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Manifestation of unknown energy during planetary conjunction

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Abstract

The author provides analysis of the Earth and near space processes which are results of the shield effect occurring during the Sun-Venus conjunction.

1. Introduction

Synchronous analysis of the Solar system planets demonstrate transitory events of connection with the Earth, that cannot be explained by gravity or other known factors. These include changes of atmospheric pressure, volcano activation, seismic oscillations, etc. The high degree of recurrence of such extreme events leads to the hypothesis that an unknown source of energy exists. Verification of this hypothesis required a special approach.
Theoretically, the method is based on the analysis of behavior of certain sensitive indicators of near space and the state of the Earth during its upper conjunction with Venus, when the Sun may shield hypothetical radiation of this planet. The choice of Venus as a test object is predetermined by three reasons: (a) the almost circular shape of the orbit providing constant gravitation background; (b) the short orbital period allowing for sufficient information gathering; (c) the very weak magnetic field excluding its effects at distances of 0.27-1.73 a.u.
The moment of conjunction was estimated using the Alcyone Ephemeris 3 software.

2. Cosmic ray modulation

The most informative characteristic of the near space conditions is the intensity of galactic cosmic ray. As shown in Fig. 1, cosmic radiation drastically decreases several days before the moment of conjunction, when Venus approaches the Sun.
It is noteworthy that this effect is in no way associated with Forbush decrease.

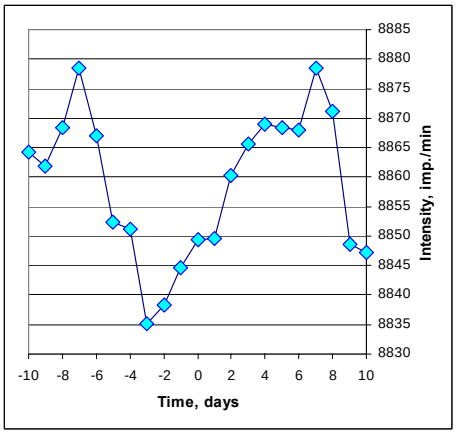

Figure 1. The intensity of galactic cosmic ray during Venus conjunction (1958-2010), imp./min
Source: calculated basing on the data of Moscow Neutron Monitor (http://helios.izmiran.troitsk.ru)

3. The Earth reaction

The Earth's reaction to the conjunction is reflected in a high speed of rotation, which is evidenced by reduced length of day (Fig. 2), as well as deviations of North Pole movements.

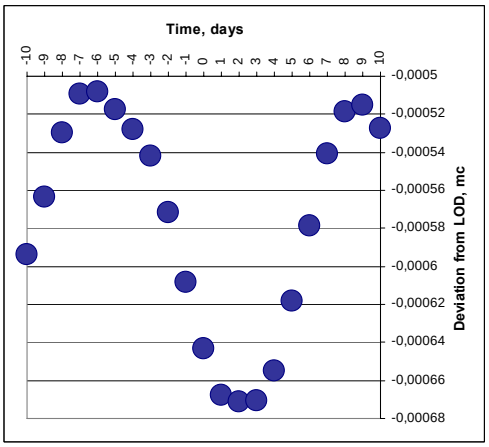

Figure 2. Length of day at the time of Venus conjunction (1962-2010), ms
Source: calculated basing on the data of IERS (http://www.iers.org/IERS)

The magnetic field of the planet changes simultaneously (Fig. 3).

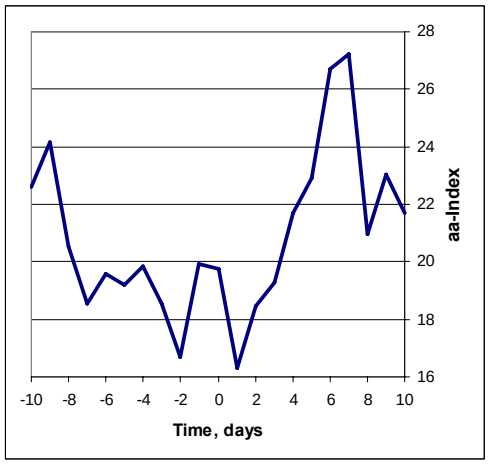

Figure 2. Global geomagnetic activity index at the time of Venus conjunction (1868-2010)
Source: calculated basing on the data of UK Solar System Data Centre (http://www.ukssdc.ac.uk)

4. The Earth's spheres response

As follows from the analysis of one of the longest time series of meteorological observations conducted at the Uppsala station (Sweden), the conjunction generates complex oscillations in the atmospheric pressure with two peaks (Fig. 4).

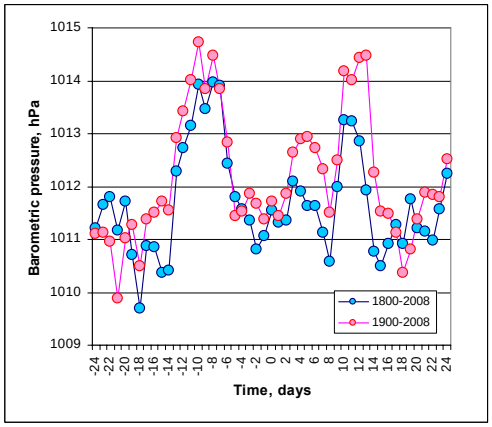

Figure 4. The atmospheric pressure at the time of Venus conjunction (Uppsala University, 1800-2008), hPa
Source: calculated basing on the data of Department of Earth Sciences - Meteorology, Uppsala University

Analyzing the time of occurrence of volcanic eruptions, we may conclude that the Venus conjunction induces a considerable increase of magma activity. Two waves are traced in the seismic activity oscillations; they are close in time to those registered in the atmosphere (Fig. 5).

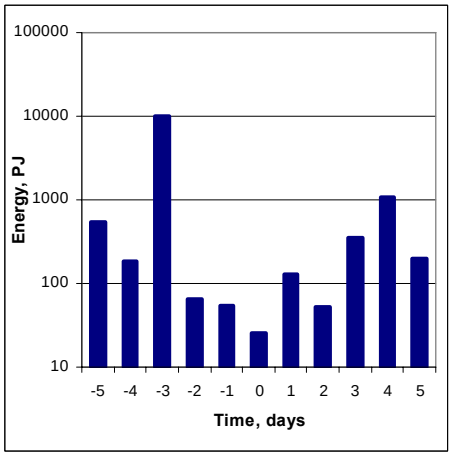

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Figure 5. The global energy release of earthquakes at the time of Venus conjunction (1970-2010), PJ
Source: calculated basing on the data of Incorporated Research Institution for Seismology (http://www.iris.edu)

And, finally, the oceanic response is described by a wave with two peaks and one minimum occurring a day before the moment of the conjunction (Fig. 6).

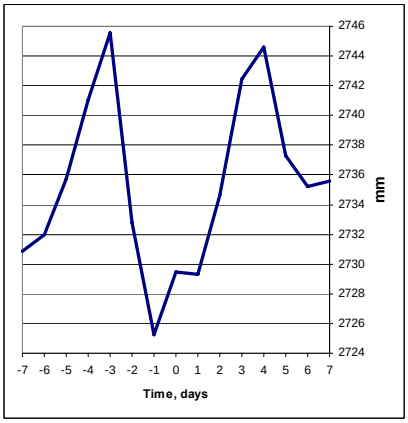

Figure 6. Sea level at San-Francisco at the time of Venus conjunction (1900-2010), mm
Source: calculated basing on the data of University of Hawaii Sea Level Center

5. Conclusion

Thus, an array of evidence suggest that the Venus upper conjunction is followed by energy perturbations, the nature of which is still to be elucidated. The very preliminary conclusion: this is the ether.