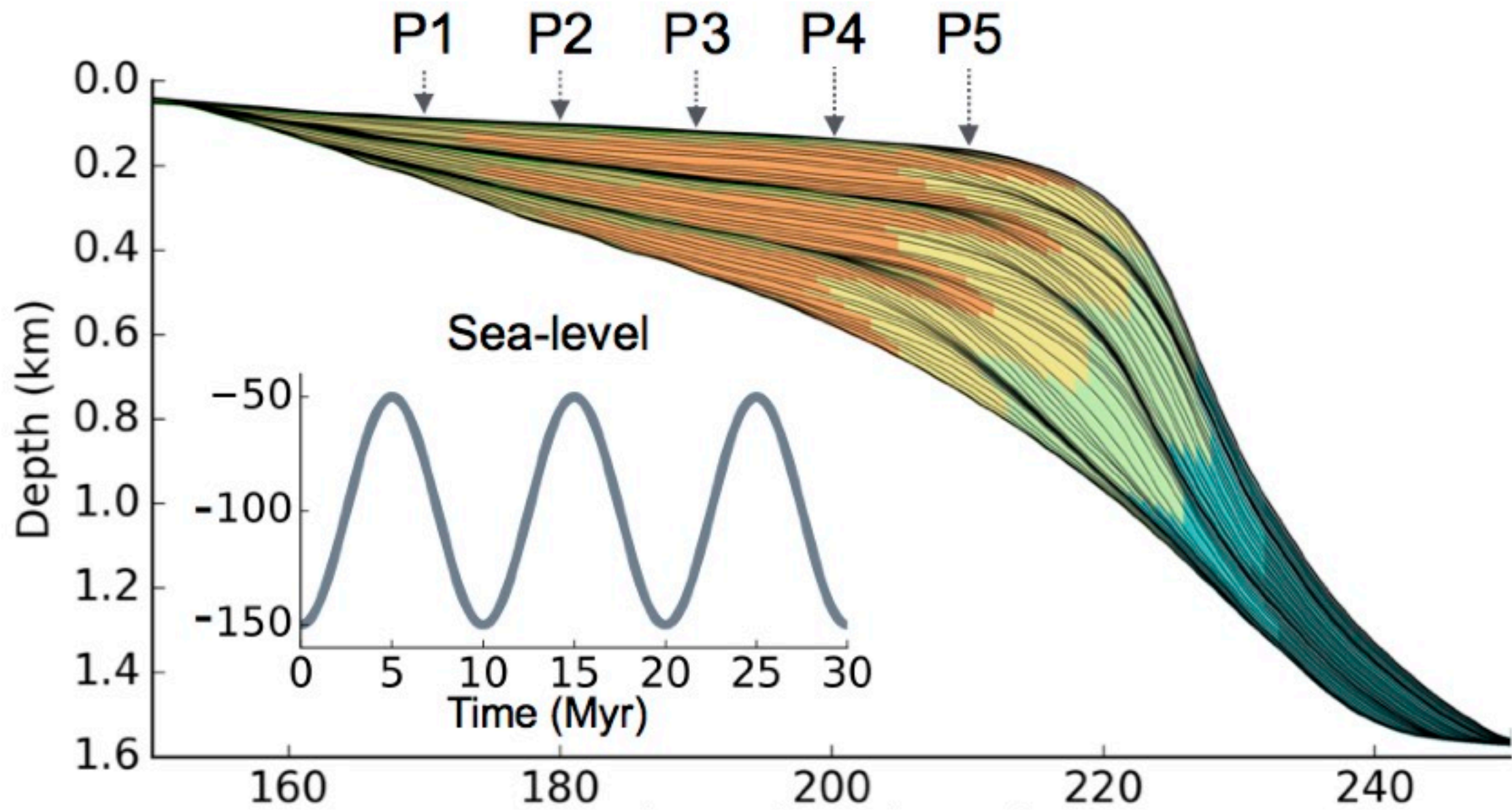
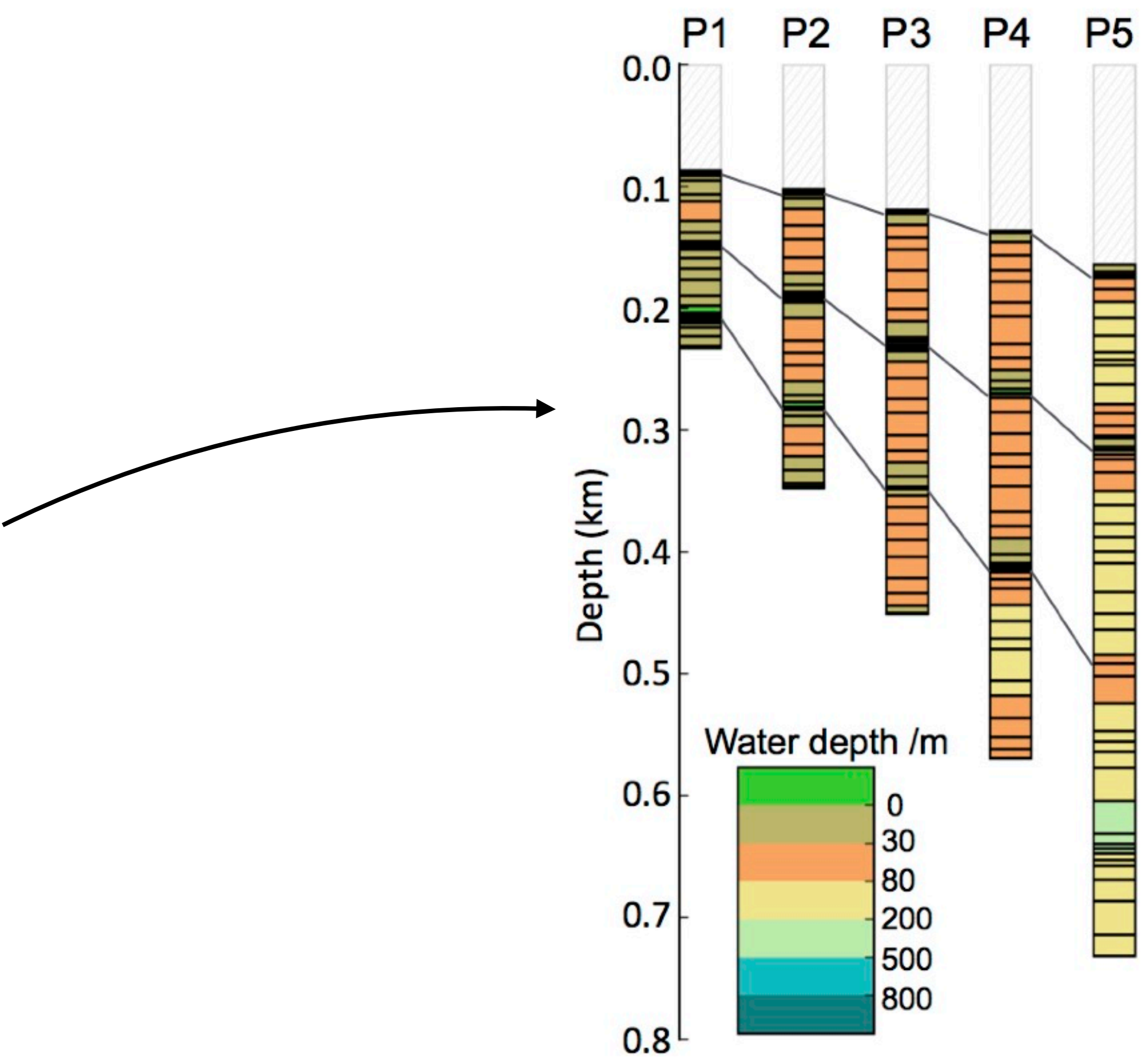
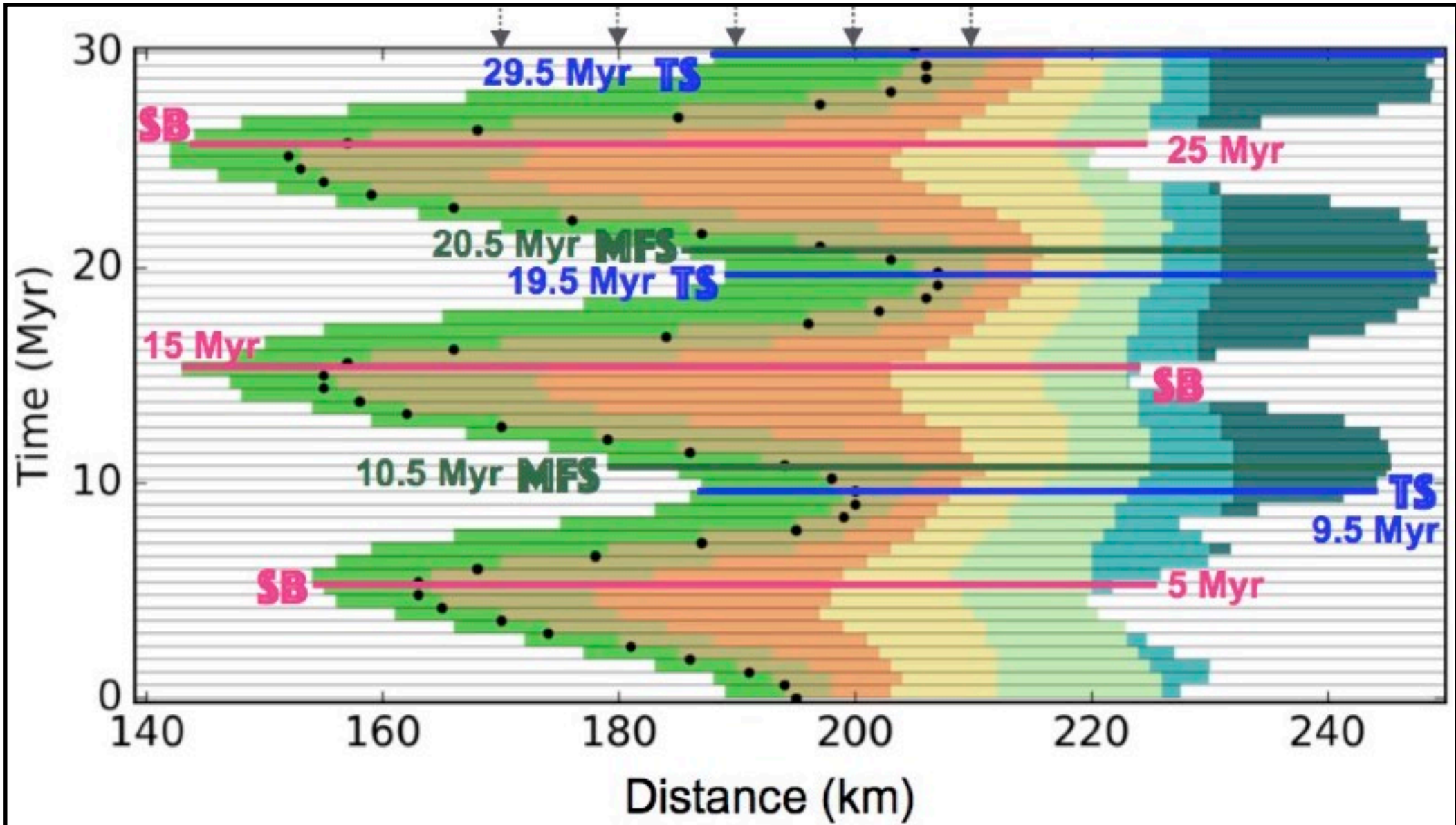


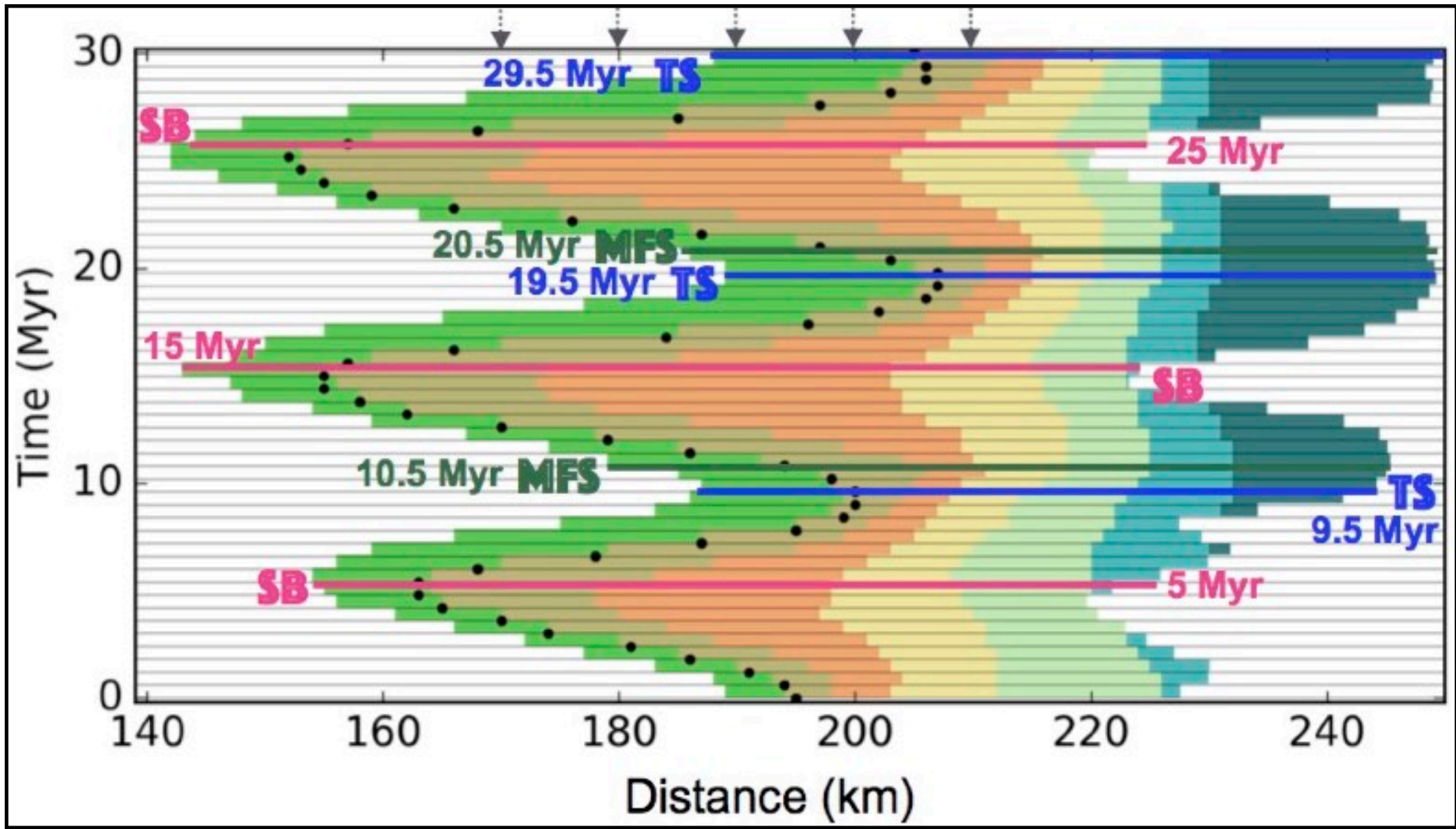
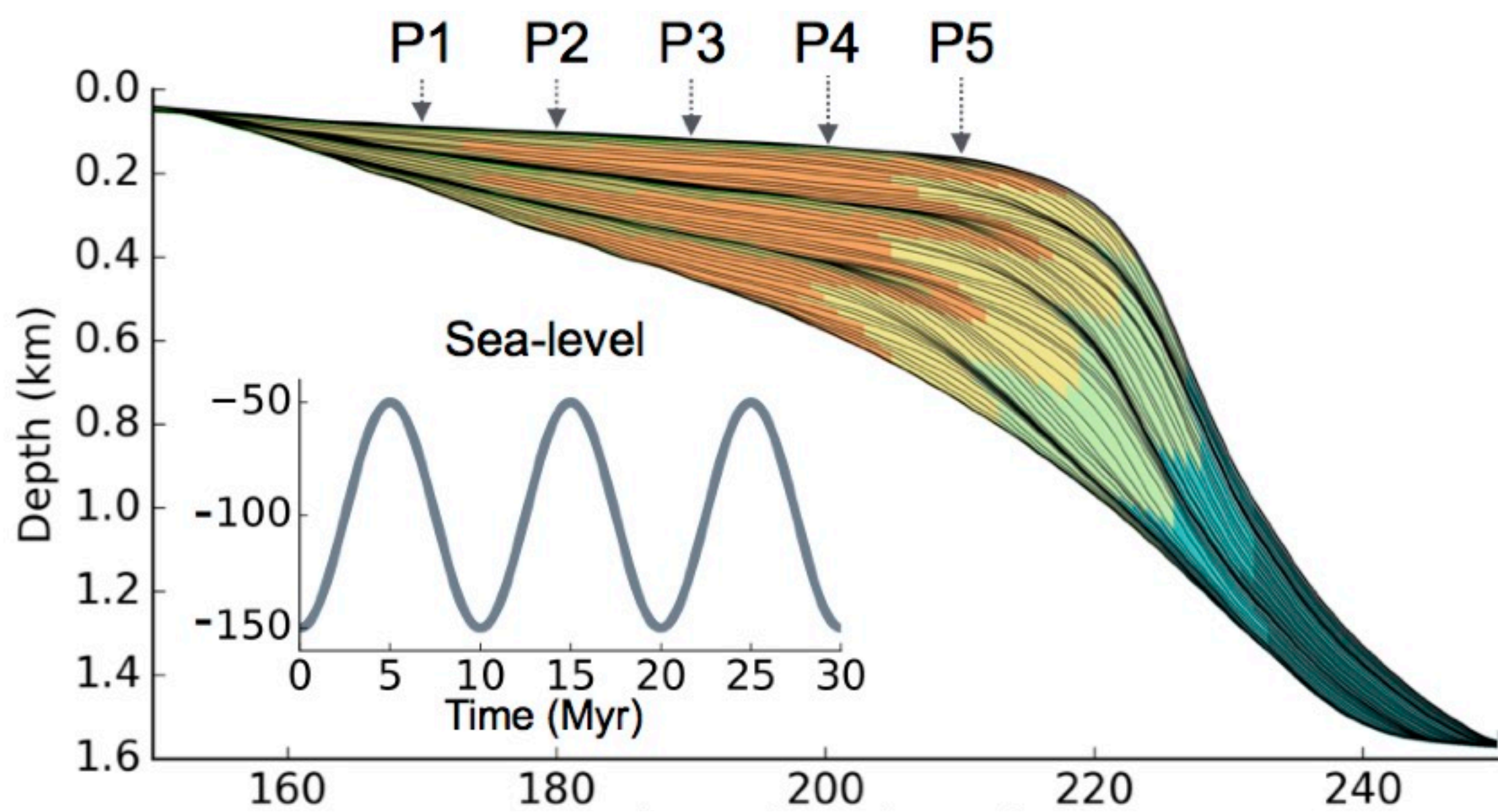
Synthetic Weils & Wheelers







Synthetic wells & Wheeler diagram



Influence of dynamic topography

Investigate the influence of +/- dynamic topography on landscape evolution, the reorganisation of drainage systems, & sedimentation on continental margins.

Model Geometry		
Elevation (m)	Mountain	(200, 800)
	Plain	(0, 200)
	Contin. shelf	(-200, 0)
	Contin. slope	(-1000, -200)
	Basin floor	-1000
Width (km)	Mountain	100
	Plain	100
	Contin. shelf	100
	Contin. slope	30
	Basin floor	20
Modelling Parameters		
Grid resolution	701 x 701	
Grid spacing	1.0 km	
Time-step	10000 year	
Model run time	20 Myr	
Surface Process Parameters		
Erodibility coefficient (Kf)	1.0 x 10-7	
Diffusion coefficient (Kd)	Aerial	0.002
	Marine	0.005
Slope exponent (n)	1	
Drainage area exponent (m)	0.5	

