

Interactive comment on “GAIA 5.0 – A five-dimensional geometry for the 3D visualization of Earth’ climate complexity” by Renate C.-Z.-Quehenberger et al.

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“GAIA 5.0 – A five-dimensional geometry for the 3D visualization of Earth’ climate complexity”

Reply to referee Bruce Clarke’s Interactive comment, by Renate Quehenberger 01, December 2020

Dear Prof. Clarke,

I am delighted that you’ve accepted to review our article and moreover about your overall positive feedback.

Thank you very much your suggestions concerning misspellings & for even checking the references.

I find especially your specific comments extremely valuable: ad 1) I am glad you found that the assumption the Earth could "deliberately" produce cyclones as mechanism for cooling oceanic water systems could be a "scientifically promising statement".

Thank you for encouraging us to strike out the aspect of Gaia as a "cognitive system" ! I am glad that I may quote your review and will add a paragraph with your references to Margulis and Lovelock's "Gaia likes it cool" quote. Note: In the article I was hesitating to emphasize it because exactly this remark got "expelled" from my contribution to the ECMWF newsletter (<https://www.ecmwf.int/node/19356>) earlier although the scientist who explained to me the data was touched himself by his observation & interpreted it this way while he explained to me his coupled system. Alas, he distanced himself from the article.

ad 2) your question: Is there a way to connect Gaia's planetary cognition more tightly to the 5-D framework of the discussion?

This question is very challenging and the answer to it surpasses momentarily the capacity of my mind since it asks for the origin of consciousness itself. Nevertheless I will try to connect Gaia's planetary cognition by finding arguments in some features of geometry of the Penrose Pattern which could eventually lead to assumptions that consciousness can be assigned to hyper-space.

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Discussion paper

