



## Secret Santa Whistleblower Files End Climate Change Catastrophe Cult says Friends of Science – Backgrounder and Additional References

1. The IPCC now admits there are many empirical relationships that show solar forcing far in excess of TSI changes. They list only three studies, but there are in fact hundreds.
2. Page 9 of the Friends of Science Doha [Position Paper](#) shows a graph of northern hemisphere temperatures and TSI that indicates that most of the 20th century warming was natural, and a link to a chart showing excellent correlation between temperatures and a solar proxy over 3000 years. These come from peer-reviewed sources.
3. Friends of Science website offers a compilation of papers on solar science. From the left navigation menu on the [FoS website](#), select Climate Science. The Sun [here](#). This lists 25 articles on the solar-climate connection. Many of these articles are peer-reviewed publications, some are summaries based on published articles.
4. The "Sun activity correlates with temperature" of Climate Change Science essay [here](#) shows these papers:

The Varying Sun & Climate Change [here](#), which references two important peer-reviewed papers;

Baliunas, Soon (1995, 2003) [here](#) [Proxy data shows the 20th century was not the warmest of the millenium]

Herschel (1801) [Wheat and sun spots]

Frits-Christensen and Lassen (1991) [here](#) [Solar cycle length and climate]

Scafetta and West (2007) [here](#) [northern hemisphere solar and temperature 400 years, source of graph [here](#) in Position Paper]

Ruzmaikin and Feynman (2007) [solar-auroras and old Nile records, 622 to 1470 AD]

Alexander et al (2007) [here](#) [Lake Victoria level and sunspots]

Neff et al (2001) [here](#), source of the graph [here](#) featured in Position paper [stalagmite study temperature and solar proxies correlation over 3000 years]

Shaviv and Veizer (2003) [here](#), [Celestial driver of Phanerozoic climate, cosmic rays vs temperature over 500 million years.]

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Also see:

Bond et al (2001) [here](#) [North Atlantic solar vs Holocene climate]

Shaviv (2002) [here](#) [Cosmic rays recorded in iron meteorites vs temperature]

Three paper showing correlations between cosmic rays (due to solar variations) and low cloud cover are:

Marsh and Svensmark (2000) [here](#) [Low clouds and cosmic rays]

Marsh and Svensmark (2003) [here](#) [El Nino trends in low clouds and cosmic rays]

Usoskin et al (2004) [here](#) [geographic signature of the cosmic ray variations in the low clouds]

5. Chapter 5 of the Non-Intergovernmental Panel on Climate Change [here](#) gives an excellent review of the sun-climate connection. The chapter has references to hundreds of peer-reviewed studies.
6. The "Solar Influence on Climate page at CO2Science.org [here](#) has a list of 40 papers that finds strong evidence for the sun having a significant influence on climate.

All of the papers referenced above imply that the solar influence is much greater than the variation of the sun's output, or TSI (Total Solar Irradiance).

7. The Friends of Science Doha Position Paper states on page 2, "The Sun's strong magnetic field ... has increased throughout the 20th century causing climate change", NOT sun's output. Page 8 "How the Sun Affects Climate" states, "The total energy emitted by the Sun varies only a fraction of a percent, but the solar magnetic field has increased nine fold from 1890 to 1990."
8. Milankovitch cycles and CO2 explain past climate variability, but do not account for recent warming.
9. CO2 emissions do not explain the lack of warming of the last 15 years, the cooling from 1941 to 1964, or the warming from 1911 to 1941. Climate models do a spectacularly poor job of replicating global temperature changes over the 20 century and by latitude region.
10. The UK Met Office reports their HadCrut3 temperature index here:  
1998 = 0.529 C  
2010 = 0.478 C  
The satellite data of the lower troposphere from RSS shows:  
1998 = 0.550 C  
2010 = 0.476 C

A solar cycle is too short to cause much of a temperature change. The large heat capacity of the oceans smooths and delays solar induced temperature changes. A solar cycle causes about a 0.05 C temperature variation, a change which can be overwhelmed by ENSO events. Several low intensity solar cycles are required to cause a significant temperature change.

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