Earth **Surface**
Dynamics

EGU

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Supplement of

Grain size dynamics using a new planform model – Part 1: GravelScape description and validation

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Figure S1: *Please scan the QR code to play the following video of GravelScape surface grain size fining for 5Myrs at steady-state.*
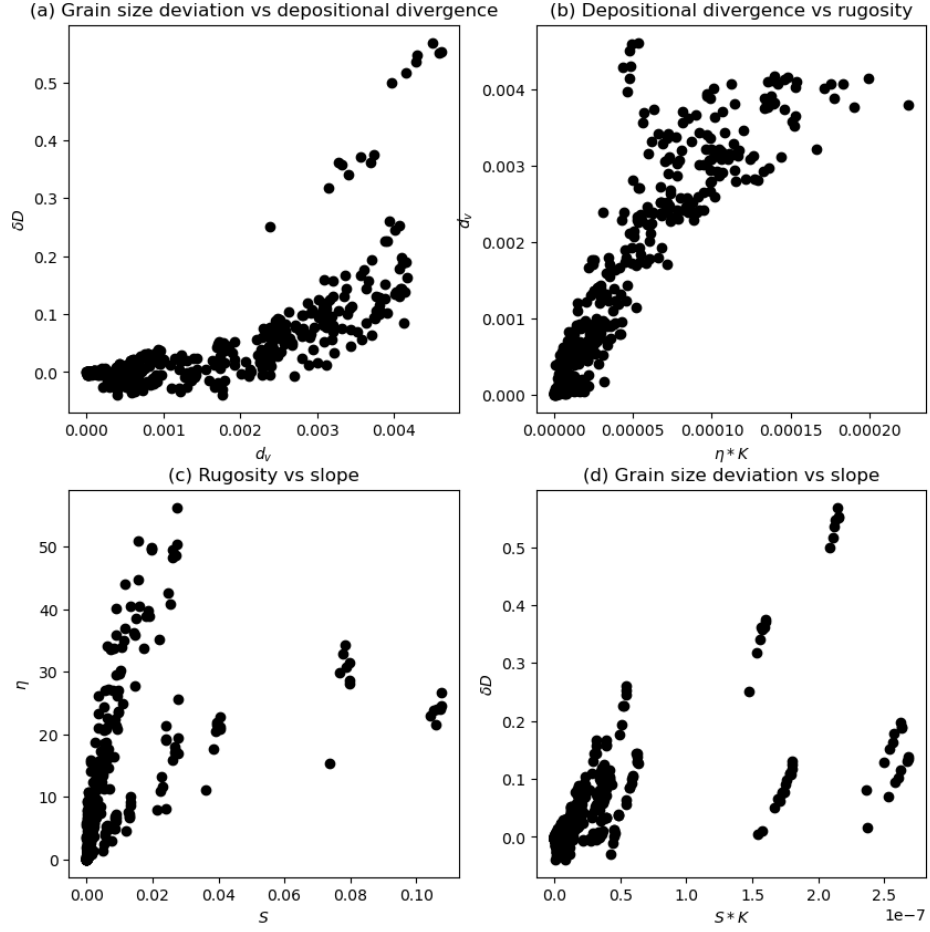
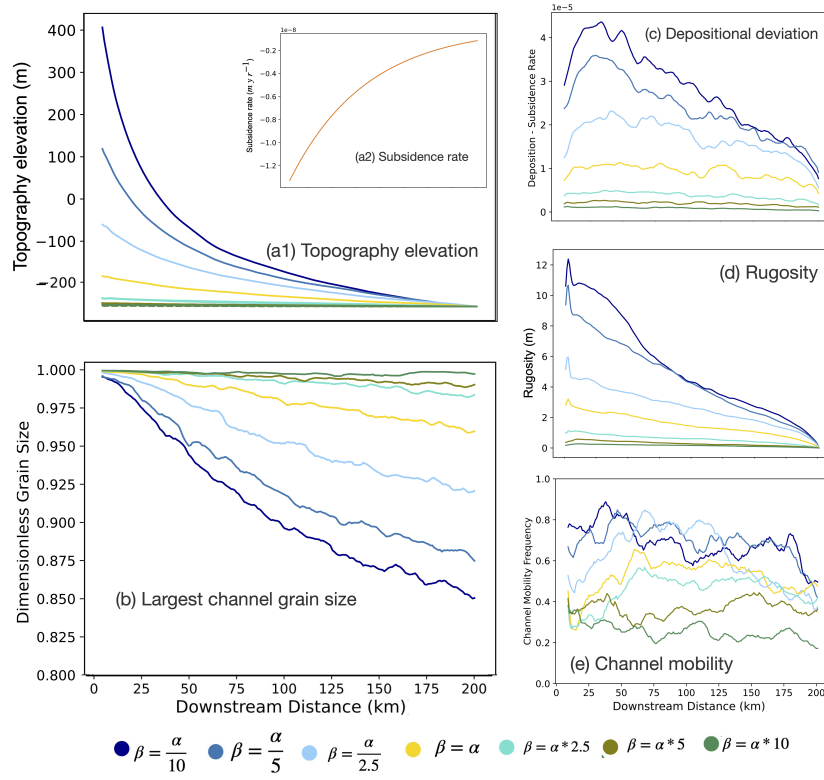**Figure S2:** *Correlations when not in log space.*

Figure S3: *Changing β with downstream distance preserved for topography (a1), underlying subsidence rate (a2), largest channel grain size (b), depositional deviation (c), rugosity (d), and channel mobility (e).*
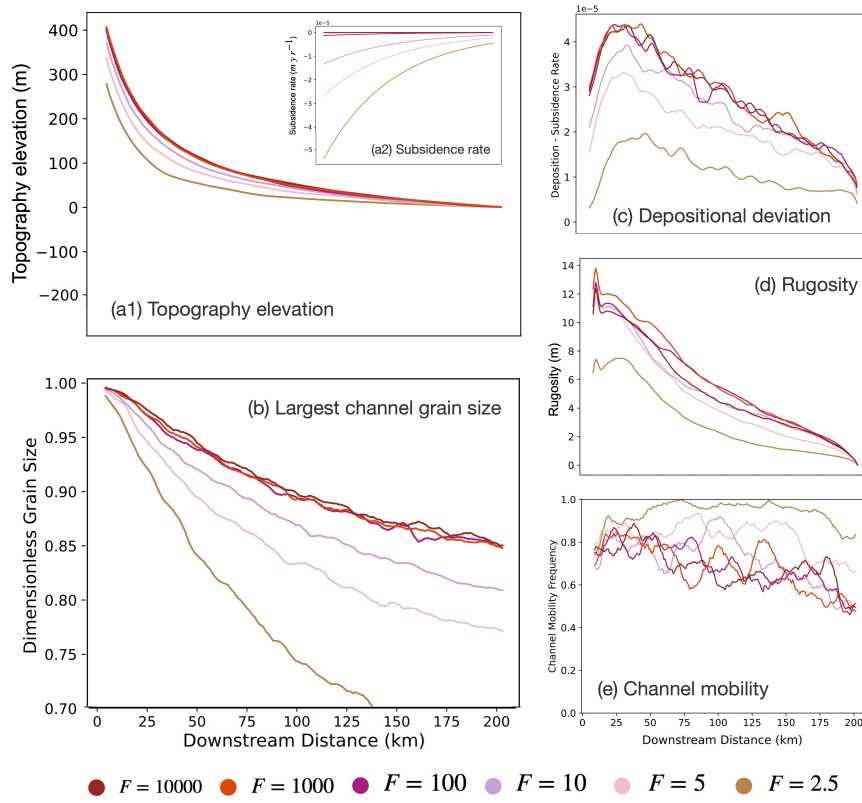
Figure S4: *Changing F with downstream distance preserved for topography (a1), underlying subsidence rate (a2), largest channel grain size (b), depositional deviation (c), rugosity (d), and channel mobility (e).*