Interactive comment on “Strain localization in brittle-ductile shear zones: fluid abundant vs fluid limited conditions (an example from Wyangala area, Australia)” by L. Spruzeniece and S. Piazolo

L. Menegon (Editor)
luca.menegon@plymouth.ac.uk

Received and published: 15 May 2015

Dear Authors,

Please do not hesitate to address the reviewers’ comments. I agree with the reviewers that your manuscript is in an excellent state and that only minor modifications and additions are required. In particular, I agree with both reviewers that the increased quartz content in the phyllonite is an intriguing feature that deserves a little more attention and possibly a more detailed discussion on its origin. On page 1426 line 3-6 you refer to an increase in quartz grain size due to continuous precipitation in cavities. However, if cavities are dispersed in a polyphase matrix, grain growth is expected to be suppressed by second-phase pinning. Perhaps CL analysis might be an option to verify if there are sequential growth stages in quartz. Kind regards,

Luca Menegon

Interactive comment on Solid Earth Discuss., 7, 1399, 2015.