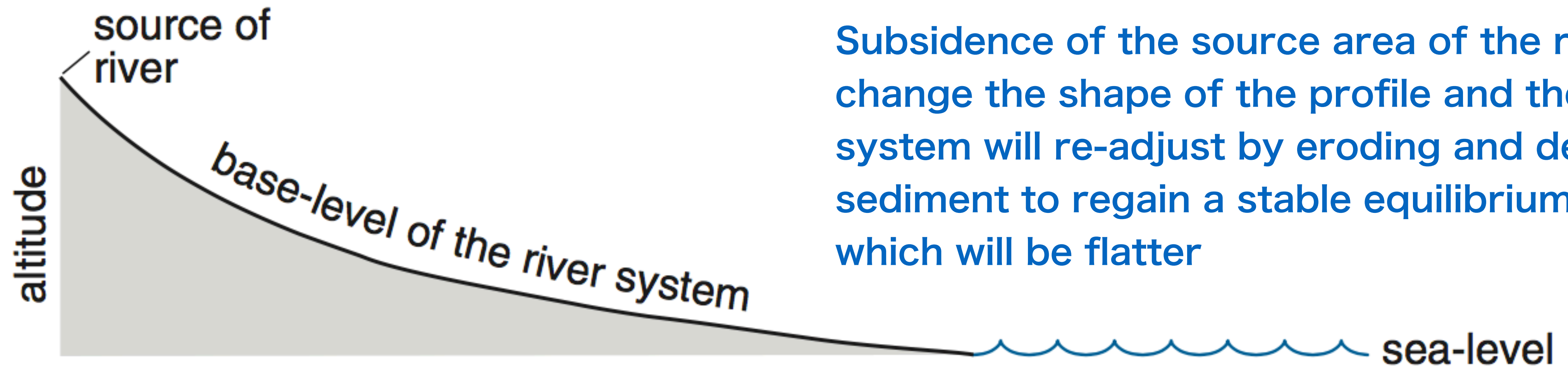
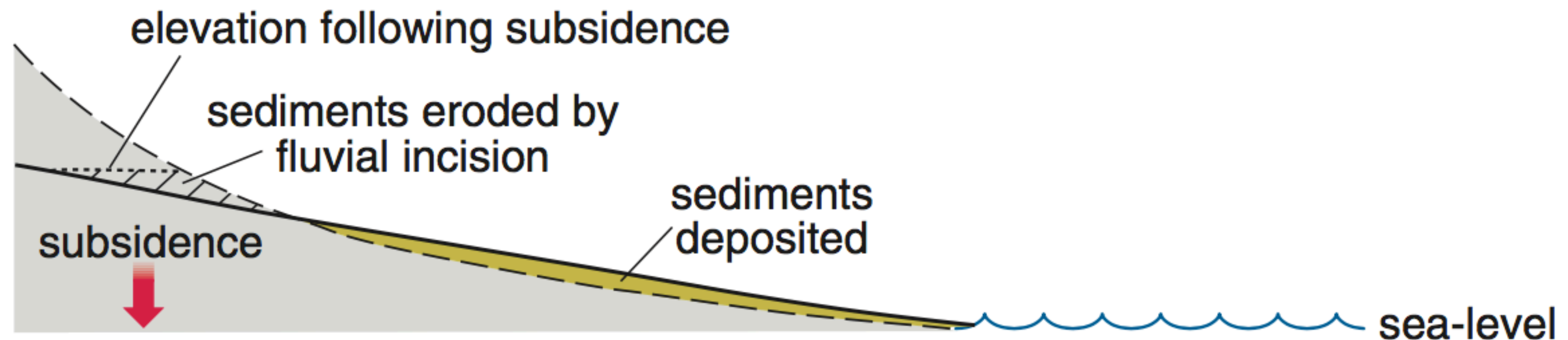


Equilibrium profile



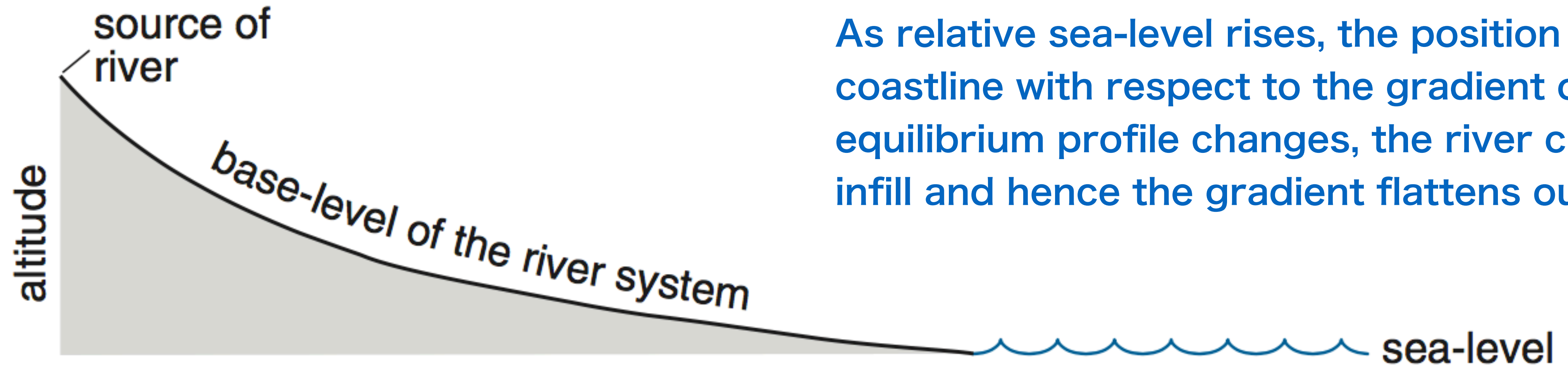
Subsidence of the source area of the river will change the shape of the profile and the river system will re-adjust by eroding and depositing sediment to regain a stable equilibrium profile which will be flatter



KEY

	alluvial sediments		marine sediments
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Equilibrium profile



As relative sea-level rises, the position of the coastline with respect to the gradient of the equilibrium profile changes, the river channels infill and hence the gradient flattens out

