

Sun Makes History: First Spotless Month In A Century

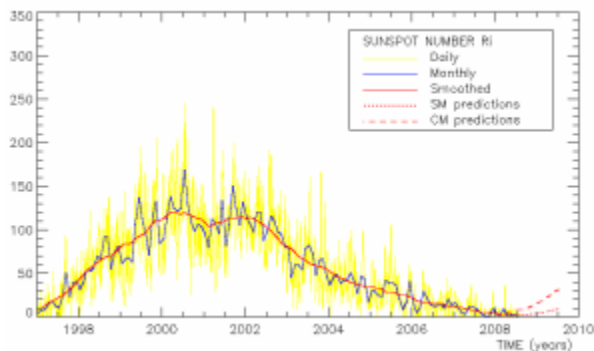
Science

Note from Pastor Kevin Lea: This is another scientific article that debunks the myth of global warming being caused by human generated greenhouse gases. What are the chances that the media will stop their propaganda to the contrary? - Zero.

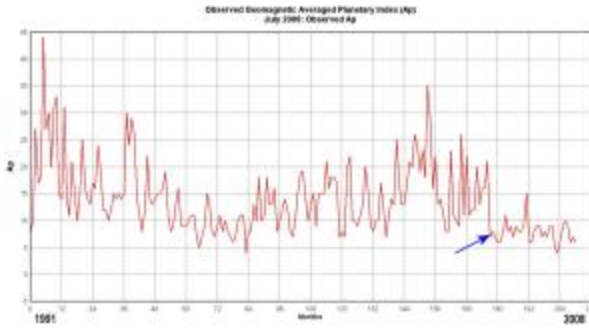
[Michael Asher \(Blog\)](#) - September 1, 2008 8:11 AM



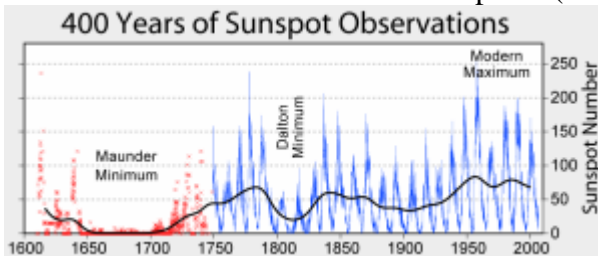
The record-setting surface of the [sun](#). A full month has gone by without a single spot (Source: Solar and Heliospheric Observatory (SOHO))



Sunspot activity of the past decade. Over the past year, SIDC has continually revised its predictions downward (Source: Solar Influences Data Center)



Geomagnetic solar activity for the past two decades. The recent drop corresponds to the decline in sunspots. (Source: Anthony Watts)



A chart of sunspot activity showing two prior solar minima, along with heightened activity during the 20th century (Source: Wikimedia Commons)

Drop in solar activity has potential effect for climate on earth.

The sun has reached a milestone not seen for nearly 100 years: an entire month has passed without a single visible sunspot being noted.

The event is significant as many climatologists now [believe](#) solar magnetic activity – which determines the number of sunspots -- is an influencing factor for climate on earth.

According to [data](#) from Mount Wilson Observatory, UCLA, more than an entire month has passed without a spot. The last time such an event occurred was June of 1913. Sunspot [data](#) has been collected since 1749.

When the sun is active, it's not uncommon to see sunspot numbers of 100 or more in a single month. Every 11 years, activity slows, and numbers briefly drop to near-zero. Normally sunspots return very quickly, as a new cycle begins.

But this year -- which corresponds to the start of Solar Cycle 24 -- has been extraordinarily long and quiet, with the first seven months averaging a sunspot number of only 3. August followed with none at all. The astonishing rapid drop of the past year has defied predictions, and caught nearly all astronomers by surprise.

In 2005, a pair of astronomers from the National Solar Observatory (NSO) in Tucson attempted to publish a paper in the journal *Science*. The pair looked at

minute spectroscopic and magnetic changes in the sun. By extrapolating forward, they reached the startling result that, within 10 years, sunspots would vanish entirely. At the time, the sun was very active. Most of their peers laughed at what they considered an unsubstantiated conclusion.

The journal ultimately rejected the paper as being too controversial.

The paper's lead author, William Livingston, tells *DailyTech* that, while the refusal may have been justified at the time, recent data fits his theory well. He says he will be "secretly pleased" if his predictions come to pass.

But will the rest of us? In the past 1000 years, three previous such events -- the Dalton, Maunder, and Spörer Minimums, have all led to rapid cooling. One was large enough to be called a "mini ice age". For a society dependent on agriculture, cold is more damaging than heat. The growing season shortens, yields drop, and the occurrence of crop-destroying frosts increases.

Meteorologist Anthony Watts, who runs a climate data auditing site, tells *DailyTech* the sunspot numbers are another indication the "sun's dynamo" is idling. According to Watts, the effect of sunspots on TSI (total solar irradiance) is negligible, but the reduction in the solar magnetosphere affects cloud formation here on Earth, which in turn modulates climate.

This theory was originally proposed by physicist Henrik Svensmark, who has published a number of scientific papers on the subject. Last year Svensmark's "SKY" experiment claimed to have proven that galactic cosmic rays -- which the sun's magnetic field partially shields the Earth from -- increase the formation of molecular clusters that promote cloud growth. Svensmark, who recently published a [book](#) on the theory, says the relationship is a [larger factor](#) in climate change than greenhouse gases.

Solar physicist Ilya Usoskin of the University of Oulu, Finland, tells *DailyTech* the correlation between cosmic rays and terrestrial cloud cover is more complex than "more rays equals more clouds". Usoskin, who notes the sun has been more active since 1940 than at any point in the past 11 centuries, says the effects are most important at certain latitudes and altitudes which control climate. He says the relationship needs more study before we can understand it fully.

Other researchers have proposed solar effects on other terrestrial processes besides cloud formation. The sunspot cycle has strong effects on irradiance in certain wavelengths such as the far ultraviolet, which affects ozone production. Natural production of isotopes such as C-14 is also tied to solar activity. The overall effects on climate are still poorly understood.

What is incontrovertible, though, is that ice ages have occurred before. And no scientist, even the most skeptical, is prepared to say it won't happen again.