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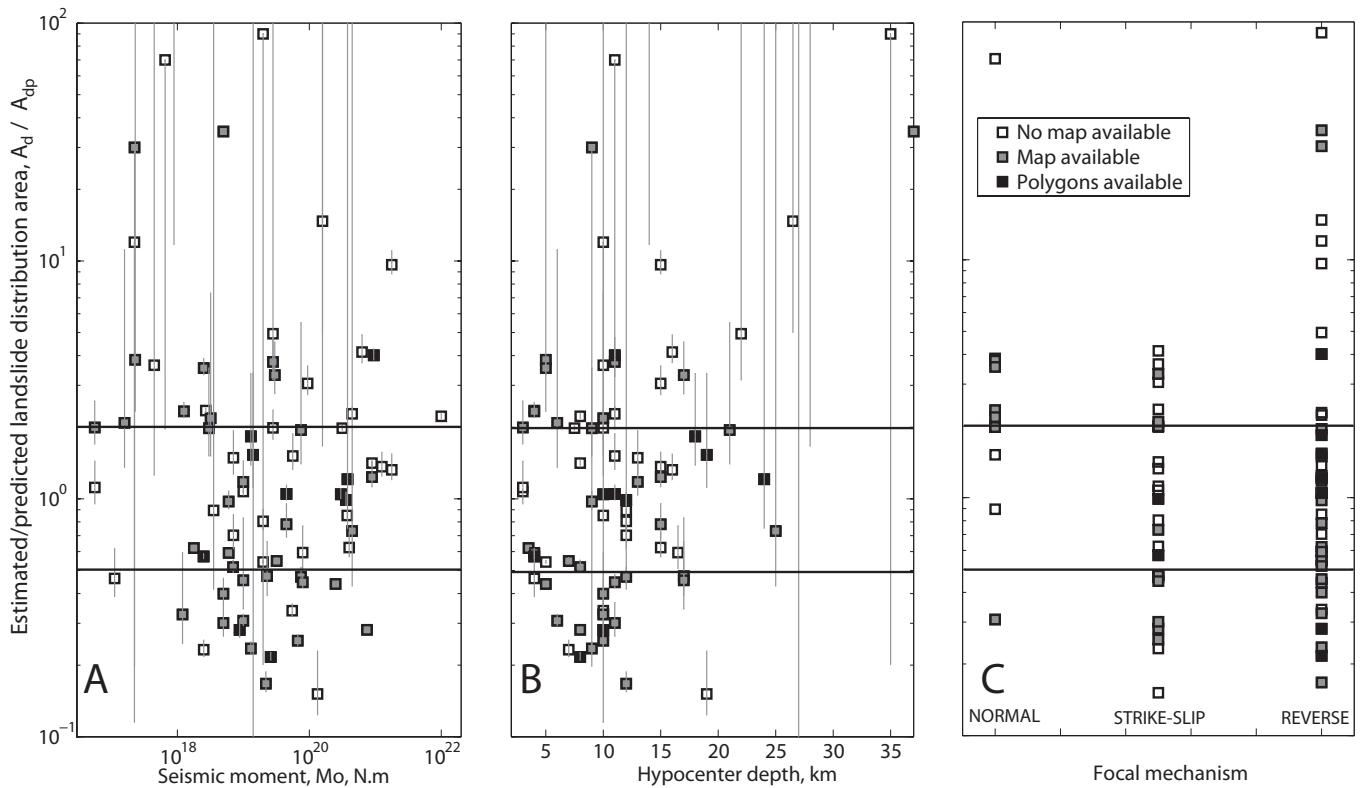

*Supplement of*

## **Prediction of the area affected by earthquake-induced landsliding based on seismological parameters**

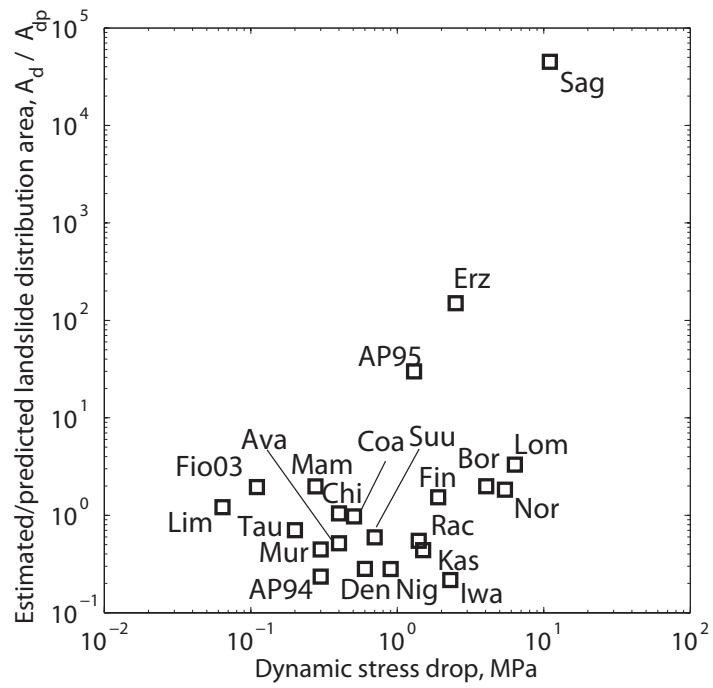
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**Supplementary Figure 1.** Landslide distribution area residuals (Estimated area over predicted area), plotted against seismic moment (A), hypocenter depth (B), and focal mechanism (C). Horizontal black lines delimit cases where the residuals are within a factor of 2 of a correct prediction (i.e., residual = 1). Grey vertical error bars indicates the variability in model prediction and residuals when varying the emission depth  $R_0$  within 25% of the hypocenter depth. For visibility these uncertainty ranges are not shown in (C).



**Supplementary Figure 2.** Landslide distribution area residuals (Estimated area over predicted area), plotted against earthquake dynamic stress drop. The three letters name codes are defined in Table 1. 1 MPa is a typical median stress drops value in large earthquake catalogue.