Supplemental Material for "Unexpected consequences of transverse isotropy"

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1. Figure S1 to S10

These figures present correlations among the VTI parameters for each of the crustal fabrics reported by Brownlee et al. (2017). As similar for Figure 6 in the main text, we construct a series of VTI models for each given fabric by the azimuthal averaging of an arbitrarily rotated elastic tensor (here the rotation is done with a 15-degree interval for each Euler angle for denser sampling).
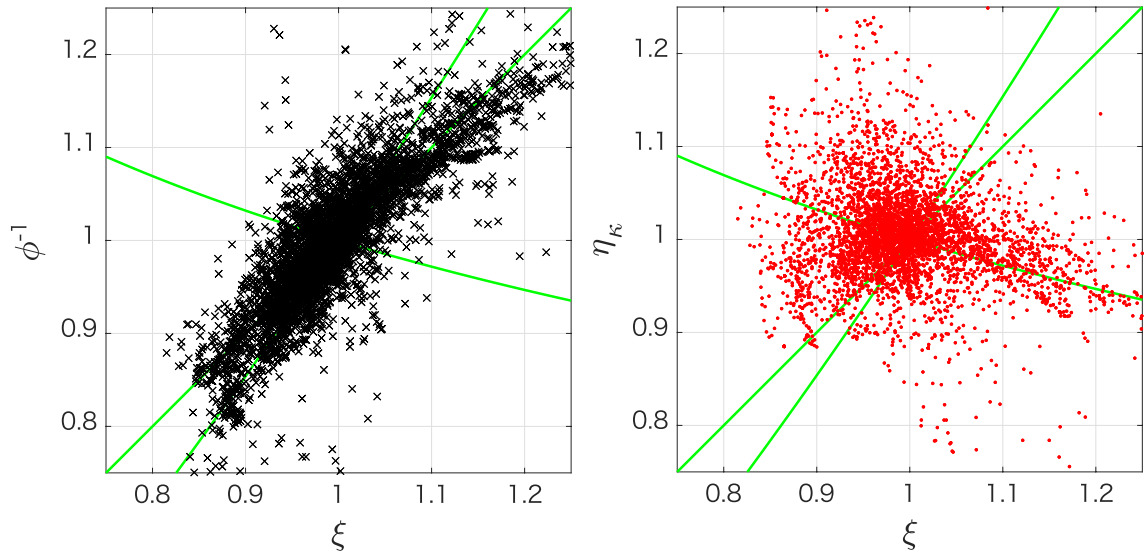
Figure S1: Correlation among the anisotropy parameters for crustal fabrics (Gneiss) of Brownlee et al. (2017): (left) S-anisotropy (ξ) *vs.* P-anisotropy (φ^{-1}) (black crosses), (right) S-anisotropy *vs.* the fifth parameter (η_κ) (red dots). Green lines are reference scalings with various indexes as in the main text.
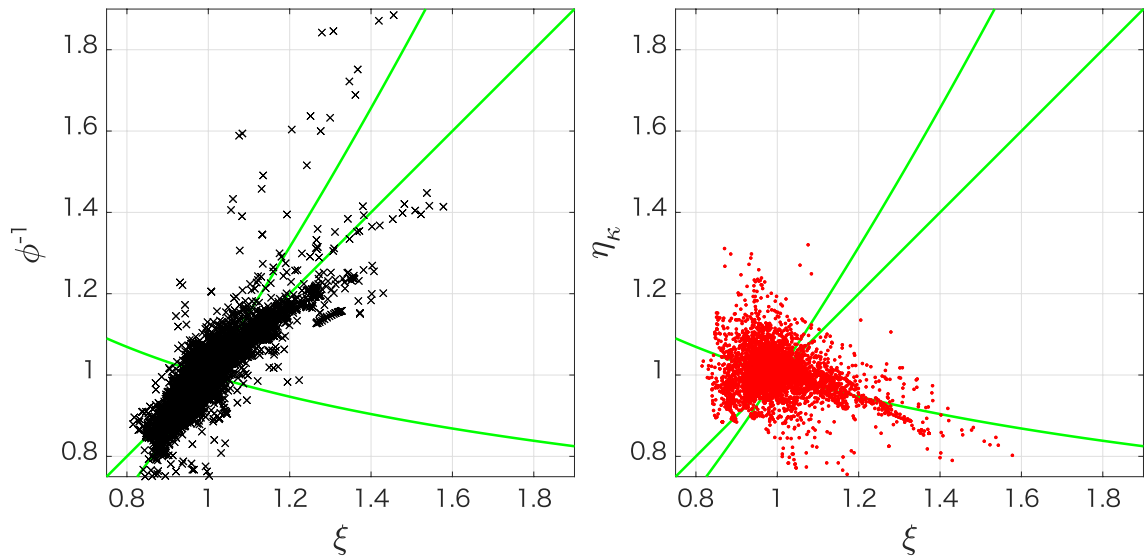

Figure S2: Same as Figure S1 but for a wider plotting range.
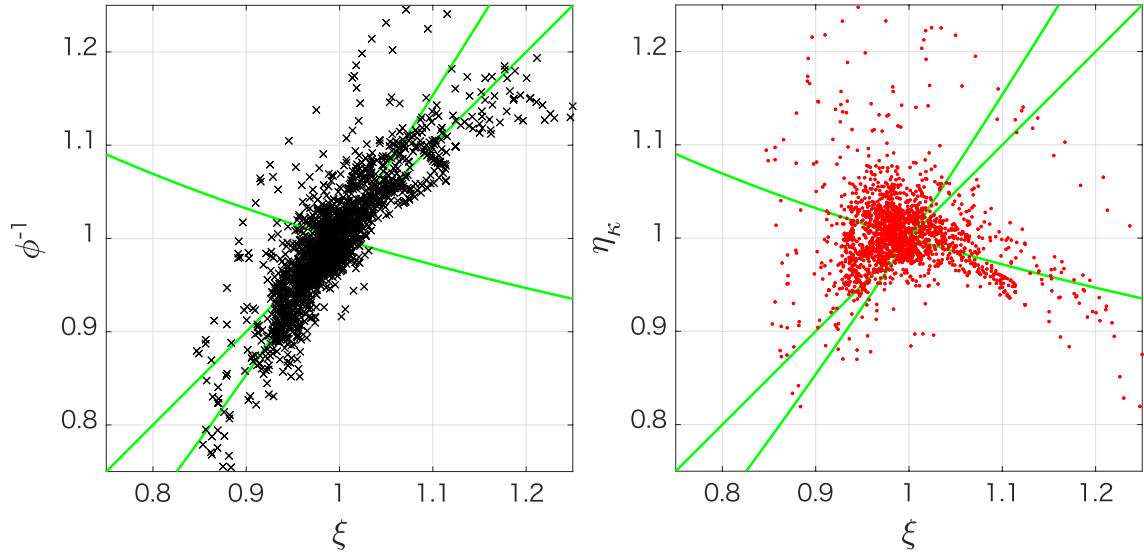
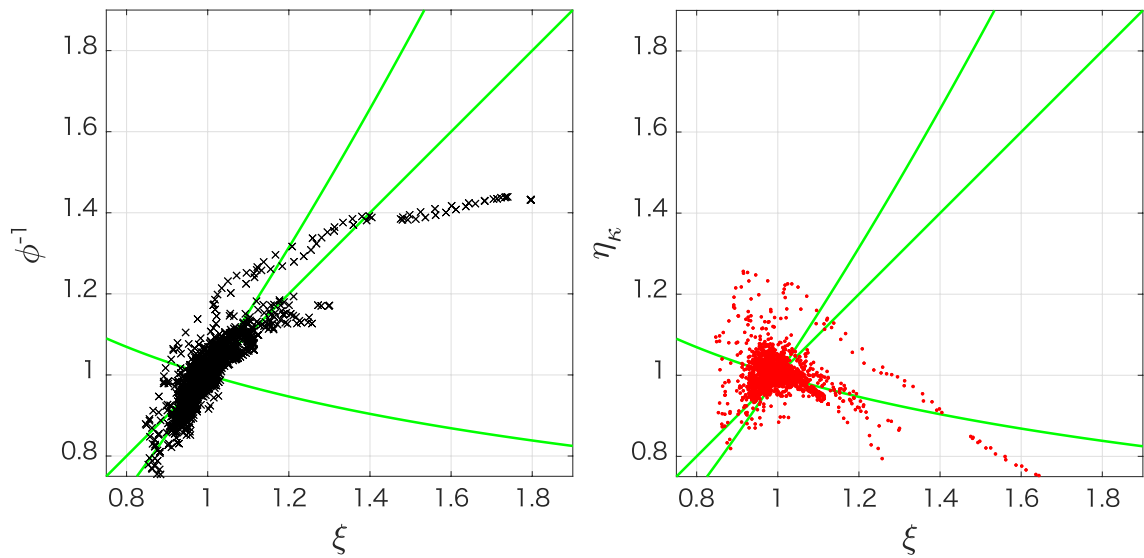Figure S3: Same as Figure S1 but for Schist of Brownlee et al. (2017).

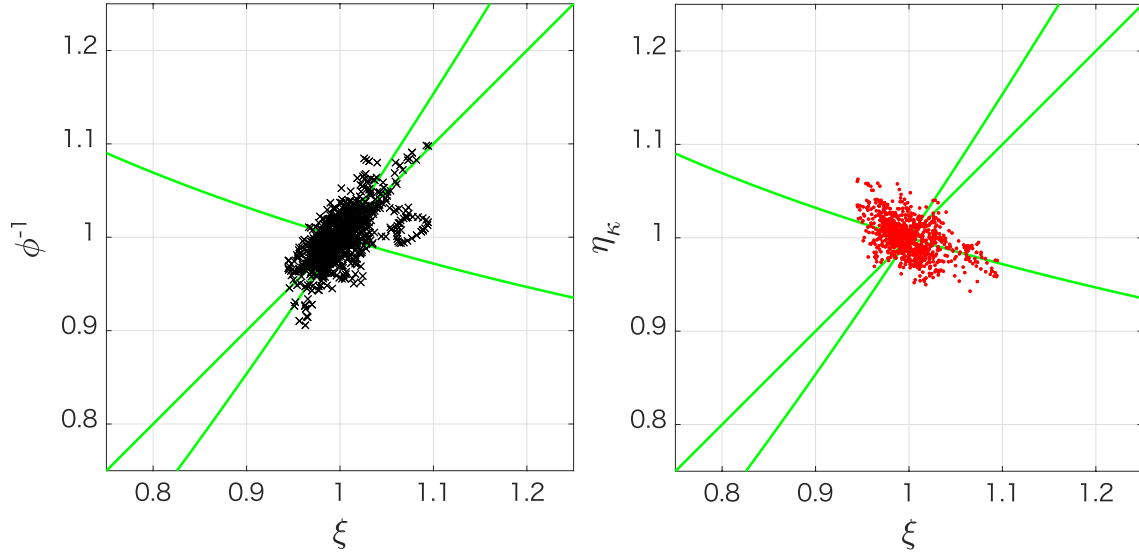Figure S4: Same as Figure S3 but for a wider plotting range.

Figure S5: Same as Figure S1 but for Plutonic rocks of Brownlee et al. (2017).
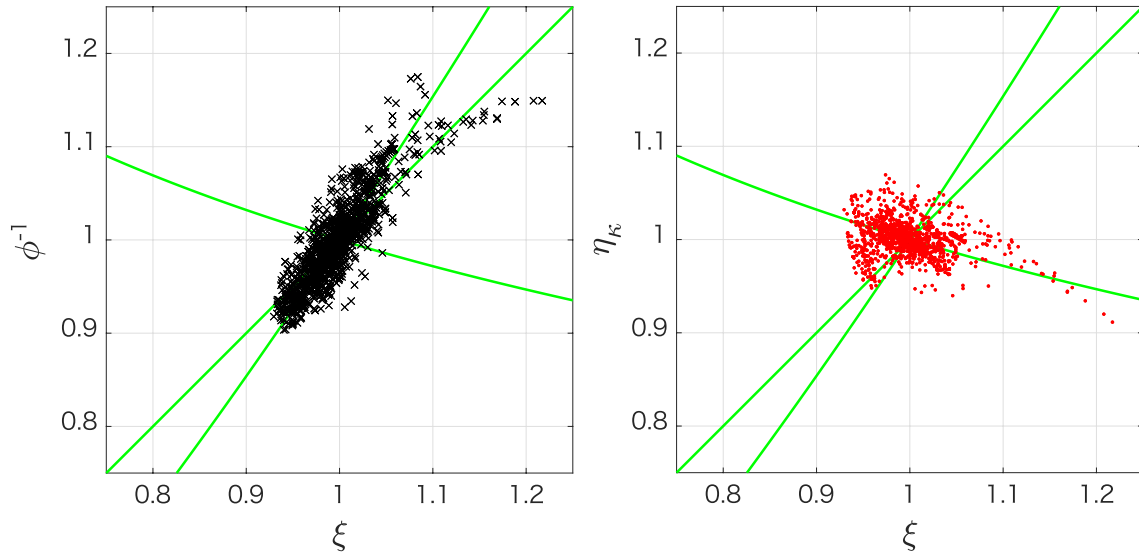

Figure S6: Same as Figure S1 but for Calcsilicate of Brownlee et al. (2017).
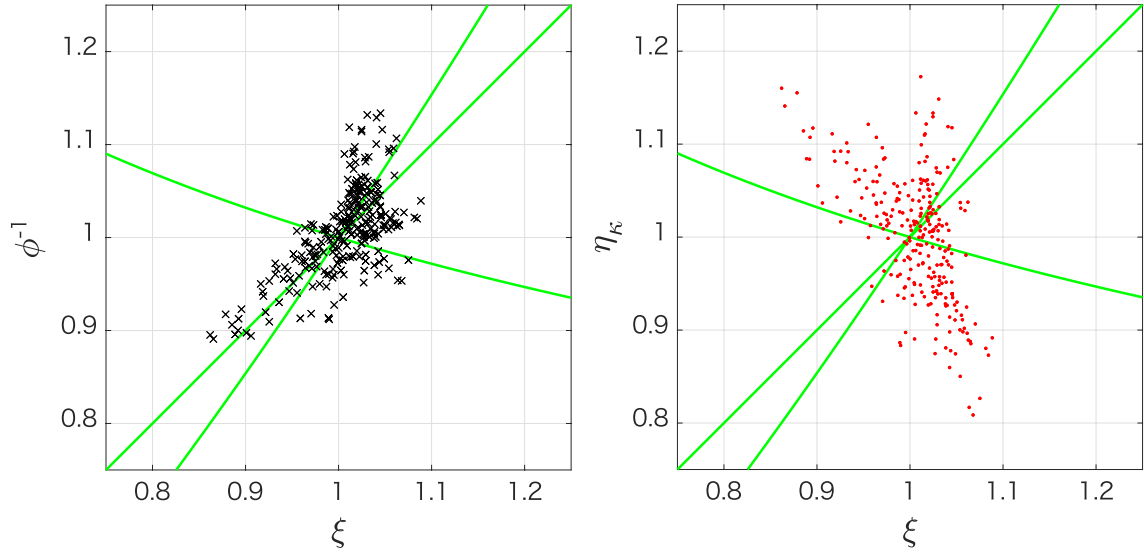
Figure S7: Same as Figure S1 but for Quartzite of Brownlee et al. (2017).
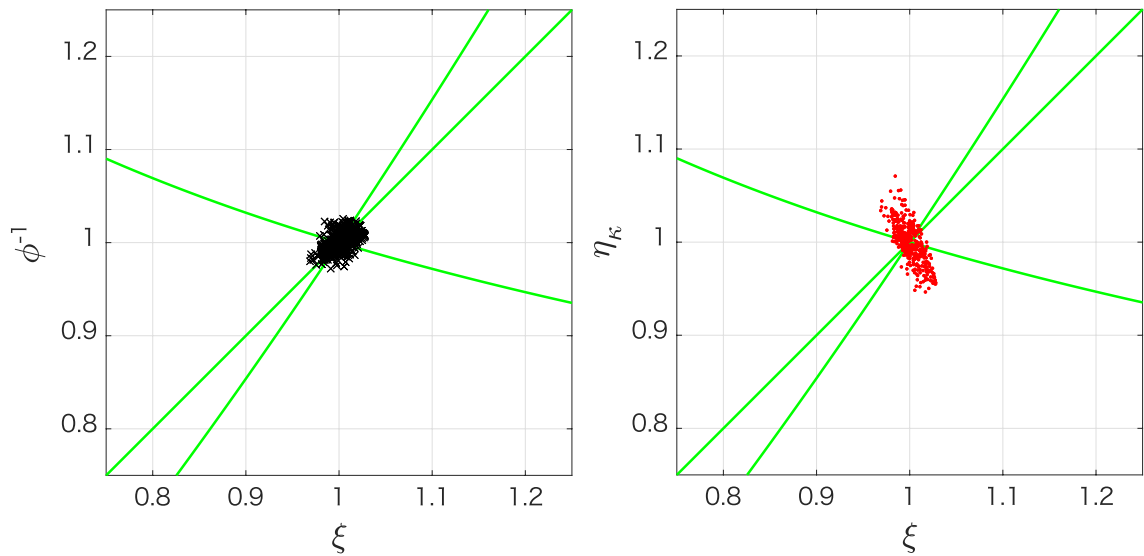

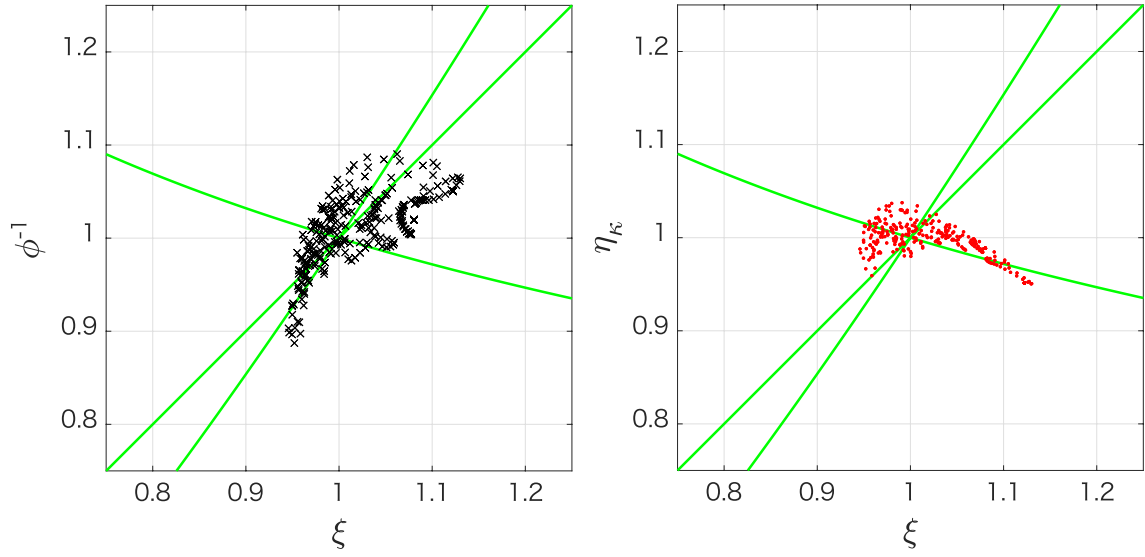Figure S8: Same as Figure S1 but for Sandstone of Brownlee et al. (2017).

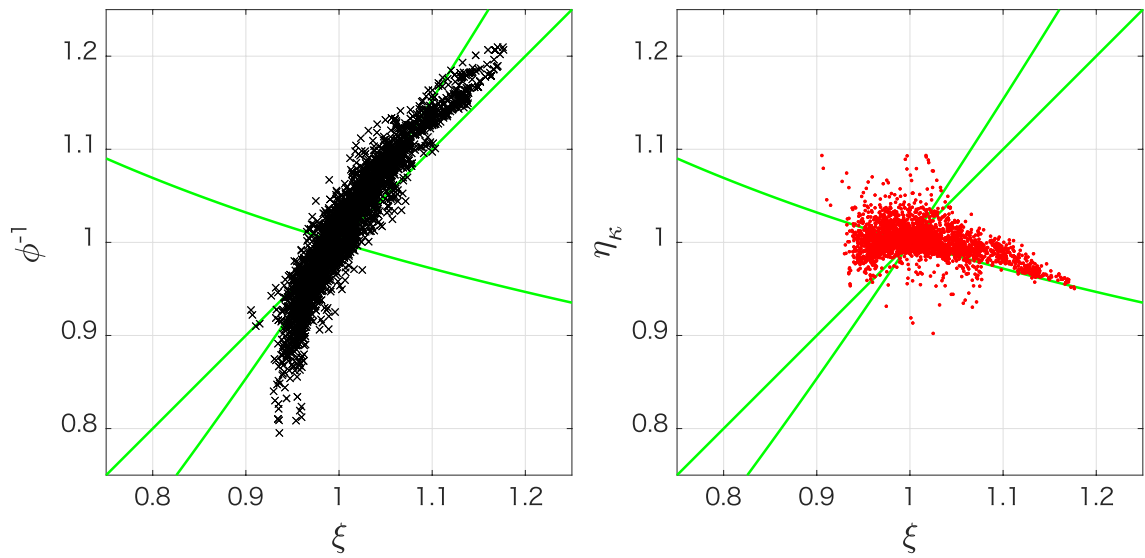Figure S9: Same as Figure S1 but for Granfels of Brownlee et al. (2017).

Figure S10: Same as Figure S1 but for Amphibolite of Brownlee et al. (2017).