

Information Fact Sheet

FACT 1 - CO₂ Concentrations during the ORDOVICIAN PERIOD were 12 times higher than today's concentrations at 4400 ppm , yet an Ice Age took place during this period of time.

FACT 2 - CARBONIFEROUS PERIODS had CO₂, concentrations similar today and glaciations did take place.

FACT 3 - A change in earth's ALBEDO of just 1.5% corresponds to a change in the temperature of the earth of .5C.

FACT 4 - Volcanic activity causes a loss of atmospheric OZONE.

FACT 5 - Evidence says the STRATOSPHERE, has undergone a slight warming trend since 1996.

FACT 6 - The wave lengths at which CO₂ absorbs long wave radiation from earth, those being at wavelengths of 2.5, 4 and 15 microns are saturated. In other words, adding more CO₂ to the atmosphere will not increase the ability of CO₂ to further absorb long wave radiation being emitted from the earth at the bands in which CO₂ does absorb long wave radiation from earth.

FACT 7 - The level of solar activity during the past 70 years (talking last century) is exceptional. The last period of similar magnitude occurred over 8000 years ago. The sun was at a similarly high level of magnetic activity for only 10% of the past 11,400 years and almost all of the earliest high activity periods were shorter than the present episode.

FACT 8 - The Sun's total magnetic flux rose by a factor of 1.41 from 1964 -1996 and by a factor of 2.3 since 1901.

FACT 9 - Since the MAUNDER SOLAR MINIMUM period (1615 - 1700 approx.) UV light from the sun has increased by at least 3% and the solar irradiance has had an increase of at least .1% if not as high as .6%, with average estimates in the increase in solar irradiance since the Maunder Minimum coming in at +0.25%.

FACT 10 - The MINOAN WARM PERIOD, ROMAN WARM PERIOD and MEDIEVAL WARM PERIOD were all warmer than the current modern warm period which we suggest in 1998. These three prior warm periods corresponded to periods of rather high solar activity.

MINOAN PERIOD - 1300 BC APPROXIMATELY

ROMAN PERIOD - 100 BC APPROXIMATELY

MEDIEVAL PERIOD - 1000 AD APPROXIMATELY

The CO₂ concentrations during these three warm periods were lower than today's concentrations. Man had no impacts and solar activity was high.

What does that say about the small +.6C warming that took place last century? One of the many facts that has to be evaluated when trying to determine if there is any validity (which we believe there is not) to AGW (Anthropogenic Global Warming).