

Interactive comment on “Correlation of core and downhole seismic velocities in high-pressure metamorphic rocks: A case study for the COSC-1 borehole, Sweden” by Felix Kästner et al.

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Interesting study that adds to the borehole / core in-situ lab experiments for metamorphic rock settings, which is important for extending the global calibration database for deeply buried metamorphic rocks and their understanding.

The study's aim was however (as firstly stated in the introduction) to improve the imaging of thrust zones and the understanding of the deeper orogenic processes and tectonic evolution? How does the manuscript relate to that project objective? I think this needs a small revision of the introduction and discussion sections to fit the study that in itself has a good closure.

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Attached is a list of suggestions and comments that hopefully will be of use to make this a good paper and contribution.

Looking forward to see the revised manuscript.

Please also note the supplement to this comment:

<https://www.solid-earth-discuss.net/se-2019-161/se-2019-161-RC1-supplement.pdf>

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2019-161>, 2019.

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