Supplement of

Control of crustal strength, tectonic inheritance, and stretching/shortening rates on crustal deformation and basin reactivation: insights from laboratory models

Benjamin Guillaume et al.

Correspondence to: Benjamin Guillaume (benjamin.guillaume@univ-rennes1.fr)

The copyright of individual parts of the supplement might differ from the article licence.
Fig. S1: Interpreted pictures, principal stretches $\lambda_{\max}$, $\lambda_{\min}$ ($\lambda = 1$ represents no length change) and strain type after 4% of along-$y$ shortening for brittle models (a) BI10, (b) BI09, (c) BI05, (d) BI06, and (e) BI07: shortening (red), strike-slip (green) and stretching (blue), with intermediate, oblique deformation at intermediate colors. The corresponding amount of along-$x$ stretching is indicated at the top.
Fig. S2: Principal stretches $\lambda_{\text{max}}, \lambda_{\text{min}}$ ($\lambda = 1$ represents no length change) for models with a brittle crust after 12% of along-y shortening for (a) model BI10, and after 10% of along-x stretching for models (b) BI09, (c) BI05, (d) BI06, and (e) BI07, and for models with a brittle crust and two-stages of deformation (f) model BI01, (g) model BI08, and (h) model BI11. The corresponding amount of along-x stretching and/or along-y shortening is indicated at the top.
Fig. S3: Principal stretches $\lambda_{\text{max}}$, $\lambda_{\text{min}}$ ($\lambda = 1$ represents no length change) for models with a brittle-ductile crust and one-stage deformation: (a) model CE16, and two-stage deformation: (b) model CE17, (c) model CE18, and (d) model CE20. The corresponding amount of along-x stretching and/or along-y shortening is indicated at the top.