

Interactive comment on “Pore formation during dehydration of polycrystalline gypsum observed and quantified in a time-series synchrotron radiation based X-ray micro-tomography experiment” by F. Fousseis et al.

M. J. Heap (Editor)

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Received and published: 26 January 2012

Dear Florian and co-authors,

I have now taken the time to go through your updated manuscript and figures. I have to say, I think that you have dealt with the reviewers' comments in an appropriate manner. Although, I did quite like the 3D figure! I will rubberstamp the acceptance after the following (very minor) comment has been considered: I feel that it is a shame that the recent, and pertinent, work of Nicolas Brantut and co-authors is not discussed

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anywhere in the paper. For example:

Brantut N., A. Schubnel, E. C. David, E. Héripré, Y. Guéguen and A. Dimanov, Dehydration-induced Damage and Deformation in Gypsum and Implication for Subduction Zone Processes, *J. Geophys. Res.*, in press.

Brantut N., J. Sulem, A. Schubnel (2011), Effect of dehydration reactions on earthquake nucleation: stable sliding, transient and unstable slip, *J. Geophys. Res.*, 116, B05304, doi:10.1029/2010JB007876.

Brantut N., A. Schubnel and Y. Guéguen (2011), Damage and Rupture Dynamics at the Brittle/Ductile Transition: the Case of Gypsum, *J. Geophys. Res.*, 116, B01404, doi:10.1029/2010JB007675.

Once considered (in the form of a rebuttal comment and, if applicable, a re-revised manuscript), your manuscript will be accepted. Thank you for considering Solid Earth.

Mike Heap

Interactive comment on Solid Earth Discuss., 3, 857, 2011.