

Interactive comment on “Pre-earthquake magnetic pulses” by J. Scoville et al.

F. Masci (Editor)

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Dear Professor Freund,

Thank you for your reply. I think that laboratory experiments on the generation of electric currents as a function of stress are essential in the search for possible precursory signals of earthquakes. I am following with great interest the scientific debate between you and Malcolm Johnston regarding the activation in rocks of charge carriers due to stress loading. I hope that this debate will continue in future papers. I note in your reply to my comment that there are the prerequisites for a possible comment on Dahlgren et al. (2014) [DJVN]. However, at present there are your previous laboratory experiments on rocks and the recent experiment of [DJVN]. As editor of NHESS, and also as a researcher, I have to take into account the results of all these experiments. I do not agree with you that referencing the paper of [DJVN] would do science a dis-

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service; their results have not yet been refuted. On the contrary, referencing papers (e.g., reports of magnetic precursors of Guam earthquake) the results of which have been proved wrong in recent reviews is a disservice to science (see your first version of Scoville et al., 2014 submitted to NHESS).

Sincerely,

Fabrizio Masci

References:

Dahlgren, P. R., M. J. S. Johnston, V. C. Vanderbilt, and R. N. Nakaba (2014), Comparison of the stress-stimulated current of dry and fluid saturated gabbro samples, *Bulletin of the Seismological Society of America*, 104, 2662-2672.

Scoville, J., J. Héraud, and F. Freund (2014), Pre-earthquake magnetic pulses, *Nat. Hazards Earth Syst. Sci. Discuss.*, 2, 7367-7381.

Interactive comment on *Nat. Hazards Earth Syst. Sci. Discuss.*, 2, 7367, 2014.