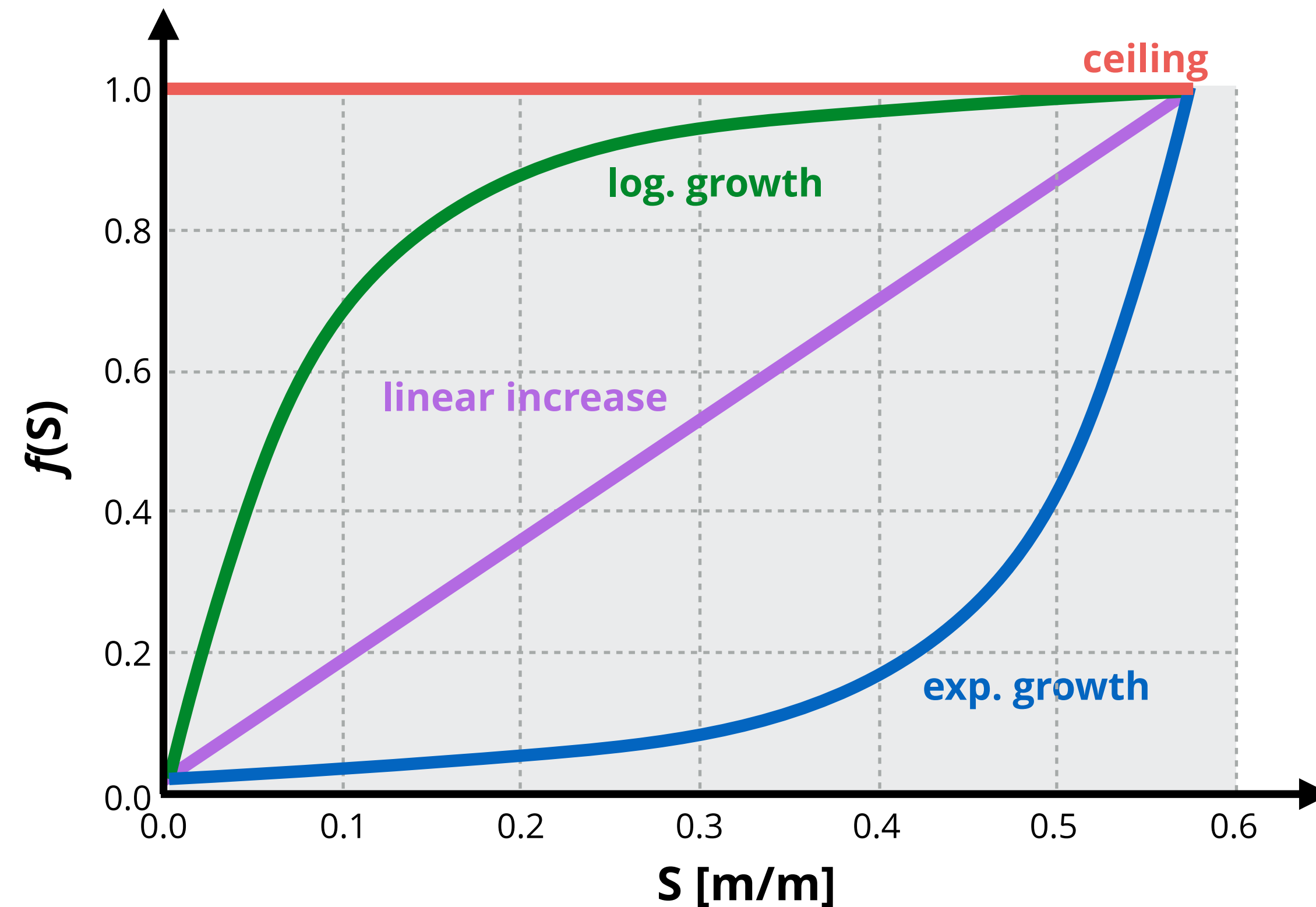


Detachment + tool & cover formulations

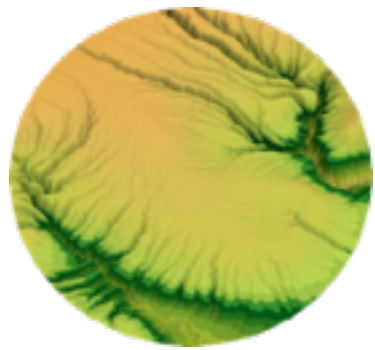
+ Gravel production function based on slope angle



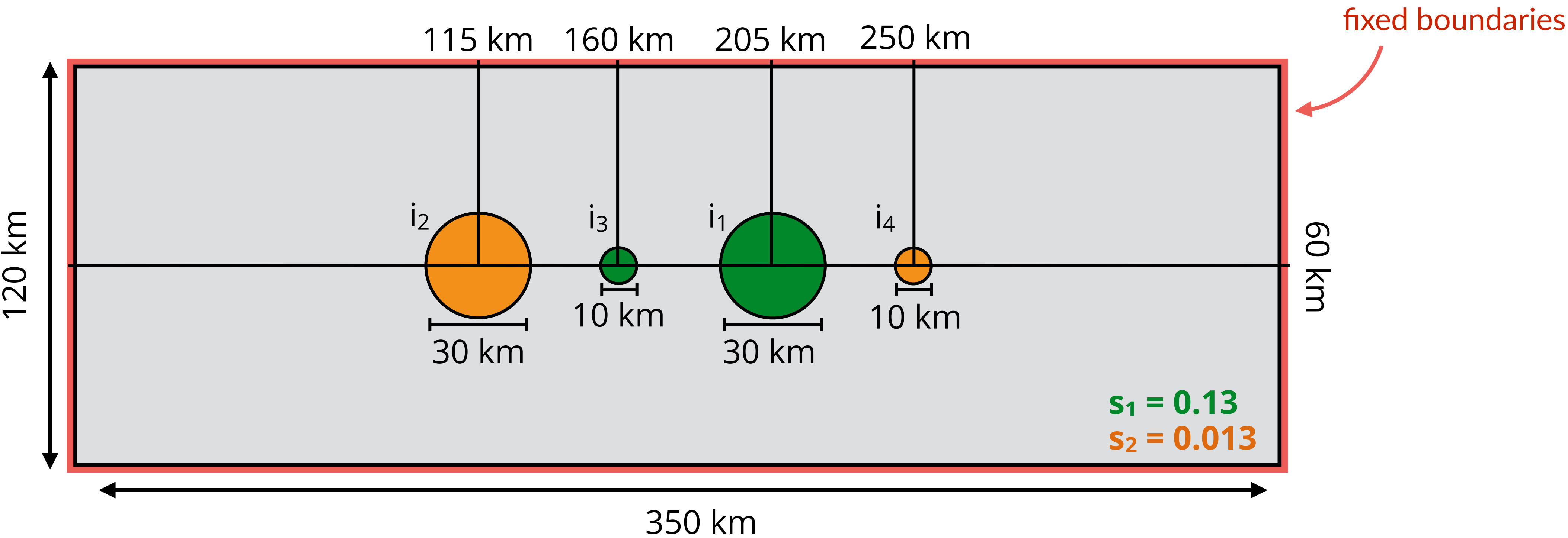
General form:

$$I = K P^d f(Qs) (PA)^m S^n \quad \text{where:} \quad f(Qs) = Qs/W (1 - Qs_b/Qt) \quad Qs_b = Qs f(S)$$

Testing erosion laws - generic models



Initial setting



Precipitation = 1 m/a

Uplift = 0.2 mm/yr

$i_1 : z_{\max} = 2 \text{ km}$

$i_3 : z_{\max} = 650 \text{ m}$

$i_2 : z_{\max} = 200 \text{ m}$

$i_4 : z_{\max} = 65 \text{ m}$