

Interactive comment on “Geosystemics and Earthquakes” by Angelo De Santis et al.

Angelo De Santis et al.

angelo.desantis@ingv.it

Received and published: 6 March 2018

First of all, we really thank Dr. Freund for the very positive comments about our paper. He recognizes our efforts to combine a wide range of observables for a deep investigation of the pre-earthquake conditions. He also clearly understands the difficulty to proceed along this path (see the prejudiced view by the other referee).

Second, we appreciate the clear explanation for the apparent paradox related whether the IR effects are with thermal effects.

To insert Dr. Freund clarification in our revised manuscript, we added the following statement in pag.25:

“According to Freund (2018), this is only an apparent paradox because any stimulated IR emission from vibrationally very "hot" systems is not a "clean" process. Eventually,

Printer-friendly version

Discussion paper



the system will "thermalize", meaning literally that each newly formed peroxy bond on the surface of the Earth will become a "hot spot", surrounded by a small halo where the neighboring atoms have actually increased their Joule temperature."

as a short extract of the Dr. Freund's comment itself , which is also directly referred, so any potential reader can directly read the more complete Freund arguments.

Please also note the supplement to this comment:

<https://www.solid-earth-discuss.net/se-2017-120/se-2017-120-AC1-supplement.pdf>

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2017-120>, 2018.

Printer-friendly version

Discussion paper

