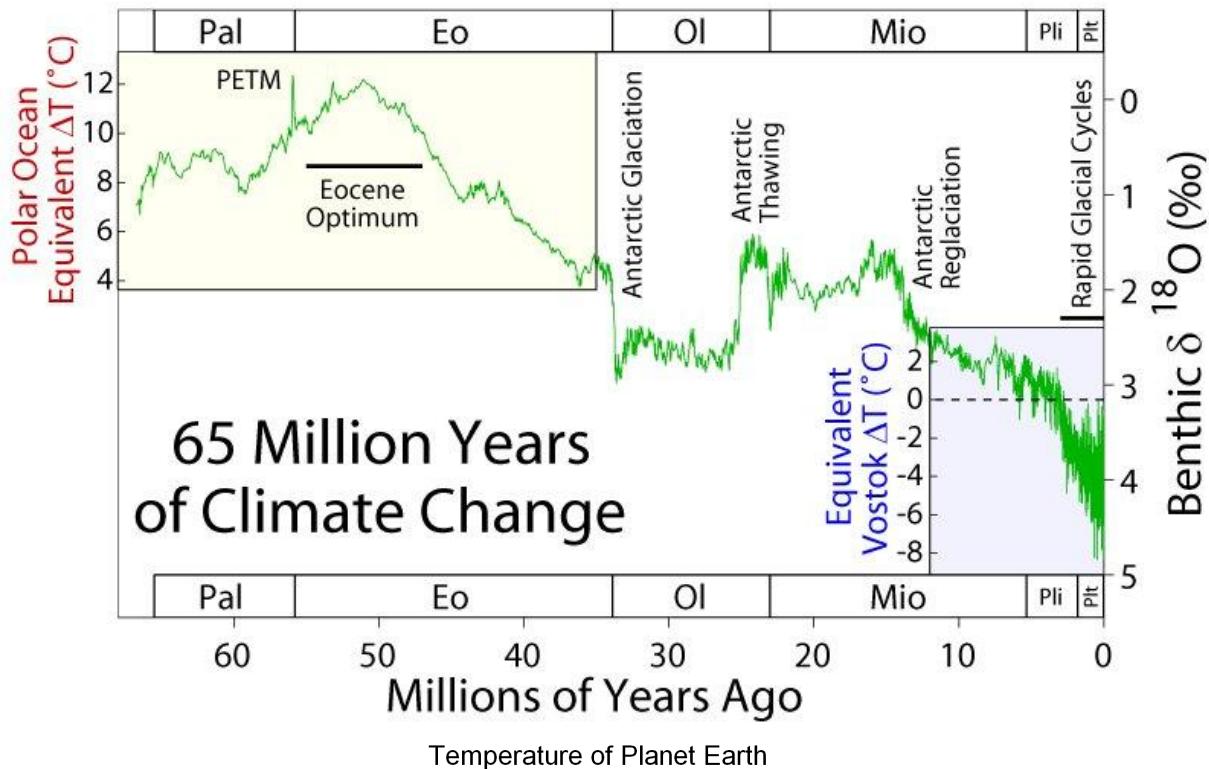


Vostok Ice Core, Antarctica



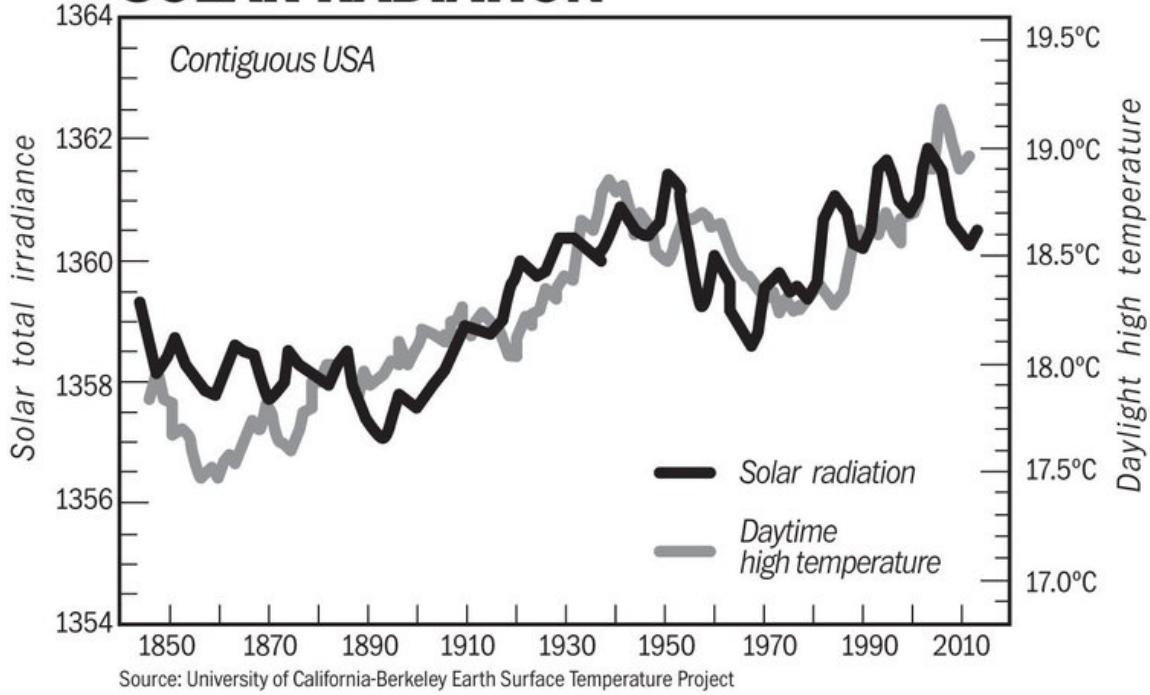
Petit et al. 1999 Nature

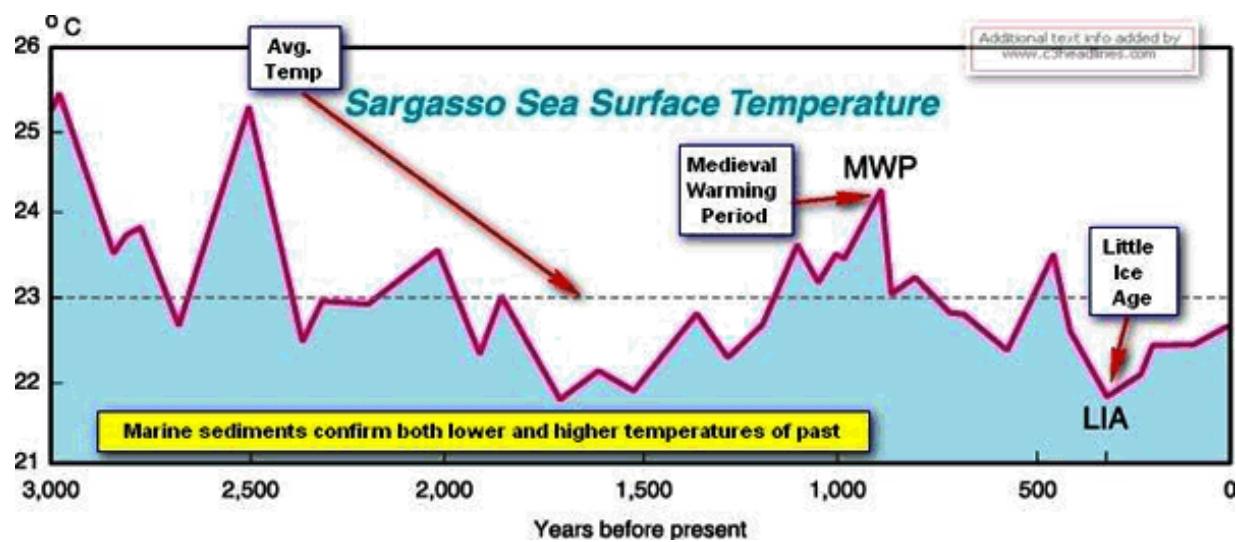
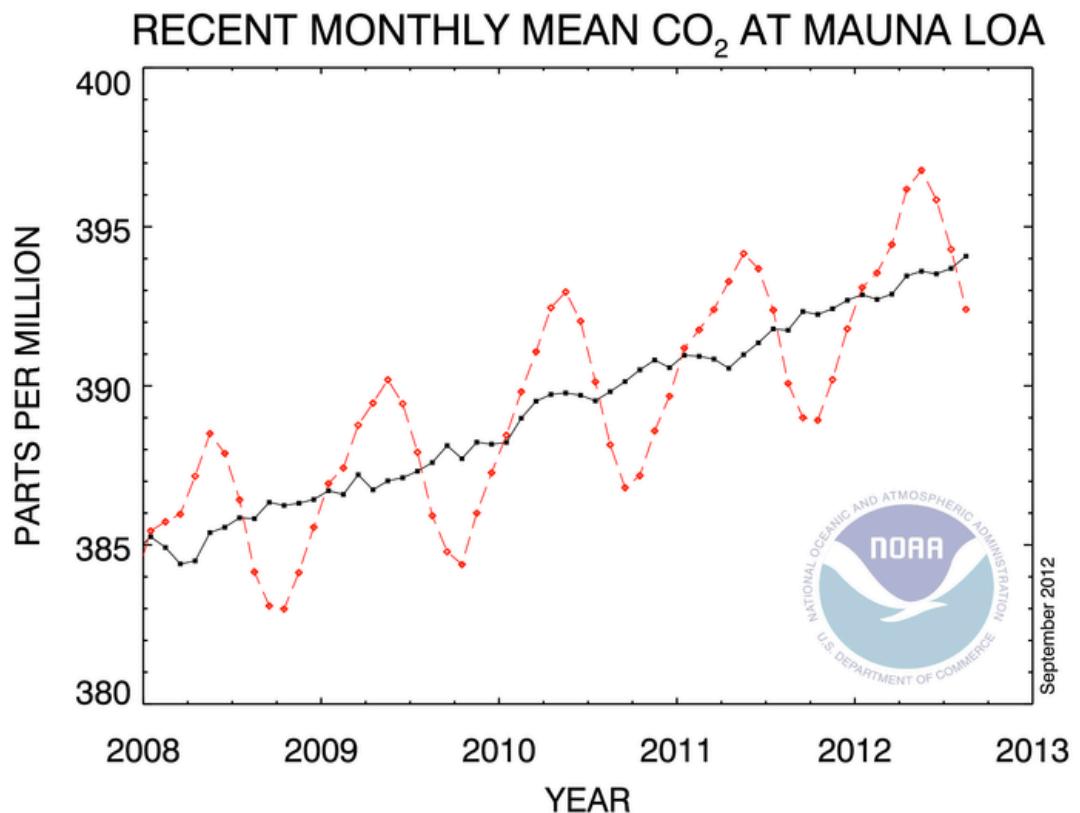


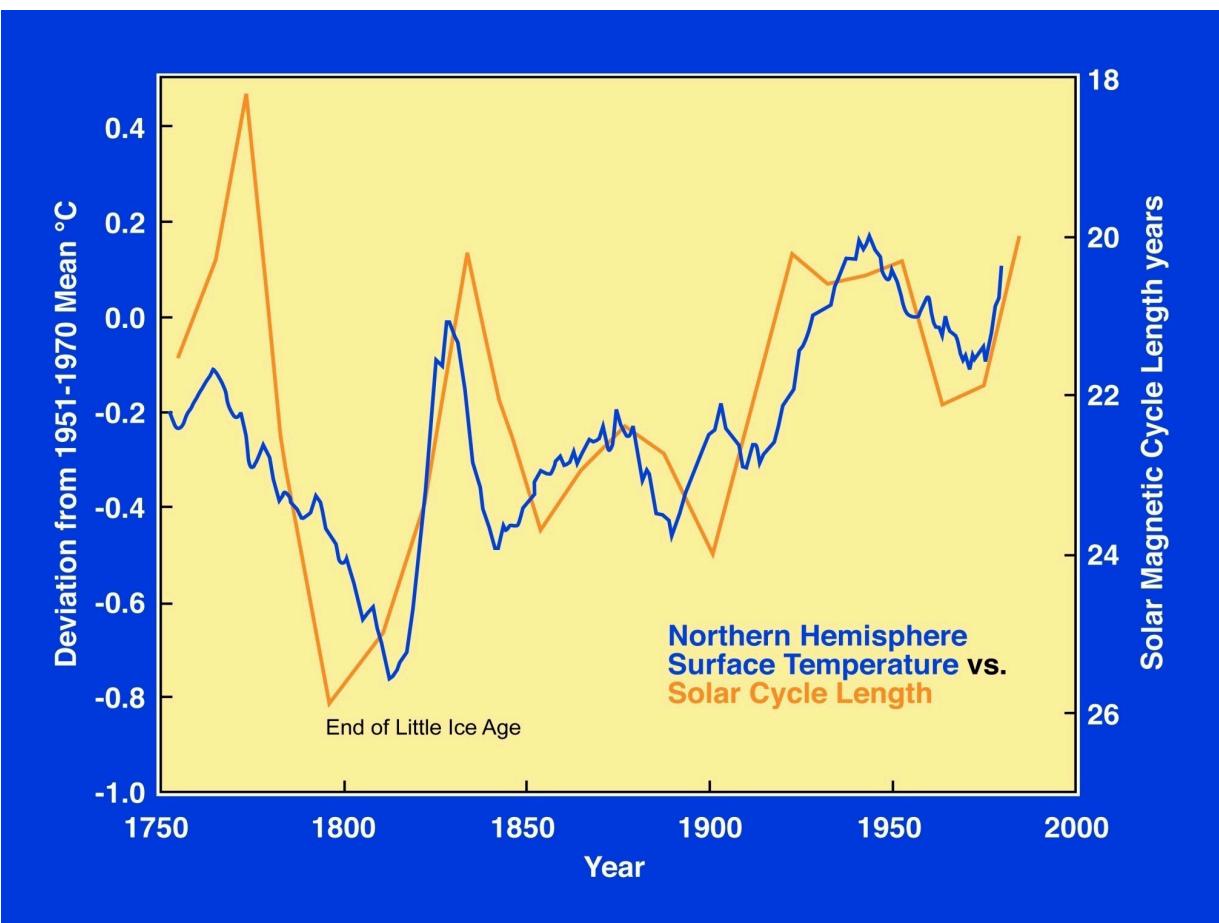
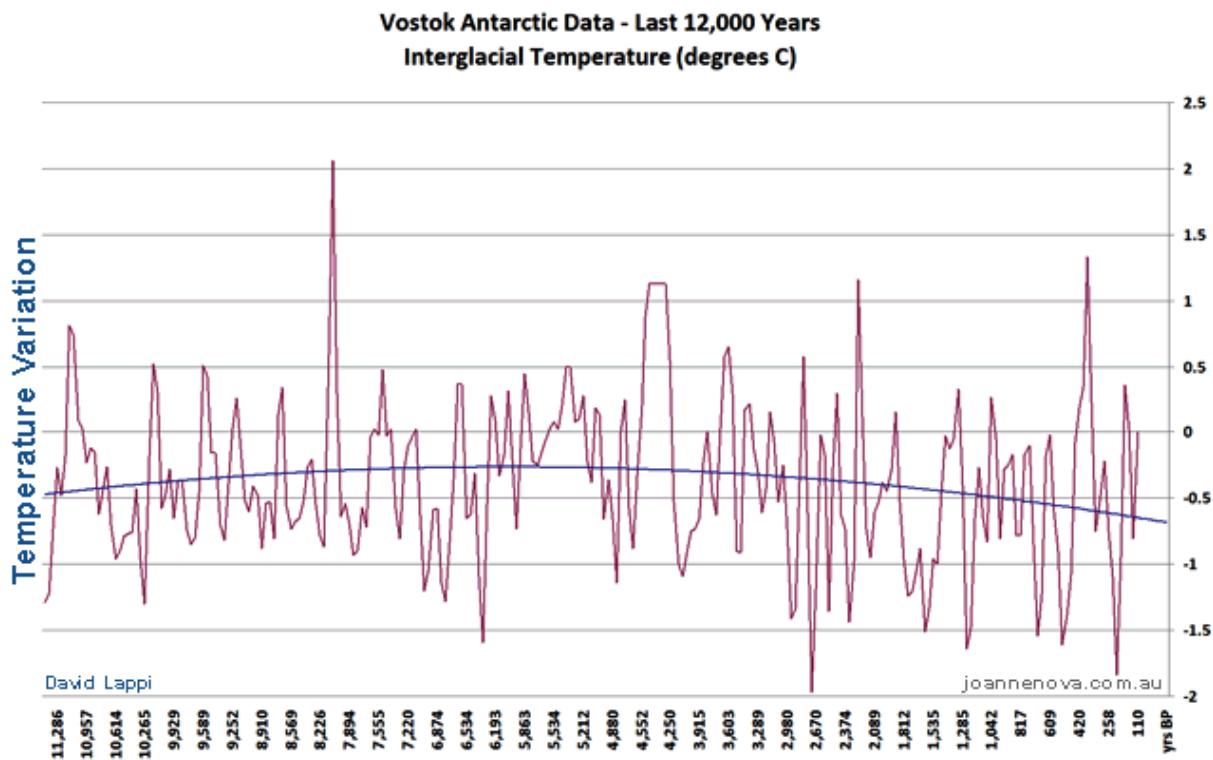


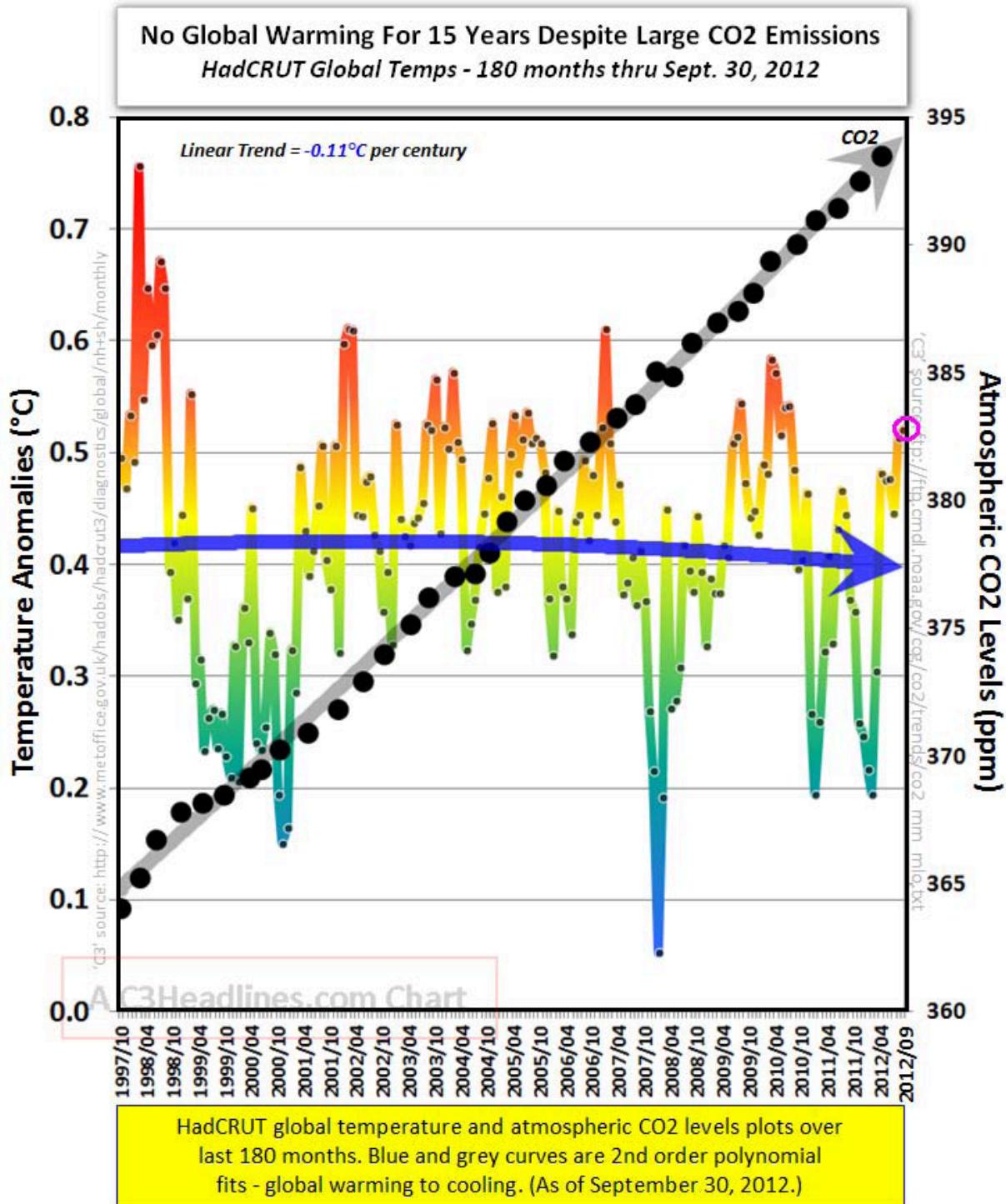
Other plots

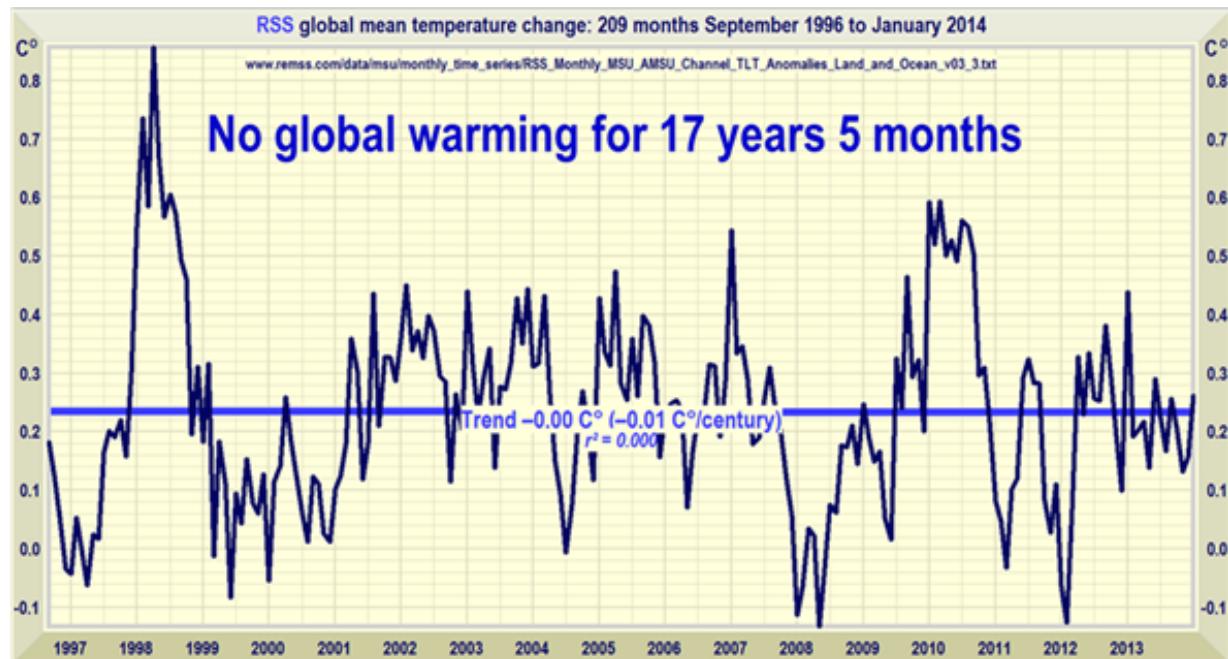
TEMPERATURES TRACK SOLAR RADIATION



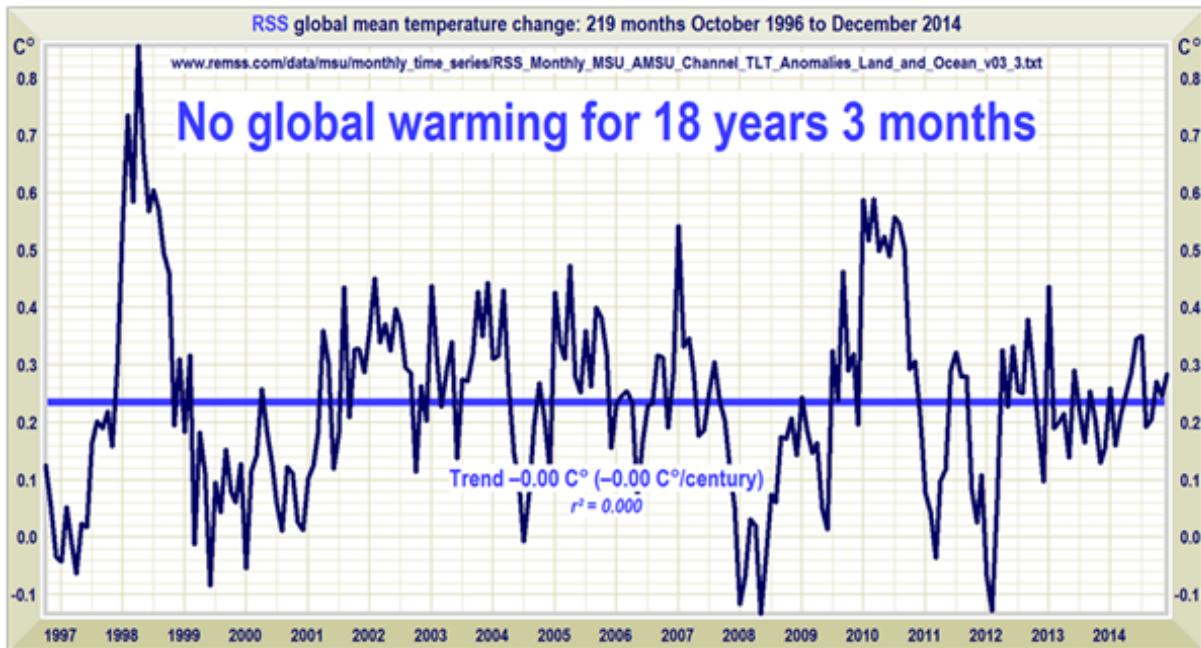






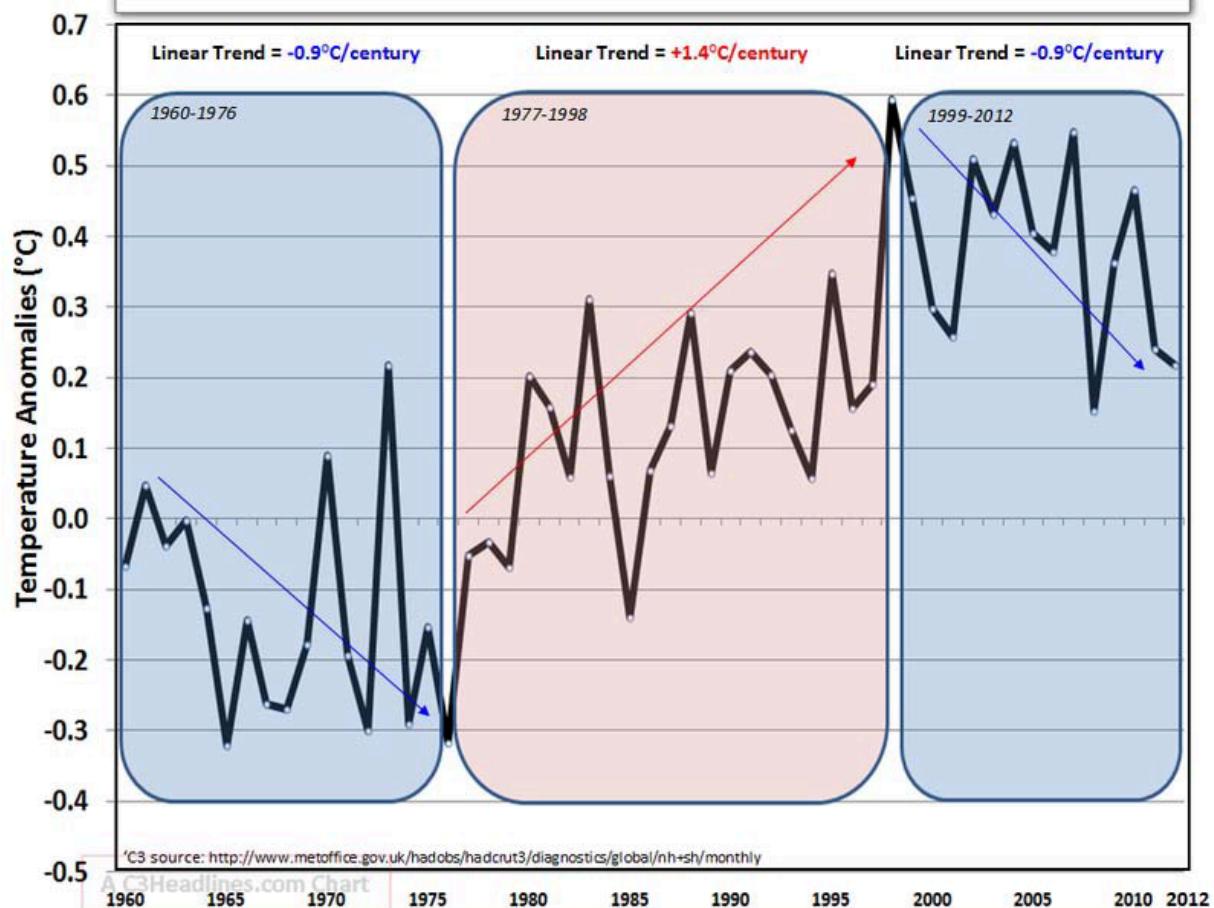


Satellites show no global warming for 17 years 5 months [Anthony Watts / February 6, 2014](#)



Trillion+ Tons of CO₂ = Little Impact On Temperatures

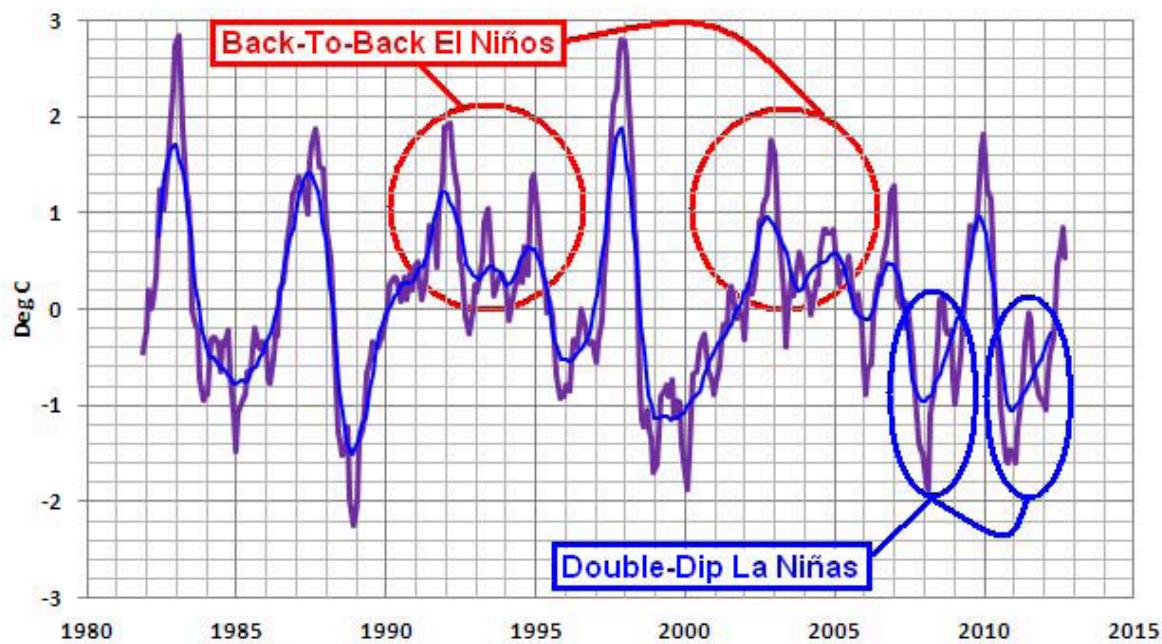
December-January-February HadCRUT Global Temps - 1960 thru 2012



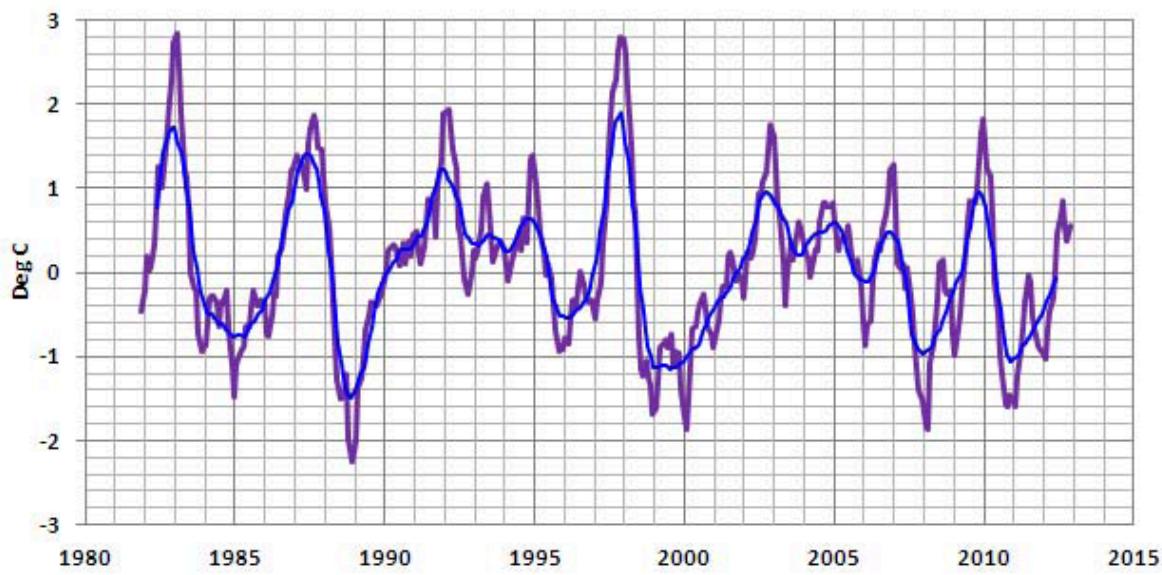
Above chart depicts the global cooling and warming phases experienced during the months of December, January and February, from 1960 through 2012. (Simple avg. of 3-months' anomalies.) Per the AGW theory and IPCC climate models the observed cooling trend from 1999 to 2012 should not have happened.

<http://c3headlines.typepad.com/.a/6a010536b58035970c0167647bf5a3970b-popup>

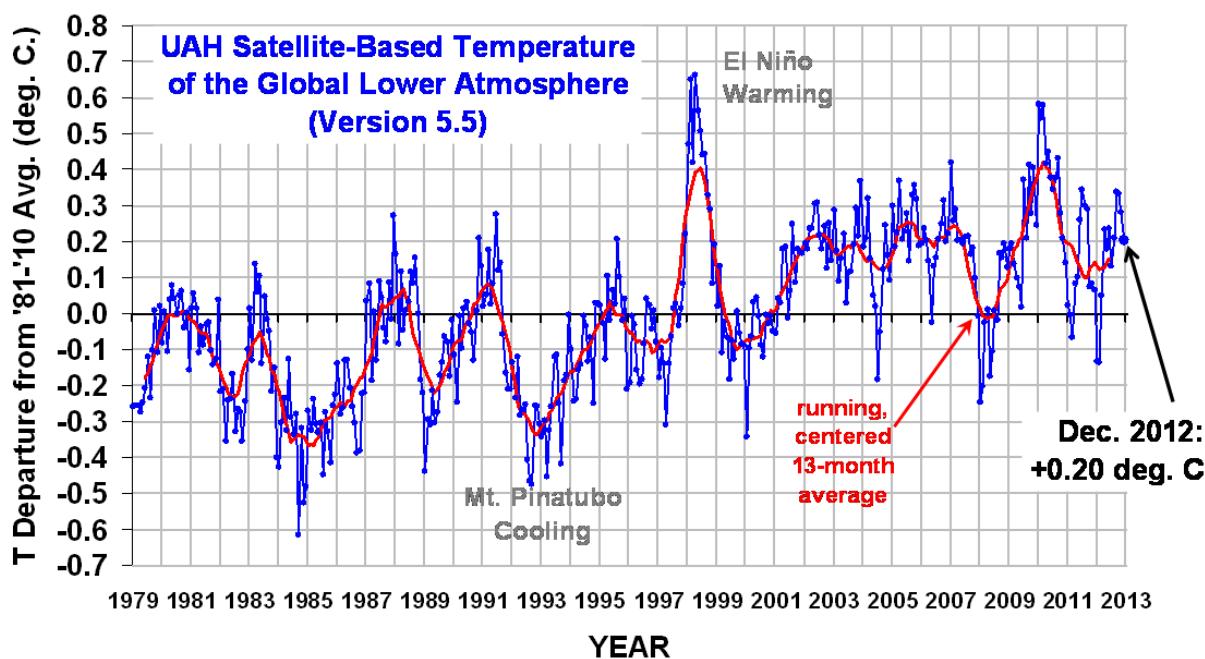
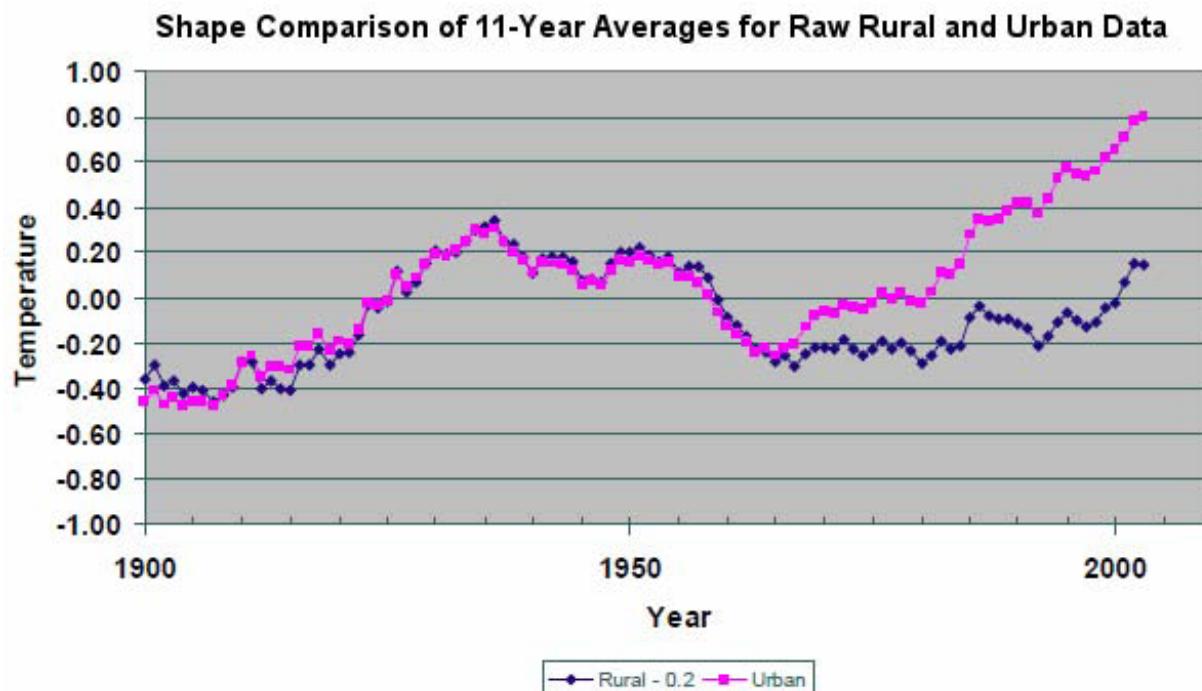
NINO3.4 Sea Surface Temperature Anomalies(Reynolds OI.v2)
Smoothed w/ 13-Month Running-Mean Filter
Nov 1981 to Sep 2012



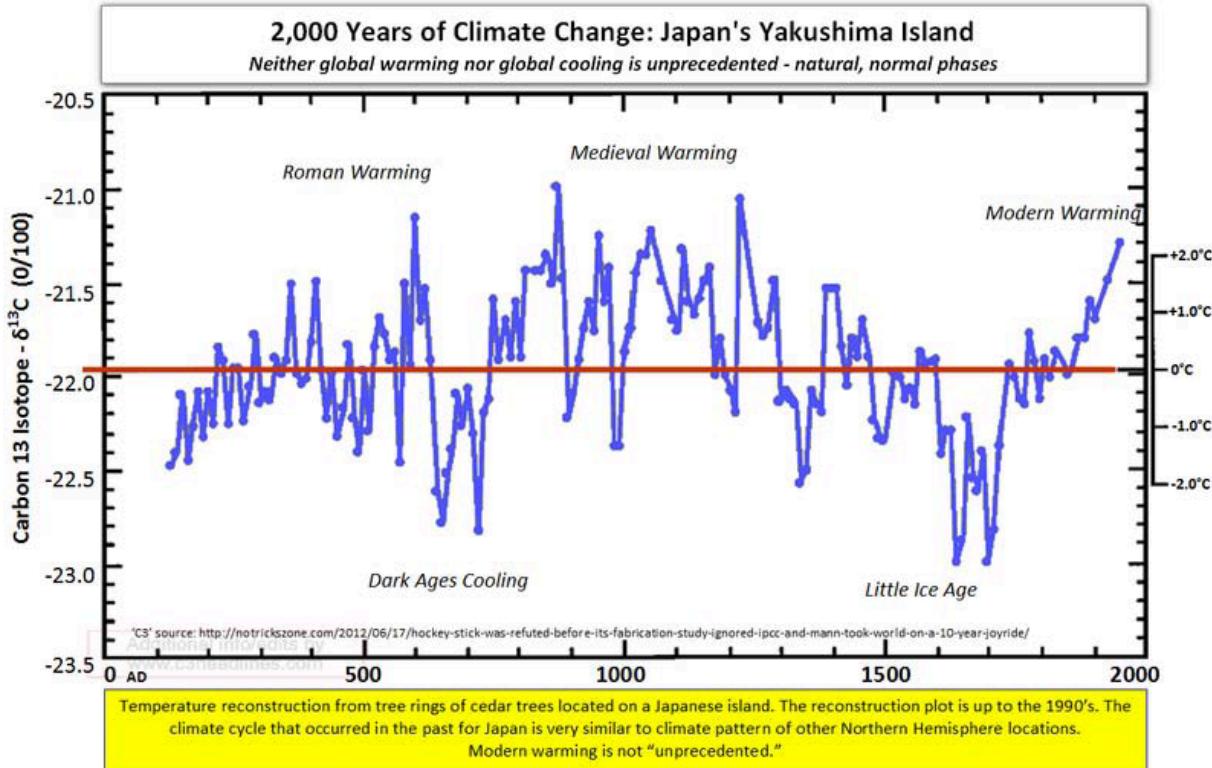
PRELIMINARY NINO3.4 Sea Surface Temperature Anomalies
(Reynolds OI.v2)
Smoothed w/ 13-Month Running-Mean Filter
Nov 1981 to Nov 2012
Nov 2012 Minus Oct 2012 = +0.160 Deg C



<http://bobtisdale.wordpress.com/>

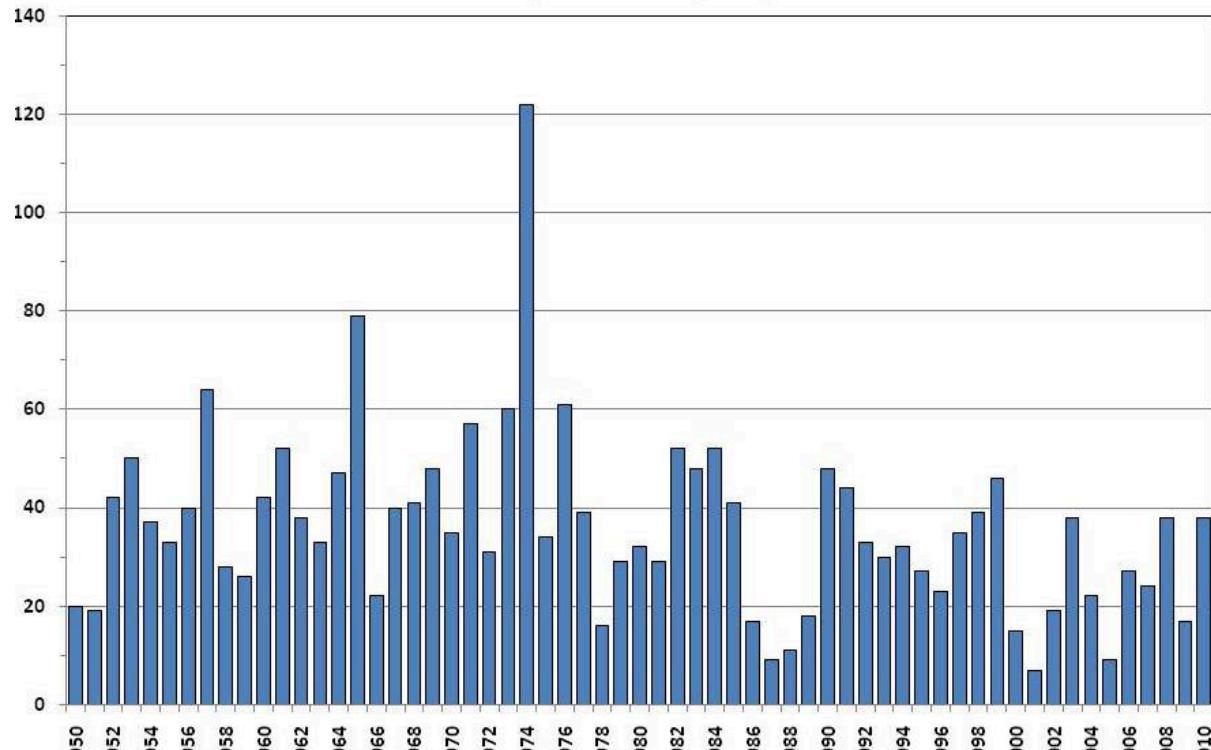


University of Alabama – Huntsville (UAH) – Dr. Roy Spencer – Click the pic to view at source

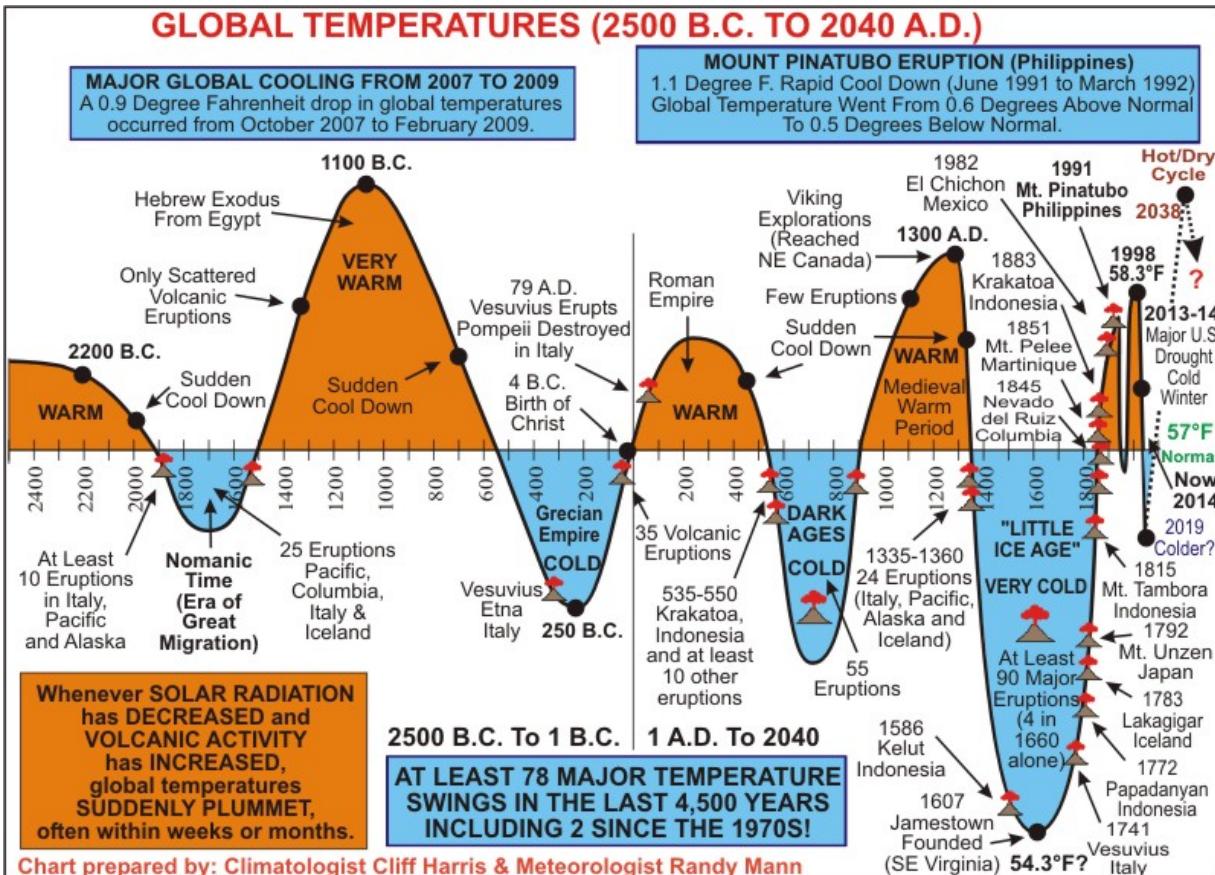




Number of Strong to Violent (EF3-EF5*)Tornadoes U.S. (March-August)

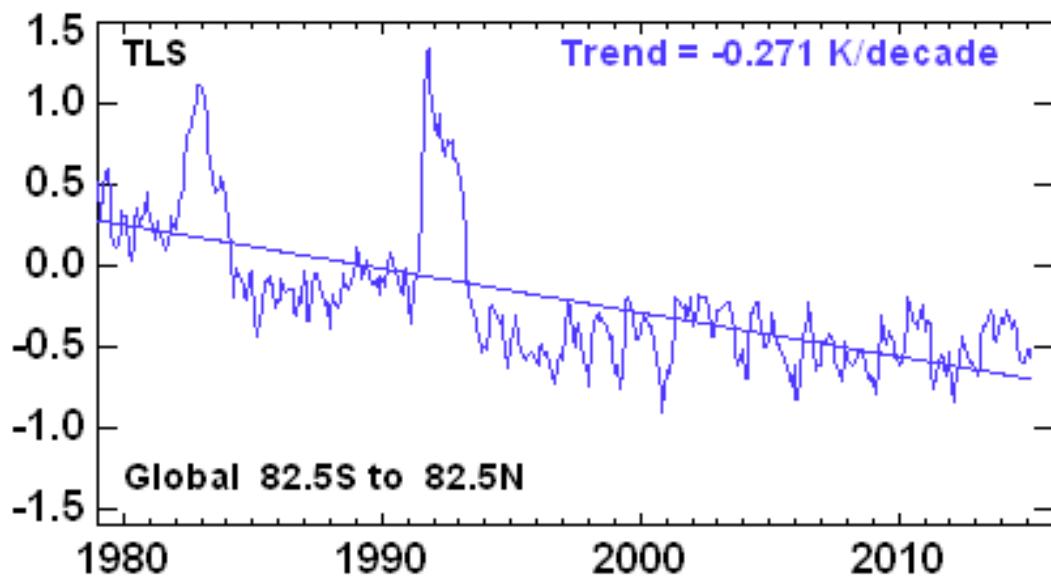


*Beginning in 2007, NOAA switched from the Fujita scale to the Enhanced Fujita scale for rating tornado strength.



Global Temperature Trends From 2500 B.C. To 2040 A.D. April 9, 2014

Temperature Lower Stratosphere (TLS) – Brightness Temperature Anomaly – 1979 to Present



Remote Sensing Systems (RSS) – Microwave Sounding Units (MSU) – Base Period 1979-1998
– Click the pic to view at source

SILSO Solar Cycle Sunspot Number Progression
Measured thru December 2014 (**Updated: January 1, 2015**)

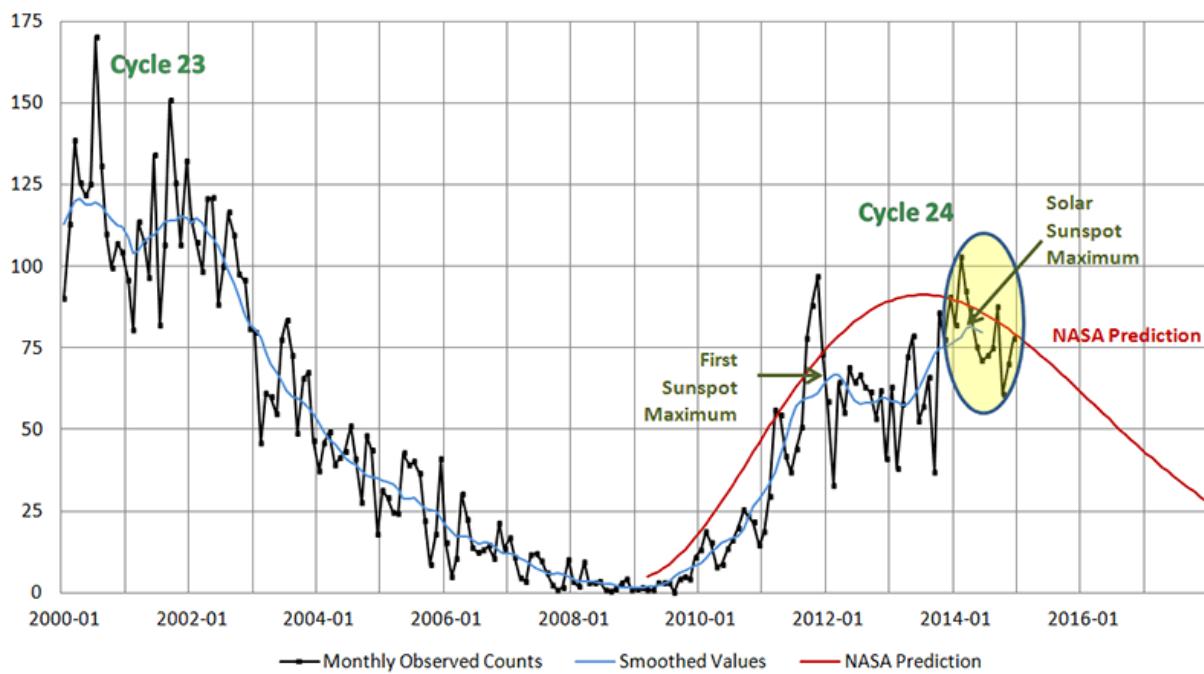
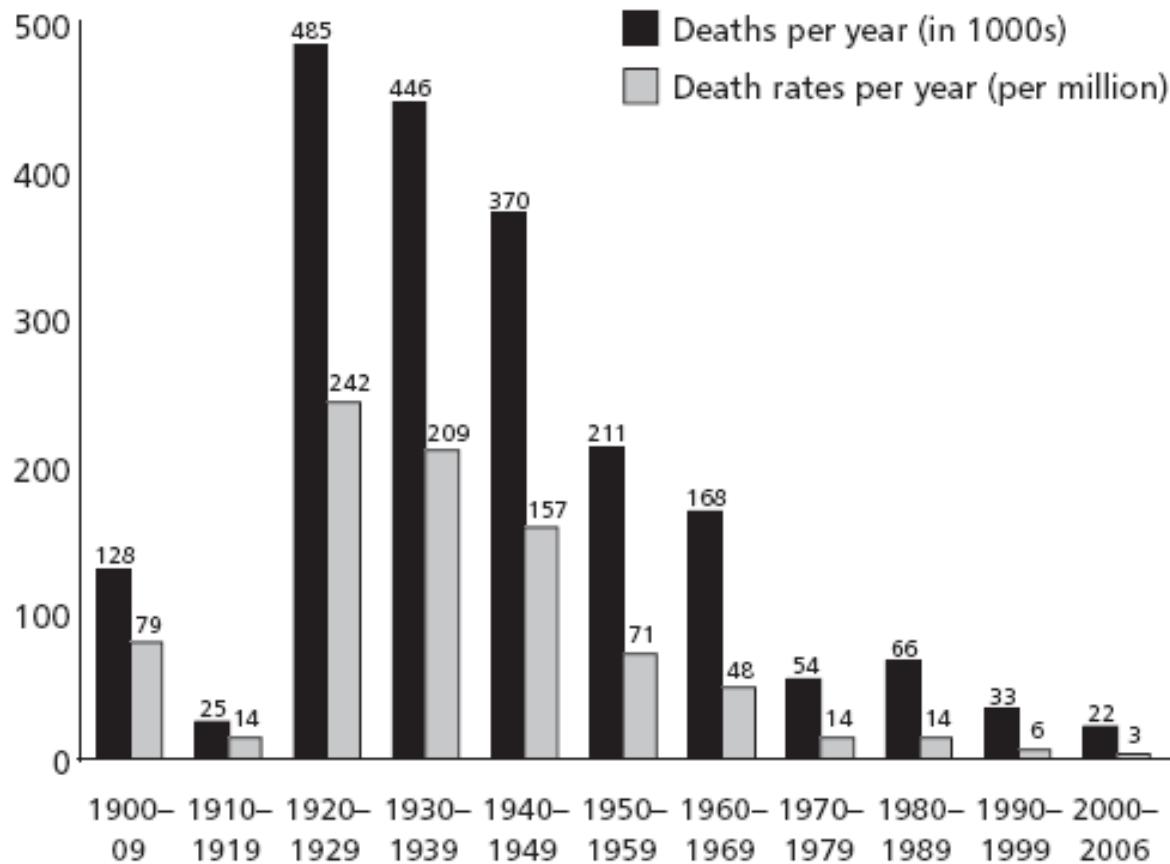


Figure 1 Global death and death rates due to extreme events, 1900–2006



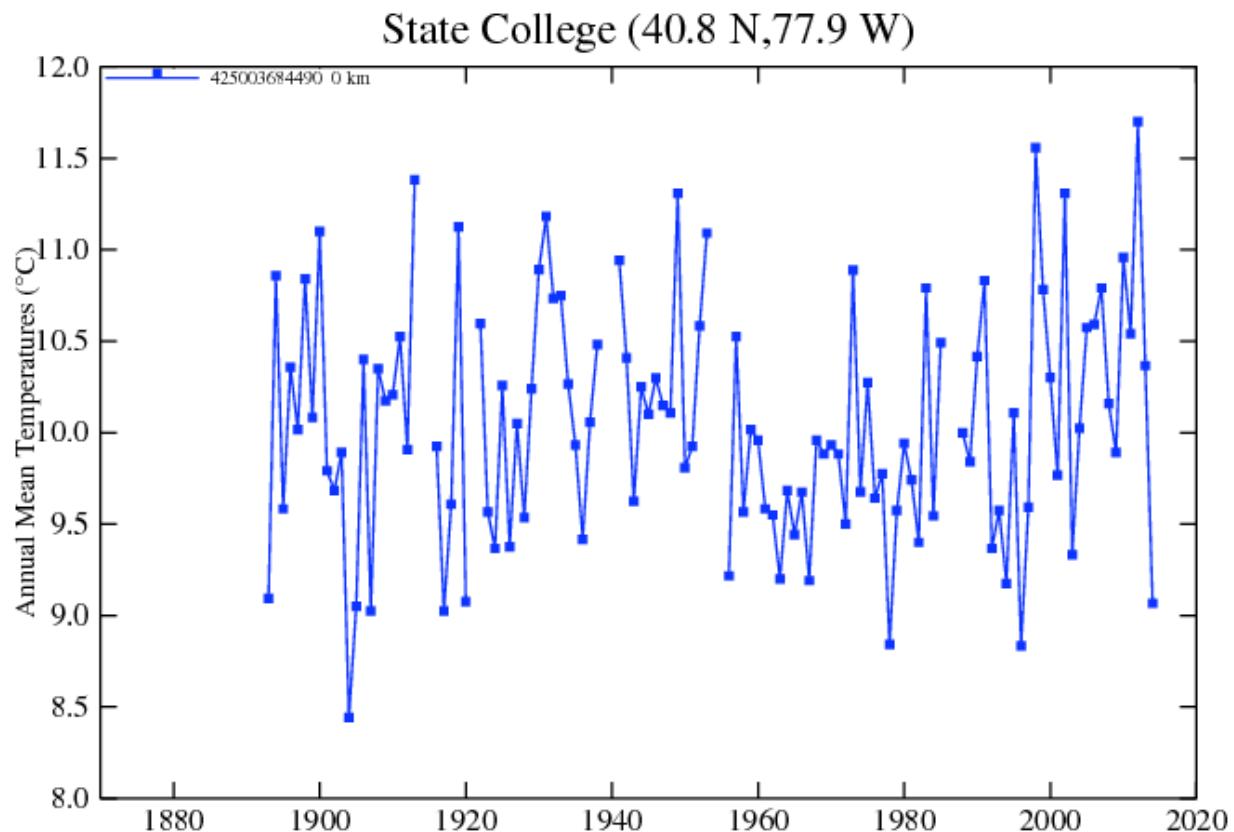
Going Down: Death Rates Due to Extreme Weather Events [Anthony Watts / July 5, 20](#)

State College - University Park Airport (KUNV)

Lat: 40.85°N Lon: 77.84°W Elev: 1188ft. National weather service

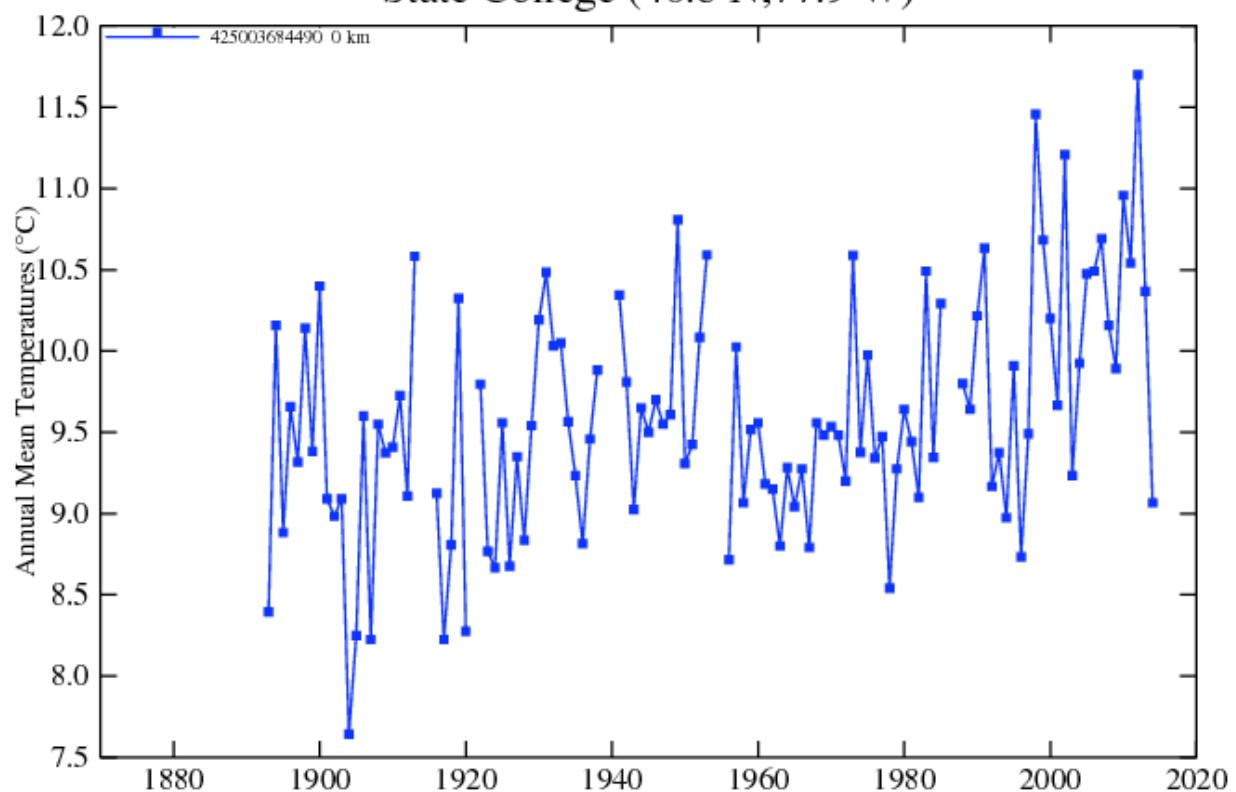
March 2015 the station 1434 Park Ln State College

Here is the temperature in State College before the
adjustments by GISS:



Here is the temperature in State College after the
adjustments by GISS:

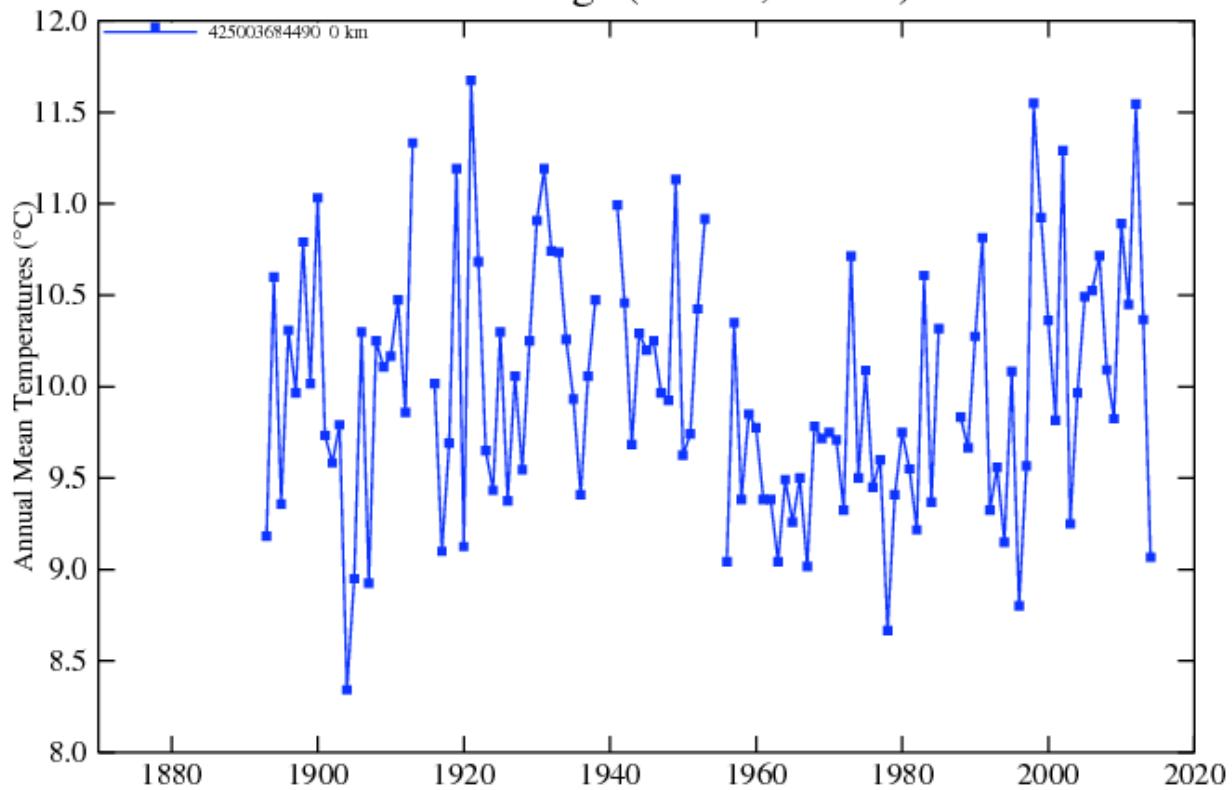
State College (40.8 N, 77.9 W)



Sept 2015 before adjustment

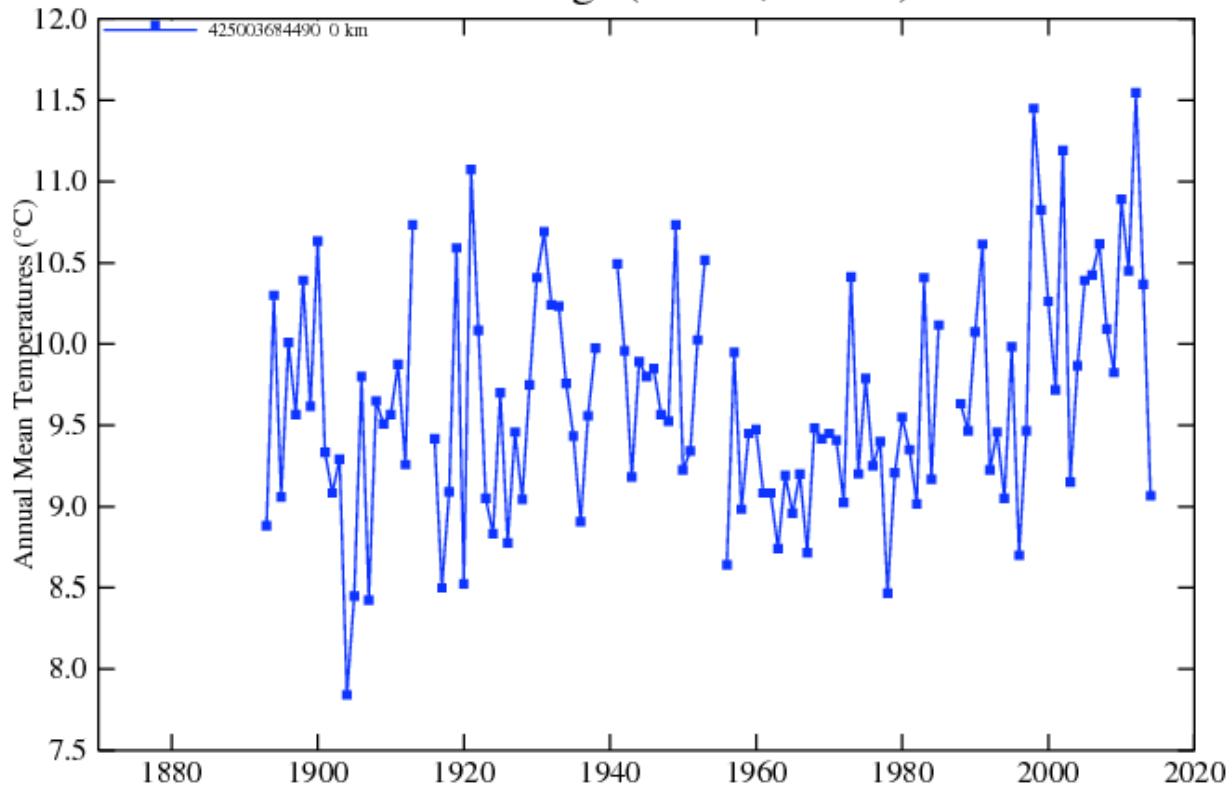
0

State College (40.8 N, 77.9 W)



Sep 2015 after adjustment

State College (40.8 N, 77.9 W)



Positive proof of global warming.



NEWS ITEM: WORLD'S SCIENTISTS ARE MORE THAN 90% CONFIDENT WARMING IS HUMAN DRIVEN!



FRONT COVER

DECEMBER 12, 1977

TIME

THE BIG FREEZE



APRIL 8, 1977



**Living with
Cancer**
The changing science

**Beyond
Détente:** Why
We Can't Beat
The Soviets



M*A*S*H
What Exit Will
Frank Take?

TIME

SPECIAL DOUBLE ISSUE



How To Survive The Coming Ice Age

51 Things You Can Do to Make a Difference



September 1973
December 1979

April 1977