

A Compilation of the Arguments that Irrefutably Prove that Climate Change is driven by Solar Activity and not by CO2 Emission

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I. Climatological facts

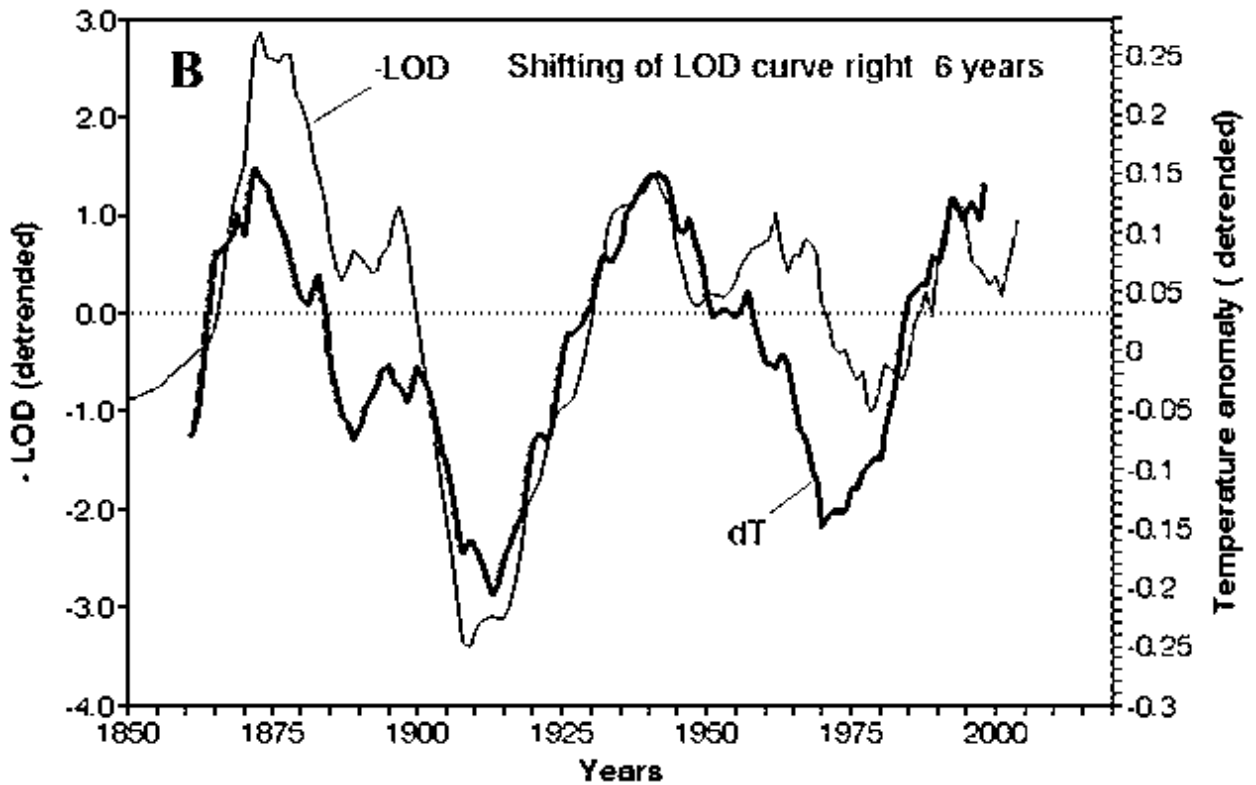
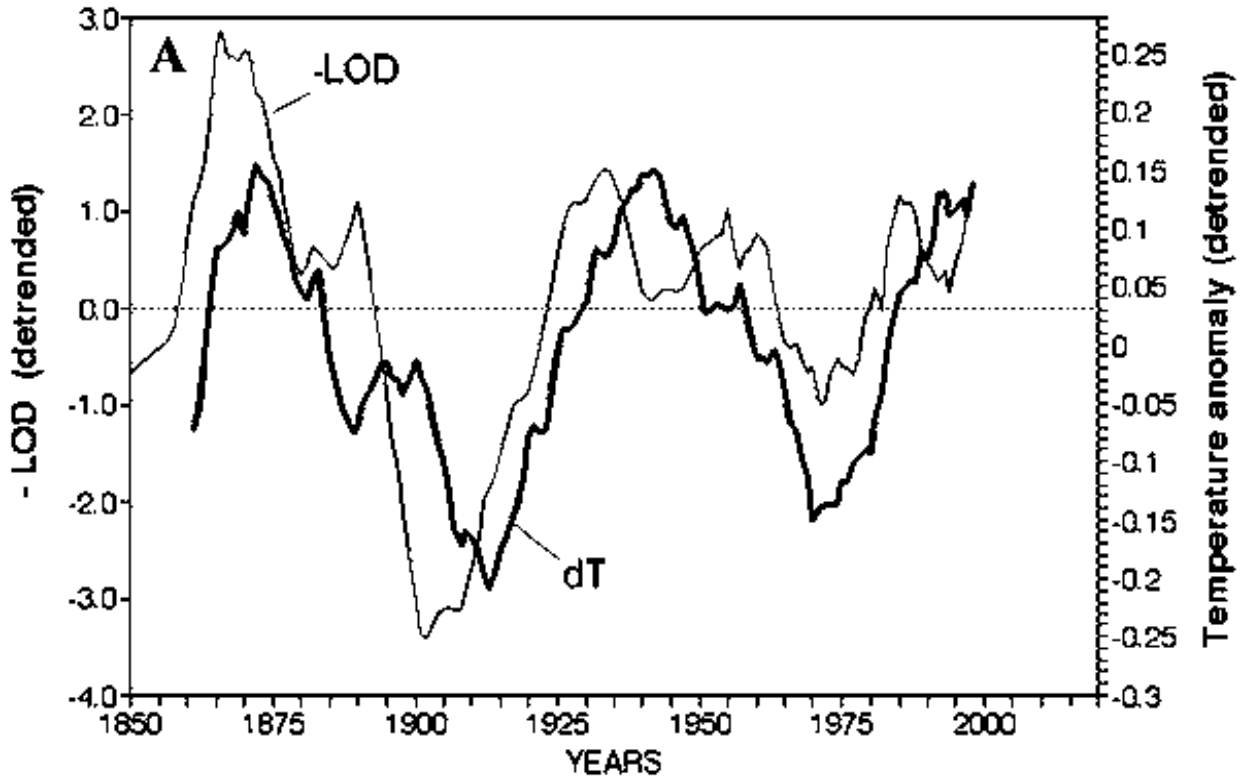
As the glaciological and tree ring evidence shows, climate change is a natural phenomenon that has occurred many times in the past, both with the magnitude as well as with the time rate of temperature change that have occurred in the recent decades. The following facts prove that the recent global warming is not man-made but is a natural phenomenon.

1. In the temperature trace of the past 10 000 years based on glaciological evidence, the recent decades have not displayed any anomalous behavior. In two-thirds of these 10,000 years, the mean temperature was even higher than today. Shortly before the last ice age the temperature in Greenland even increased by 15 degrees C in only 20 years. **All of this without any man-made CO2 emission!**

2. **There is no direct connection between CO2 emission and climate warming.** This is shown by the fact that these two physical quantities have displayed an entirely different temporal behavior in the past 150 years. Whereas the mean global temperature varied in a quasi-periodic manner, with a mean period of 70 years, the CO2 concentration has been increasing exponentially since the 1950's. The sea level has been rising and the glaciers have been shortening practically linearly from 1850 onwards. Neither time trace showed any reaction to the sudden increase of hydrocarbon burning from the 1950's onwards.

3. The hypothesis that the global warming of the past decades is man-made is based on the results of calculations with climate models in which **the main influence on climate is not included.** The most important climate driver (besides solar luminosity) comes from the interplay of solar activity, interplanetary magnetic field strength, cosmic radiation intensity, and cloud cover of the Earth atmosphere. As is shown in Section II, this phenomenon is generated by the action of galactic vacuum density waves on the core of the Sun.

4. The extremely close correlation between the changes in the mean global temperature and the small changes in the rotational velocity of the Earth in the past 150 years (see Fig. 2.2 of www.fao.org/DOCREP/005/Y2787E/y2787e03.htm) which has been ignored by the mainstream climatologists, **leaves little room for a human influence on climate.** This close correlation results from the action of galactic vacuum density waves on the Sun and on the Earth (see Section II).



Figures 2.2: Dynamics of the detrended global temperature anomaly (dT) and detrended negative Length of Day (-LOD). The ACI ("zonal" form) has practically no pronounced

general trend. Comparison of dT and ACI (Figure 2.2A) shows their close similarity in shape, but ACI runs several years ahead of dT. Shifting the ACI curve by 4 years to the right (Fig 2.2B) results in almost complete coincidence of the curve maximums of the early 1870s, late 1930s, and middle 1990s.

5. From the steady decrease of the rotational velocity of the Earth that set in in Dec. 2003, it can reliably be concluded that **the mean Earth temperature will decrease again in 2010 for the duration of three decades** as it did from 1872 to 1913 and from 1942 to 1972.

6. The RSS AMSU satellite measurements show that the global temperature has not increased since 2001 despite the enormous worldwide CO₂ emissions. Since 2006 it has been decreasing again.

II. Physical explanation for the strong correlation between fluctuations of the rotational velocity and changes of the mean surface temperature of the Earth

Despite its great successes, the gravitational theory of the great physicist Albert Einstein, **General Relativity**, (which is of a purely geometric nature and is totally incompatible with the highly successful quantum theory) **must be discarded** because this theory is completely irreconcilable with the extremely large energy density of the vacuum that has been accurately measured in the Casimir experiment.

Seacon Theory, a new theory of gravitation based on quantum mechanics that was developed eight decades after General Relativity, not only covers the well-known Einstein-effects but also **shows up half a dozen post-Einstein effects** that occur in nature. From a humanitarian standpoint, the most important super-Einsteinian physical phenomenon is the generation of small-amplitude longitudinal gravitational waves by the motion of the supermassive bodies located at the center of our galaxy, their transmission throughout the Galaxy, and the action of these waves on the Sun, the Earth and the other celestial bodies through which they pass. **These vacuum density waves**, which carry with them small changes in the electromagnetic properties of the vacuum, **occur in an extremely large period range from minutes to millennia**.

On the Sun, these vacuum waves modulate the intensity of the thermonuclear energy conversion process within the core, and this has its effect on **all** physical quantities of the Sun (this is called solar activity). This in turn has its influences on the Earth and the other planets. In particular, the solar wind and the solar magnetic field strength are modulated which results in large changes in the intensity of the cosmic radiation reaching the Earth. Cosmic rays produce condensation nuclei so that the cloud cover of the atmosphere and the Earth albedo also change.

On the Earth, the steady stream of vacuum density waves produces parts-per-billion changes in a large number of geophysical quantities. The most important quantities are the radius, circumference, rotational velocity, gravitational acceleration, VLBI baseline lengths, and axis orientation angles of the Earth, as well as the orbital elements of all low-

earth-orbit satellites. **All of these fluctuations have been measured.**

Irrefutable evidence for the existence of this new, super-Einsteinian wave type is provided by the **extremely close correlation between changes of the mean temperature and fluctuations of the mean rotational velocity of the Earth.** (see Fig. 2.2 of www.fao.org). Einsteinian theory **cannot explain this amazing correlation** between two physical quantities that seem to be completely unrelated.

While the rotational velocity of the Earth and the thermonuclear energy conversion process on the Sun react simultaneously to the passage of a vacuum density wave, a time span of 6 years is needed for the energy to be transported from the core of the Sun to the Earth's atmosphere and for the latter's reaction time.

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1958. Diploma of Aeronautical Engineering, Royal Melbourne Institute of Technology.

1960. B.Sc. (Physics) Degree from the University of Melbourne.

1979. Ph.D. Degree in Engineering from the University of Darmstadt.

1961 - 1996 Various leading positions in the German Aerospace industry.

1997- Retirement.