

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

F. Masci (Editor)

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Dear Authors,

Thank you for your reply. I'm sorry, but I do not agree with you. Figure 4b of Dahlgren et al. (2014) shows that stress-stimulated currents appear simultaneously to the stress loading in dry samples of gabbro. This is not the case for fluid-saturated samples (Figure 5b of Dahlgren et al., 2014). Conversely, I agree with you that the experiment of Dahlgren et al. (2014) does not fully match the physic-chemical condition of the Earth's crust, but also a merely dry crust does not match reality. However, I think that what reported in your reply to my comments could be discussed in a new section of the manuscript so as to show that your model also fits for a crust in which are present the fluids in the source zone of the pulses, as well as between the source and the observer. I do not think this is evident in the current version of the manuscript.

C3029

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.

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