

Retraction Form

nature research

Manuscript Number (if applicable):

SREP-18-46620A / s41598-019-45588

Journal Name (if applicable):

Scientific Reports

Manuscript Title:

Oscillations of the baseline of solar magnetic field and solar irradiance on a millennial timescale

Author Name:

Zharkova V.V., Shepherd S.J., Zharkov S.I. and Popova E.

Retraction Statement Text (to be added by editor)

The Editors have retracted this article.

After publication, concerns were raised regarding the interpretation of how the Earth-Sun distance changes over time and that some of the assumptions on which analyses presented in the article are based are incorrect.

The analyses presented in the section entitled "Effects of SIM on a temperature in the terrestrial hemispheres" are based on the assumption that the orbits of the Earth and the Sun about the Solar System barycenter are uncorrelated, so that the Earth-Sun distance changes by an amount comparable to the Sun-barycenter distance. Post-publication peer review has shown that this

I agree with the retraction and the wording above.

I do not agree with this retraction (please give reasons for dissent)

Definitely, I do not agree with this retraction of our paper by the Deputy Editor R. Marszalek. The retraction is based on a single first paragraph in the last section of the paper containing only 150 words, or less than 3% of the paper, to visualise SIM effect. In archive paper 2002.06550 we show (in blue) http://mpee.northumbria.ac.uk/staff/slmv5/kinetics/zharkova_sim_sr19_subm2.pdf that this correction would not change the paper text, figures, conclusions or abstract.

I consider this retraction as a denial of new and independent research, violation of our IPRs and as a cover up of the important solar forcing previously missed in the terrestrial models, because of a reduction of the Sun-Earth distance with the rate of 0.00025 au per 100 years reported by us http://mpee.northumbria.ac.uk/staff/slmv5/kinetics/zharkova_paper3_erratum_subm2.pdf.

Print Name: Prof. Valentina Zharkova

Signature: _____ Date: 18 February 2020

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Retraction Form

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Manuscript Number (if applicable):

SREP-18-46620A / s41598-019-4558

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Print Name: Prof. Simon Shepherd

Signature: _____ Date: 19/02/2020

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Print Name: Dr. Elena Popova

Signature: _____

Date: 19/02/2020

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