Figure 1
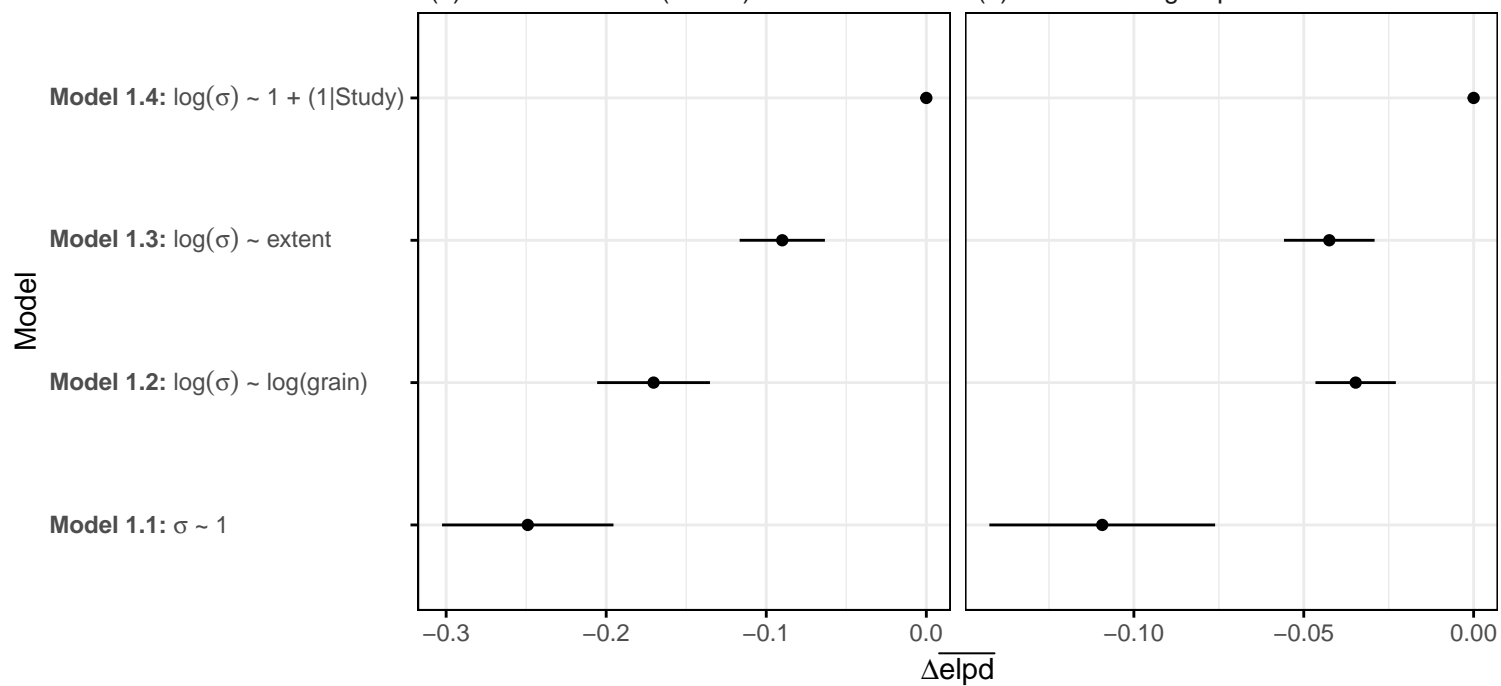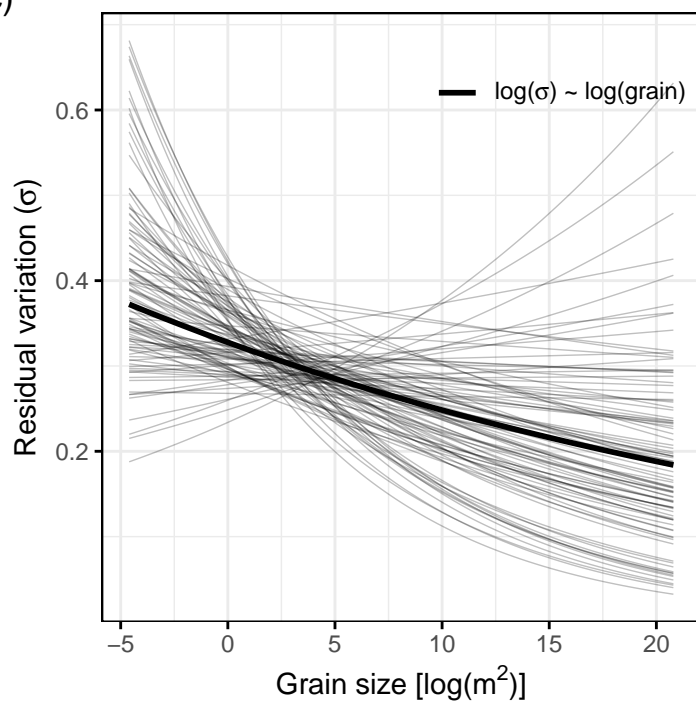
(a) Stratified k–fold (k = 10) cross validation

(b) Leave–one–group–out cross validation

Model 1.4: $\log(\sigma) \sim 1 + (1|\text{Study})$

Model 1.3: $\log(\sigma) \sim \text{extent}$

Model 1.2: $\log(\sigma) \sim \log(\text{grain})$

Model 1.1: $\sigma \sim 1$

Model

$\Delta\overline{\text{elpd}}$

(c) Residual variation (σ) — Grain size [$\log(m^2)$] — $\log(\sigma) \sim \log(\text{grain})$

(d) Residual variation (σ) — Extent [km^2]

n = 62, n = 18, n = 30, n = 31, n = 12, n = 37, n = 14

$(0-10)$, $[10-100)$, $[10^2-10^3)$, $[10^3-10^4)$, $[10^4-10^5)$, $[10^5-10^6)$, $[10^6-)$