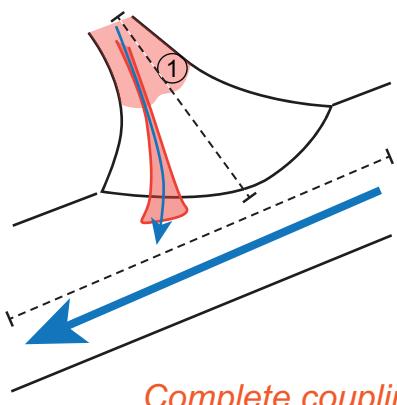


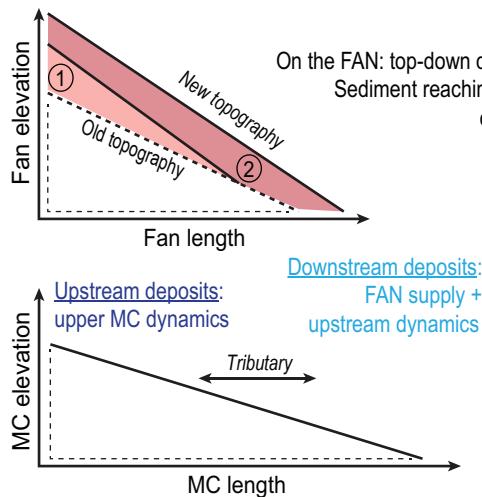
(a) Fan aggradation

Non-influential alluvial fans

Partial coupling between FAN & MC



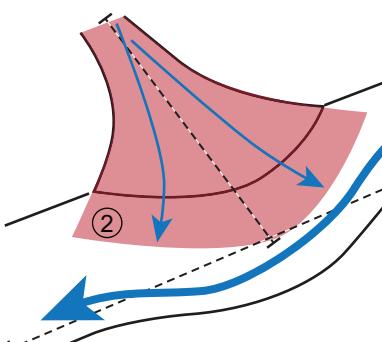
Complete coupling within MC



(b) Fan aggradation & progradation

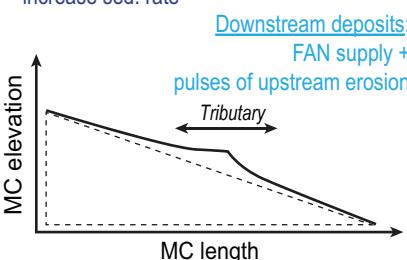
Influential alluvial fans

Partial coupling between FAN & MC



Partial decoupling between upper and lower MC

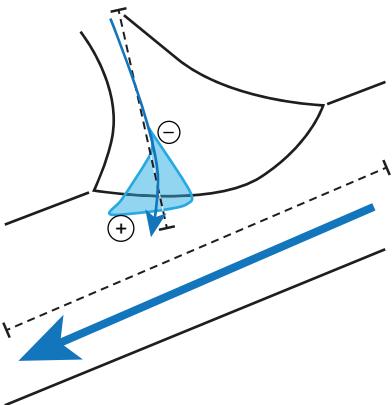
Upstream deposits: increase sed. rate



(d) Main channel incision

Non-influential alluvial fans

Complete coupling between FAN & MC



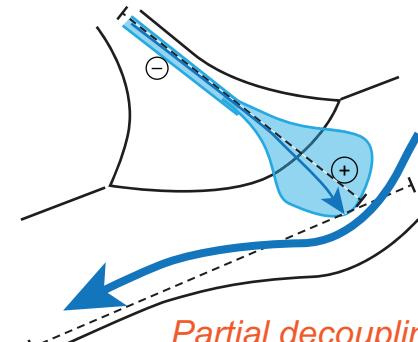
Complete coupling between upper and lower MC

On the FAN: bottom-up incision and erosion of material previously deposited. Sediment reaching the MC is immediately transported away.

(c) Fan incision & progradation

Influential alluvial fans

Complete coupling between FAN & MC



Partial decoupling between upper and lower MC

On the FAN: top-down incision and healing wedge. Erosion of material previously deposited. Sediment reaches the MC in pulses and may record the perturbation onset.

