

# Geoengineering has wrong target!

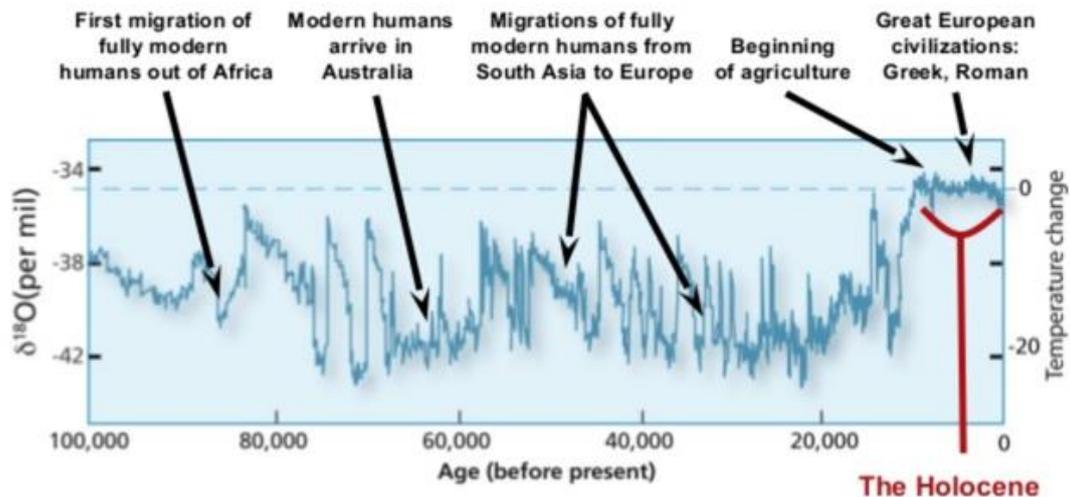
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Instead of repelling sunrays, geoengineers should pay attention to advanced electro-magnetism. In theory this approach should offer less dangerous methods for long-range balancing of astrogeophysics.

Keywords: geoengineering, radiant energy, solar activity-volcanic/seismic activity relation

Early warnings about fragile character and variability of Earth's climate (Tilak, 1903; Milankovich, 1920; Velikovsky, 1950, 1955; Eliade, 1954; de Santillana and von Dechend, 1969) has been not conceptually recognised by academia until seminal paper „*Variations in the Earth's Orbit: Pacemaker of the Ice Ages*” appear in 1976 (Hays et al.).

Earth's climate in last 100 000 years typically has been cold and highly variable (fig.1) so warm and stable climate in Northern hemisphere should be viewed as an artifact likely resulted due to submerging of bottom of Atlantic ocean and creation of large oceanic currents.

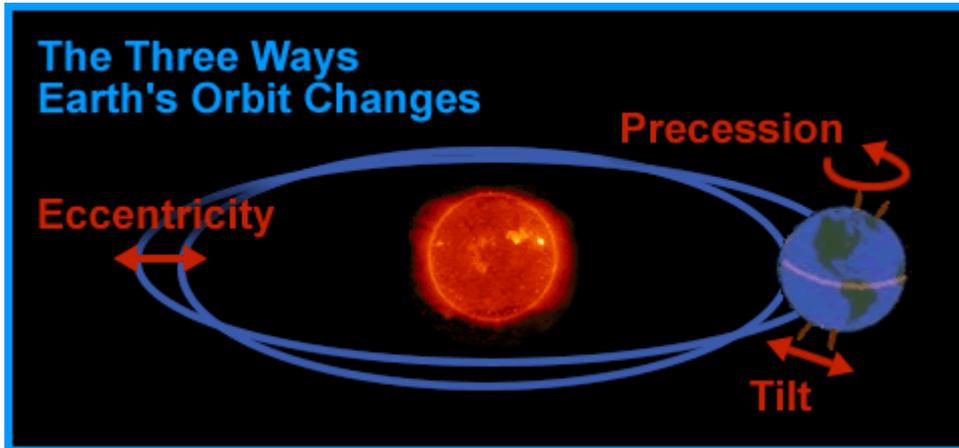


**Fig.1 North hemisphere temperature changes during the last 100 000 years.**  
Credit: <https://conscioustourism.wordpress.com>

Needless to remember, that scientists in fact have no idea about 1)how these large oceanic rivers function, 2)how necessary orbital changes for 100 000 year Milankovitch cycle originate and 3)why here are changes in dominant position between different cycles of glaciation in recent past (Wiki).

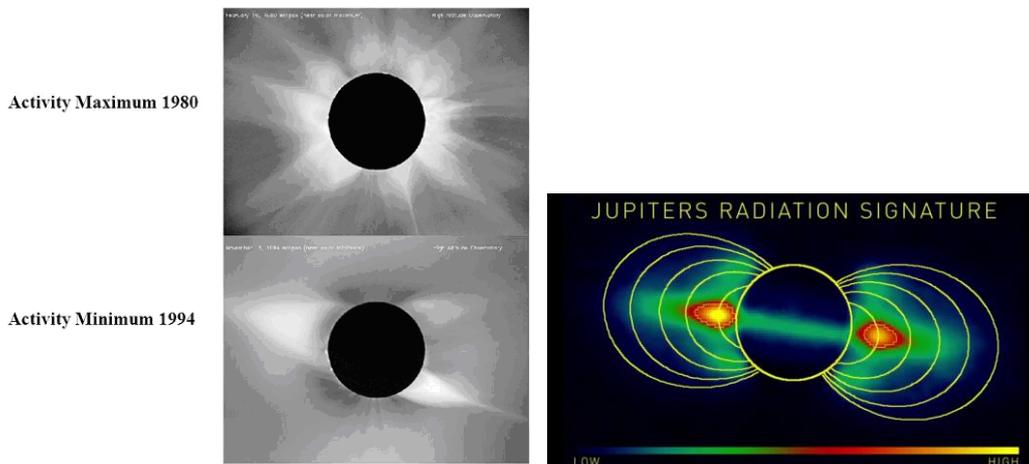
Climate modification (geoengineering), as one can conclude from open sources, mainly is about blocking of sunrays (Lukacs, 2017). As a remedy for such narrow-minded reasoning I can offer 1)phenomenon of Milankovitch cycles of glaciation and 2)solar activity-seismicity/volcanism relation.

**Milankovitch cycles** (fig.2) are accepted in geophysics, initial explanation of mechanism by temperatures failed.



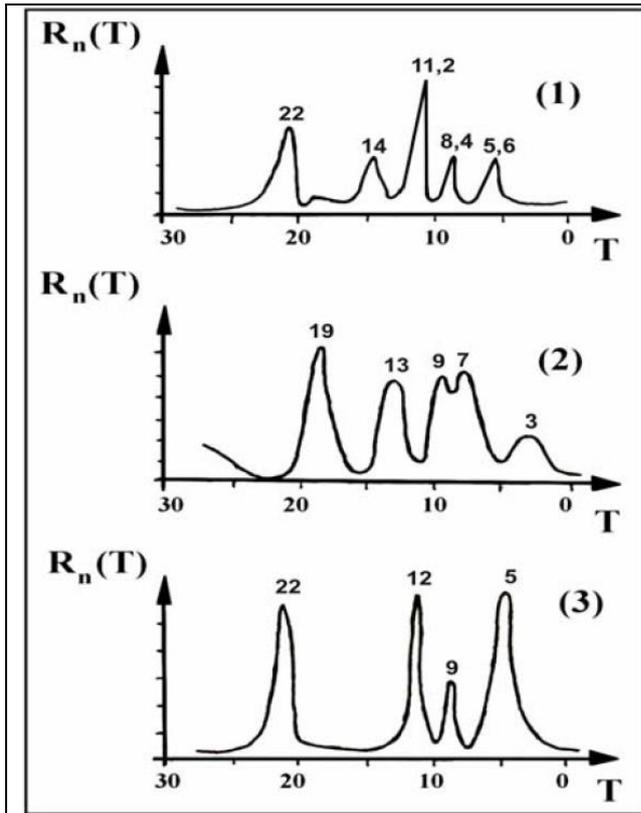
Perhaps most easy explanation here can be- interaction of hypothetical equatorial radiation of the Earth and the Sun.

In fact, equatorial radiations of Sun, Jupiter and (indirectly) Earth had been detected. See for example fig.3.



**Fig.3. (Left) Solar corona during high and low solar activity cycle.** Credit: B. C. Low High Altitude Observatory National Center for Atmospheric Research. **(Right) Jupiter’s equatorial radiation.** Credit: JUNO mission.

**Solar activity- seismicity/volcanism relation** (figs.4,5) is interesting in many ways. In data sometimes can be observed certain phase-lag when peak of volcanic/seismic activity follows that of solar activity.

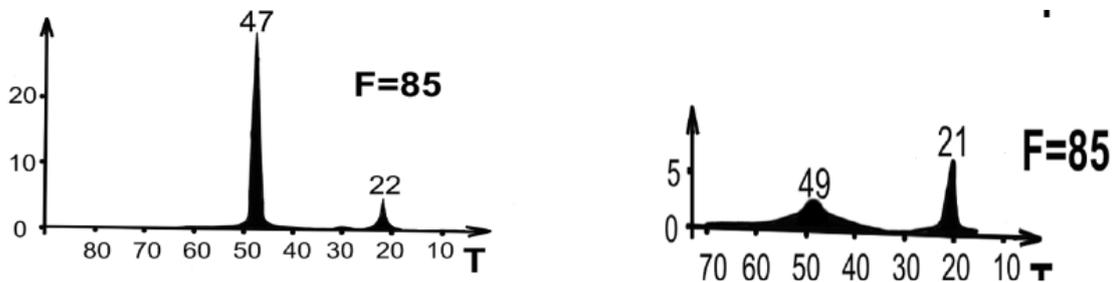


**Fig.4 Solar activity- seismicity relation.**

1– periodogram of changes of Wolf numbers;

(2), (3) – periodograms of seismic activity, for earthquakes, respectively of “CR” and “OI” types with  $M < 7$ , for the period from 1902 to 2000.

From Khain and Khalilov, 2008.



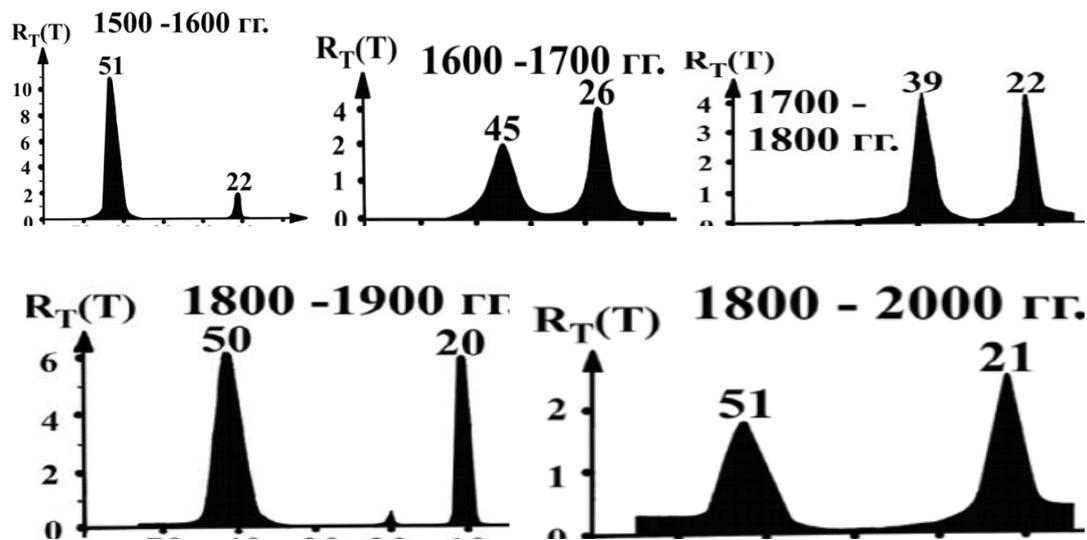
**Fig.5 Solar activity- volcanism relation.** Periodograms of eruptions of two types of volcanoes 1800- 2000. From Khain and Khalilov, 2008A.

Intriguing is 47-52 year peak in periodogram (fig.5) of volcanic activity. This should be caused by vortical activity of Jovian planets. Indeed, mathematically we have:

Jupiter cycle: **11.9** years

Saturn cycle: **29.5** years

Two Saturn cycles minus one Jupiter cycle = **47.1** years. Logically for this viewpoint we can see changes between magnitude and position of two peaks in periodograms during different periods of time (fig.6). Disturbing effect to cyclicity of volcanism from Maunder minimum and even before it can be observed.



**Fig. 6. Solar activity- volcanism relation.** Periodograms (years) of eruptions of same type of volcanoes in different times. From Khain and Khalilov, 2008A.

Thus „blocking of sunrays” as a remedy for growing climate instability is naive and (in long term) dangerous path. Earth’s climate is governed by advanced electromagnetism (radiant energy). Earth is radiating certain energy in space and when this flow is blocked certain overheating occur (cf. Shrair, 2018). Situation calls for rethinking of alternative physics and traditional eastern natural philosophy systems.

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- Wiki- see [https://en.wikipedia.org/wiki/100,000-year\\_problem](https://en.wikipedia.org/wiki/100,000-year_problem)