



Supplement of

Imaging structure and geometry of slabs in the greater Alpine area – a P-wave travel-time tomography using AlpArray Seismic Network data

Marcel Paffrath et al.

Correspondence to: M. Paffrath (marcel.paffrath@rub.de)

The copyright of individual parts of the supplement might differ from the article licence.

1 Supplementary Material

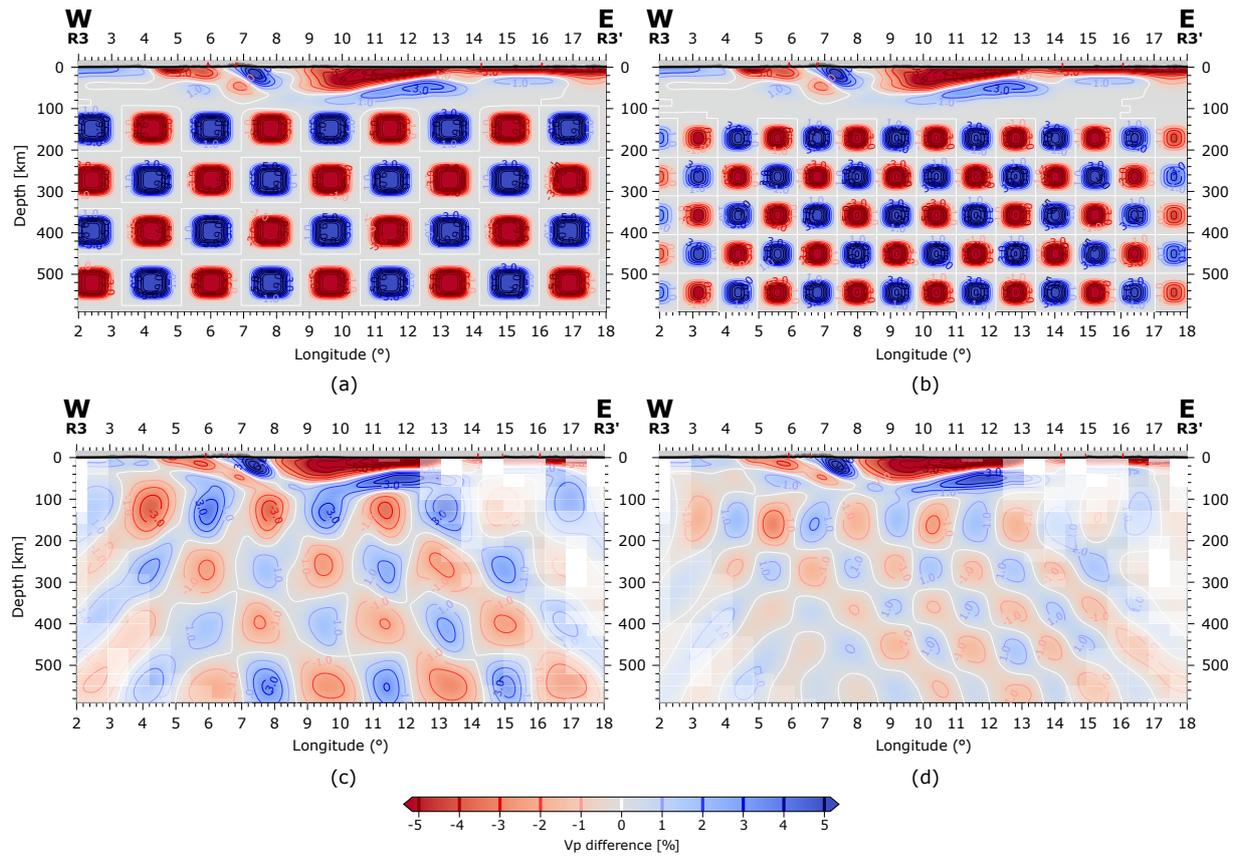


Figure S1. (a, b): Vertical profile through the two checkerboard test models of Fig. 7. (c, d): Test results on a great circle between 44.3°N , 2.0°E and 44.3°N , 18.0°E . Note the different amplitudes of the test anomalies along the profiles due to cut effects caused by the change in latitude.

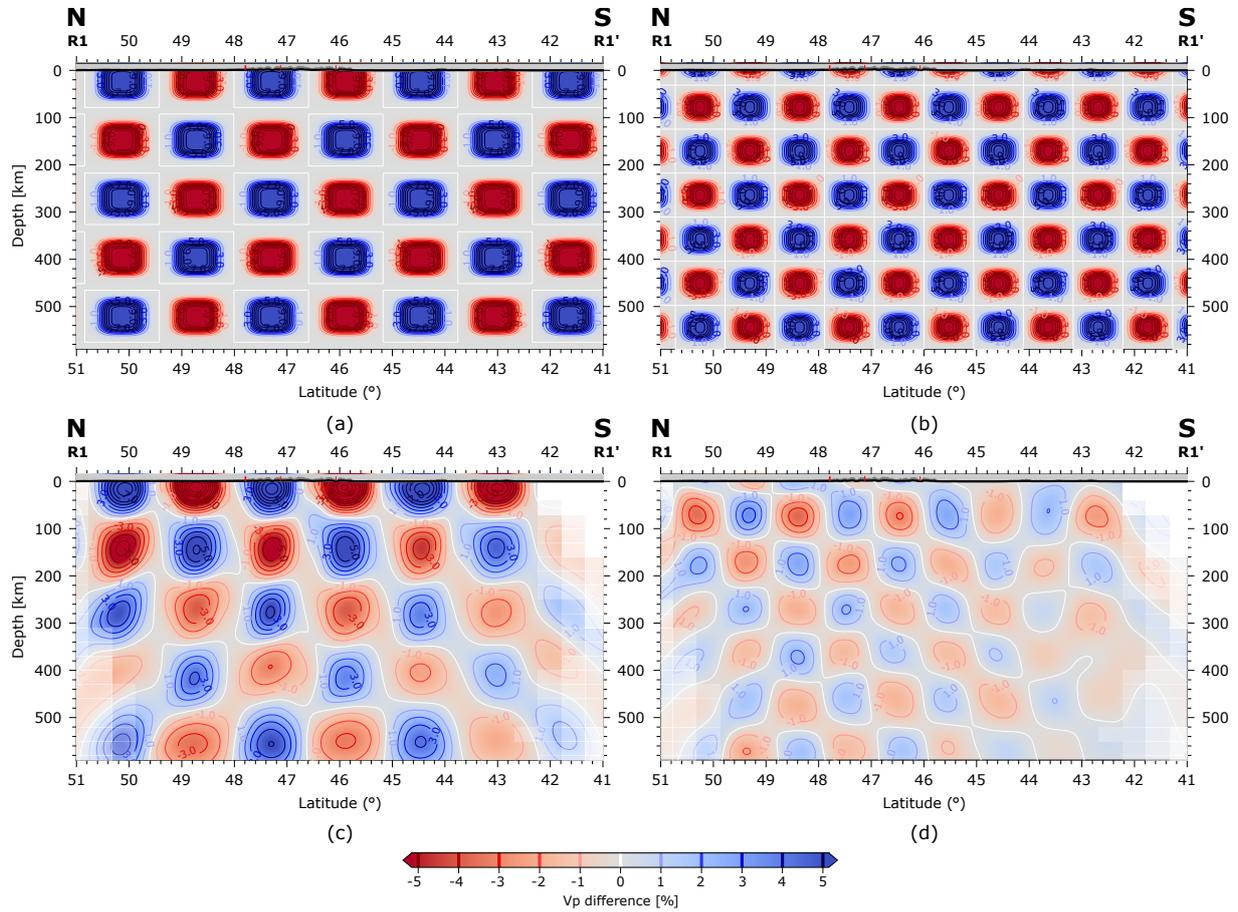


Figure S2. Vertical profile R1 at 11.5°E through the two supplementary checkerboard test models with test perturbations in the crustal domain (a, b). The inversion results after 12 inversion iterations (c, d) show a good lateral resolution, also in the crustal domain. For the $2 \times 2 \times 3$ checkerboard grid we see that even the small perturbations in the upper most 20 km can be recovered partly north of 46°N . However, we know that the vertical resolution in the crustal domain is not sufficient to fully reconstruct the heterogeneous crustal velocity distribution.

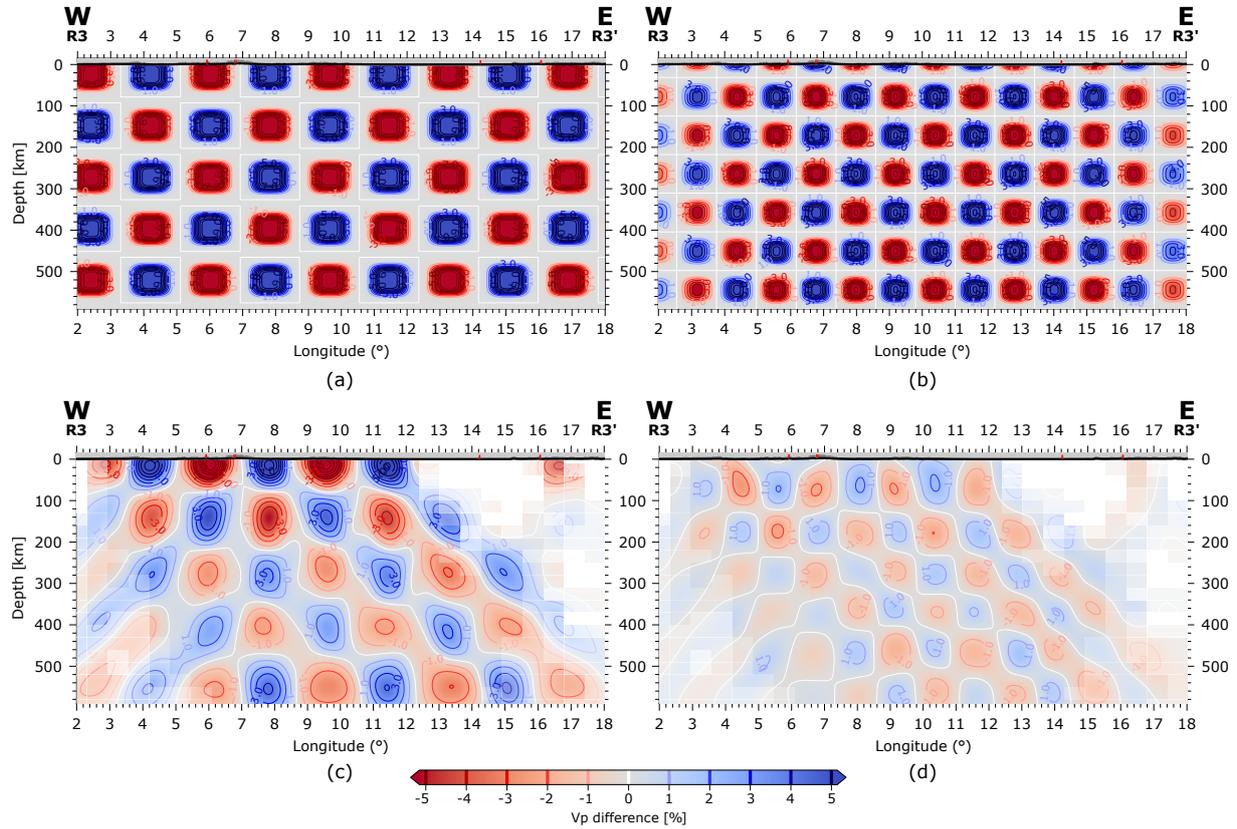


Figure S3. Vertical profile R3 as seen in Fig. 7 through the two checkerboard test models (a, b) and the test results (c, d) on a great circle between 44.3°N , 2.0°E and 44.3°N , 18.0°E . Note the different amplitudes of the test anomalies along the profiles due to cut effects caused by the change in latitude.