

Model parameter	Unit	Value
Uplift (U)	mm yr ⁻¹	0.2
Fluvial erodibility (k_e)	m yr ⁻¹ (kg m ⁻¹ s ⁻²) ⁻¹	7.00×10^{-6}
Critical shear stress (τ_c)	Pa	58
m, n	–	0.6/0.7
Base diffusivity (K_b)	m ² yr ⁻¹	0.02
Manning number (fully vegetated, n_{VR})	–	0.6
Manning number (bare soil, n_S)	–	0.01
Reference vegetation cover (V_R)	%	100
w	–	1
Alpha	–	0.3
p	–	1
Transient vegetation cover amplitude ($\pm dV$)	%	10