

Solid Earth Discuss., community comment CC1
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Comment on se-2021-56

Michael Behm

Community comment on "Two subduction-related heterogeneities beneath the Eastern Alps and the Bohemian Massif imaged by high-resolution P-wave tomography" by Jaroslava Plomerová et al., Solid Earth Discuss., <https://doi.org/10.5194/se-2021-56-CC1>, 2021

The introduction mentions "More recent tomographic studies from data recorded in regional passive seismic experiments with densely spaced stations resolved the Alpine subductions at finer grids and confirmed the suggested reversed polarity between the distinct Western and Eastern Alpine lower lithosphere roots (Lippitsch et al., 2003; Mitterbauer et al., 2011; Karousová et al., 2013; Zhao et al., 2016; Hua et al., 2017)."

At least for the study of Mitterbauer et al. this statement is wrong and/or misleading. Mitterbauer et al. interpret their data in the Eastern Alps to present a southward -to-vertical dipping European lithosphere, and explicitly reject the reversed-polarity hypothesis.