

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Ecoregion-specific effects of species richness on ecosystem resistance and recovery under individual and compound climate extremes. Linear regressions were fitted separately for each ecoregion. Species richness and stability metrics were $\log_2$ -transformed before analysis. The file reports regression coefficients for species richness, together with standard errors, t values, two-sided p values, and R^2 values.

File Name: Supplementary Data 2

Description: Model coefficients for the effects of biotic, soil, climate, and topographic predictors on resistance and recovery under compound and individual climate extremes. Coefficients were estimated using linear mixed-effects models. All predictor variables, including species richness and resistance when used as a predictor of recovery, were standardized before model fitting. The file reports standardized regression coefficients, standard errors, t values, and two-sided p values.

File Name: Supplementary Data 3

Description: Model coefficients for the effects of biotic, soil, climate, and topographic predictors on resistance and recovery under compound heat and moisture excess, compound heat and drought, and the corresponding individual extremes. Coefficients were estimated using linear mixed-effects models. All predictor variables, including resistance when used as a predictor of recovery, were standardized before model fitting. The file reports standardized regression coefficients, standard errors, t values, and two-sided p values.