

Seismic imaging of the shallow crust beneath the Krafla central volcano, NE Iceland

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Contents of this file

Figures S1 to S3

Additional Supporting Information (Files uploaded separately)

Caption S1: P- and S-wave ray coverage of the same cross-sections as shown in Figure 3. They show the challenge of a mix-determined inversion problem. Areas with high ray coverage (darker colors) allow robust inversion results.

Caption S2: 3D animation of the Vp/Vs model obtained using the combined shot and earthquake datasets in the tomographic inversion.

Caption S3: (a-b) Results of the low-Vp/Vs (magma pocket) recovery test with vertical and horizontal cross-sections. The imposed model perturbation of Vp/Vs=1.63 is displayed as black rectangle. (c-d) Recovery test of a high-Vp feature resembling a structure underneath Leirhnjúkur and east of Hvannstóð. We perturbed the anomaly (black line) with +12%.