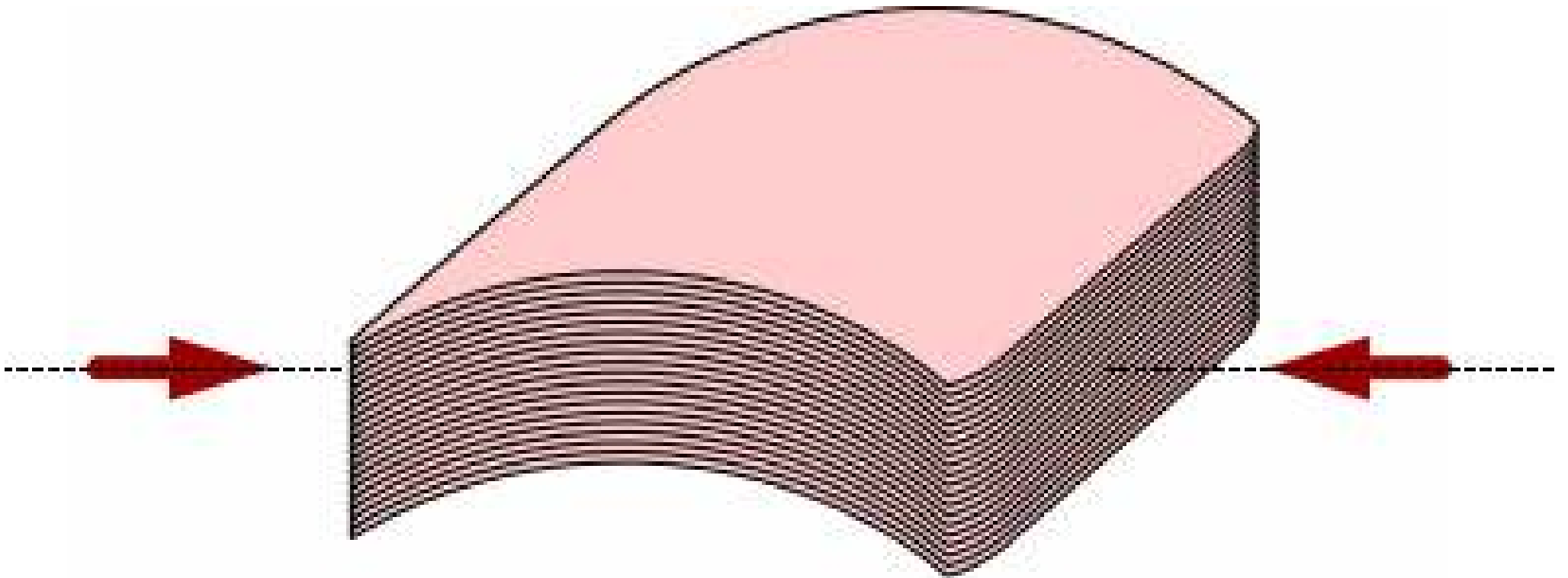
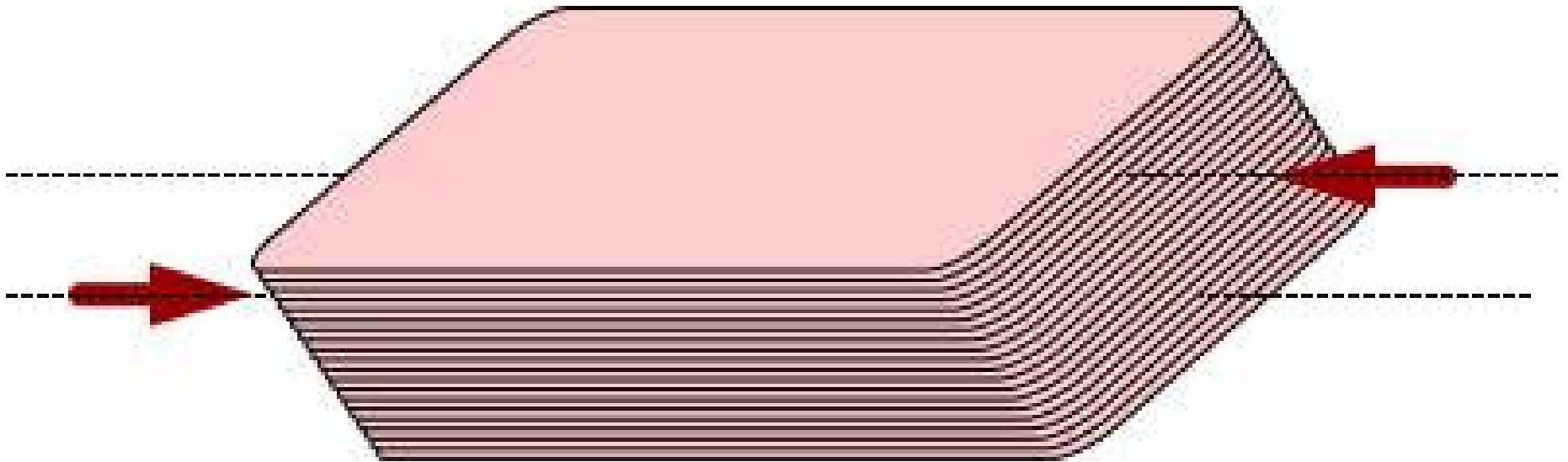


Gli strati rocciosi se compressi
si deformano come un mazzo di carte



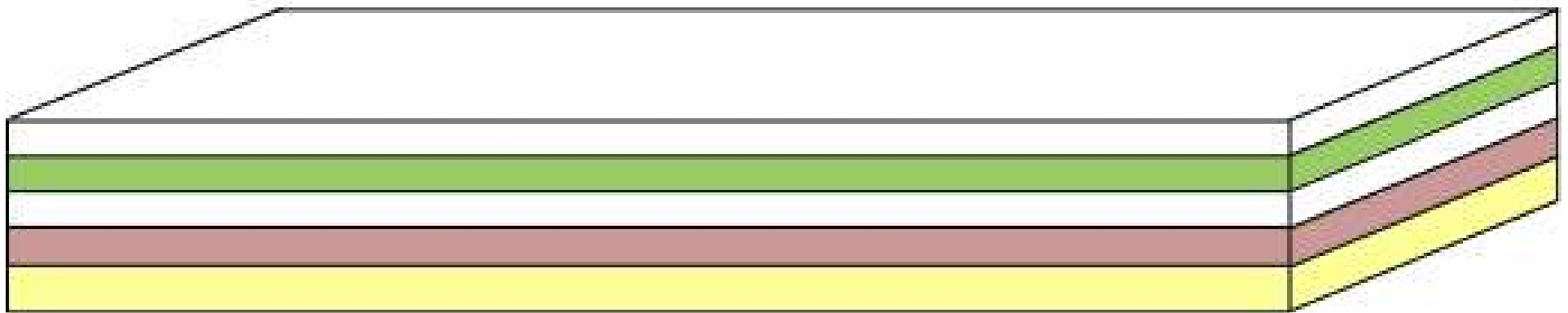
indietro

La deformazione delle rocce
dipende dalle forze applicate

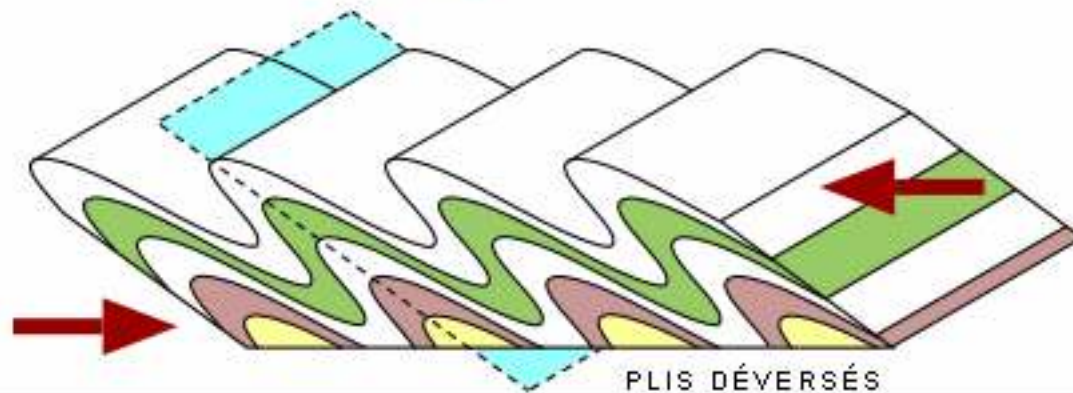
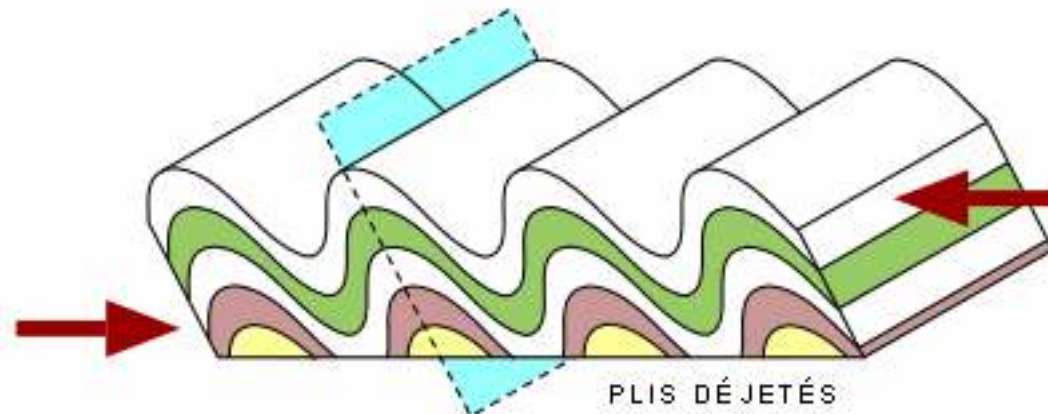
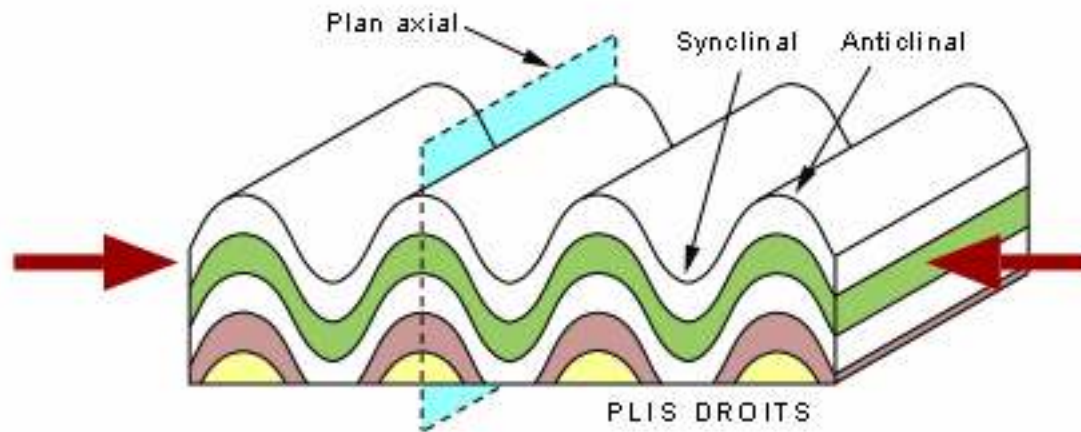


Strati orizzontali non deformati

Couches horizontales non déformées



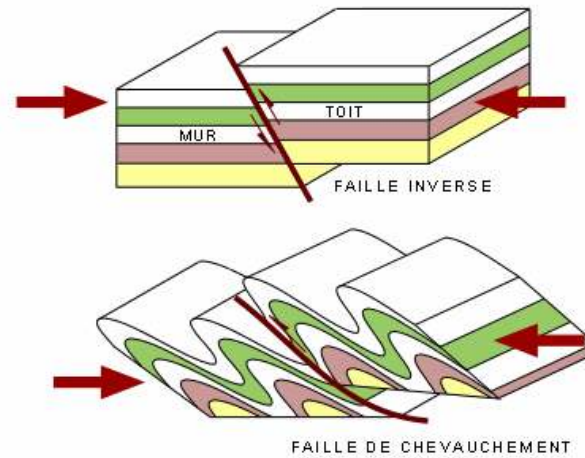
Déformation plastique - Régime compressif



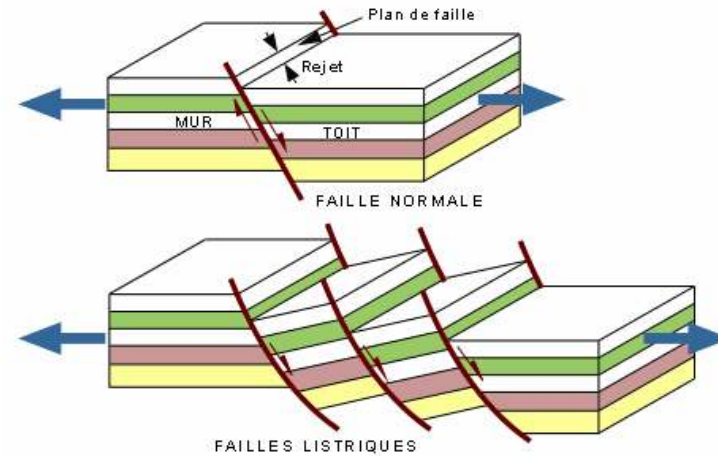
Deformazione
plastica

Esempi di deformazione rigida

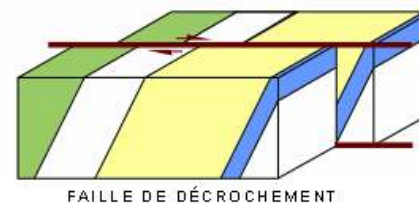
Déformation cassante - Régime compressif



Déformation cassante - Régime extensif



Déformation cassante - Régime coulissant



Da dove arrivano gli strati
rocciosi?

Delta di un fiume

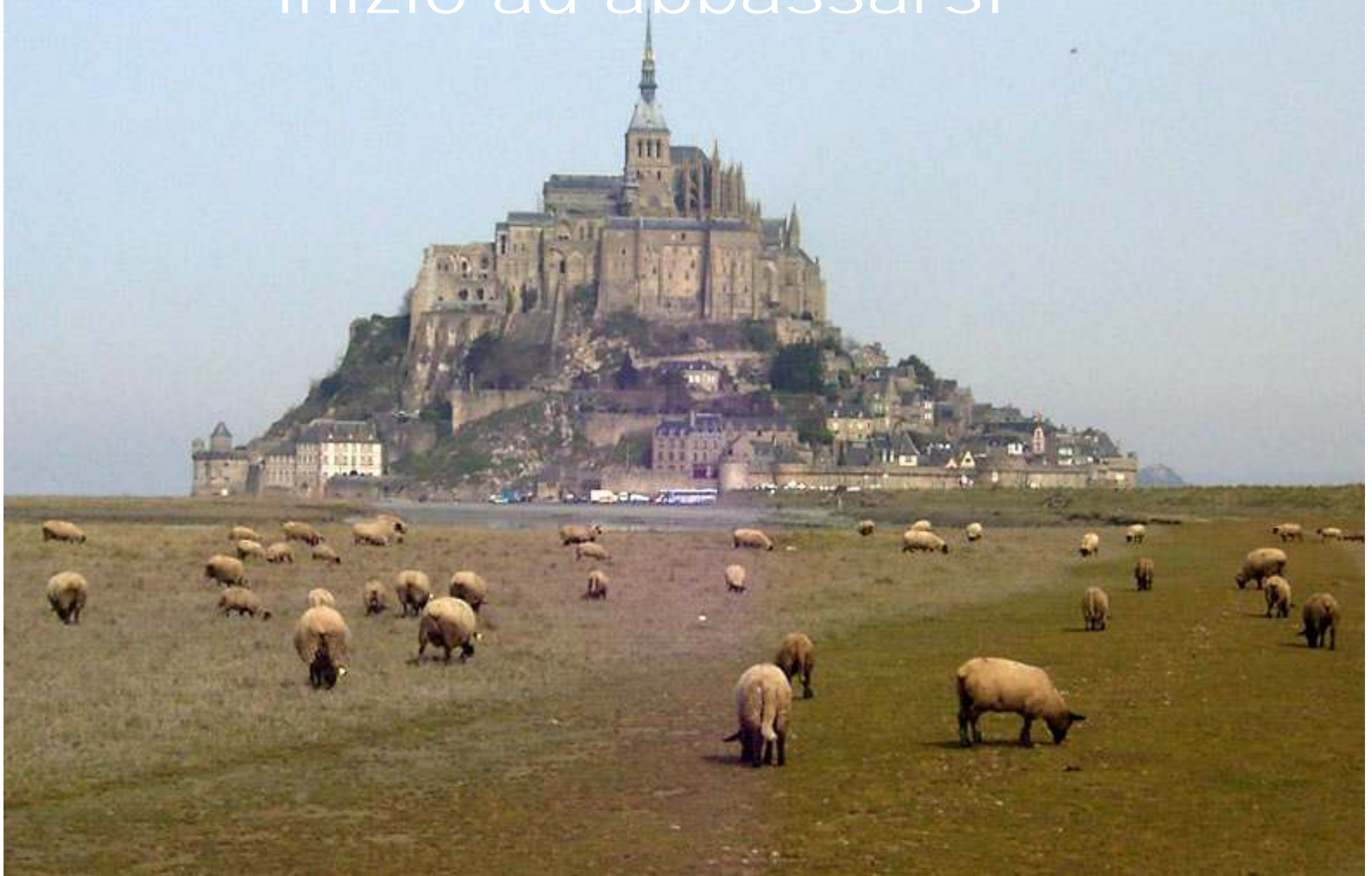


Trequanda nel
pliocene
poteva avere
un aspetto
simile a
questo





Ma un giorno il livello del mare
iniziò ad abbassarsi



Rimasero in vista i sedimenti del
fondo marino



Depositi sabbiosi con ripple marks



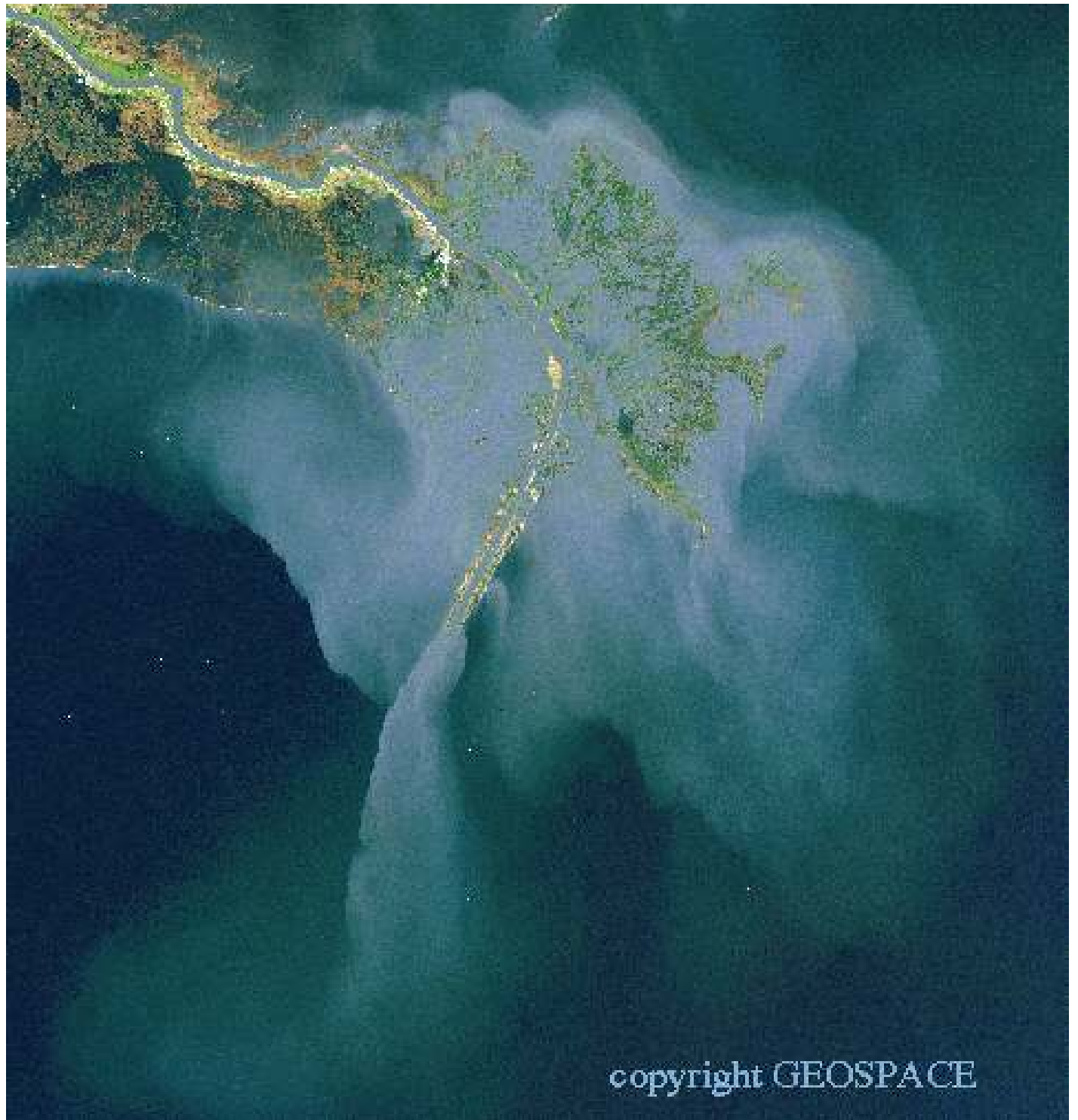
Roccia con evidenti ripple marks



I fiumi portano in mare i loro sedimenti



I sedimenti grossolani si depositano vicino alla costa, quelli fini via via più lontano



Con il tempo i sedimenti diventano
rocce: litificazione



Sedimenti torbidity



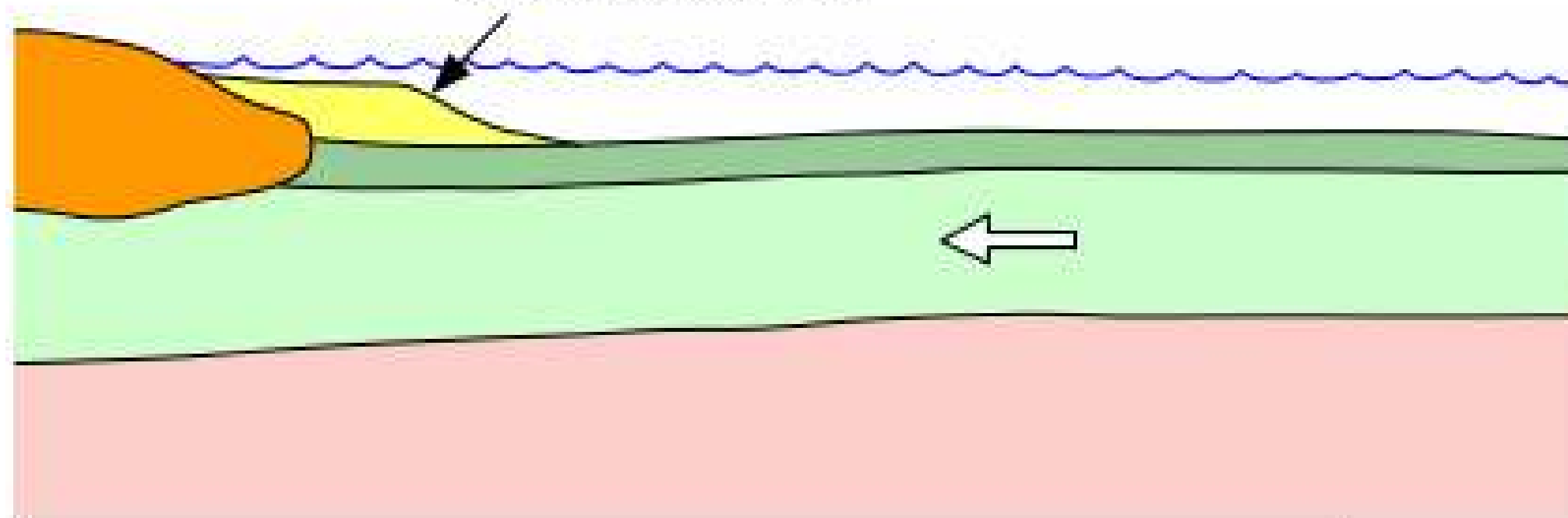
Succede che
da orizzontali
i sedimenti
si inclinano



Meccanismi plicativi

Marge continentale
passive

Prisme sédimentaire



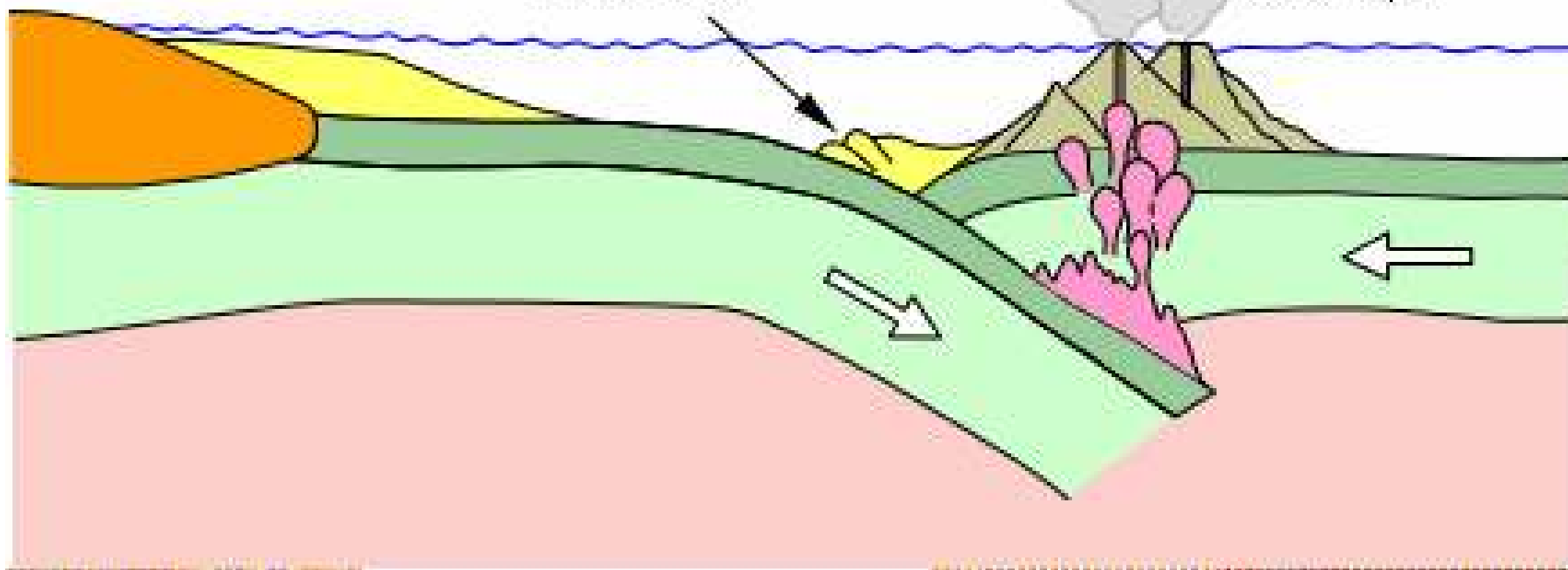
Meccanismi plicativi

Marge continentale
active

prisme
d'accrétion

Zone
d'obduction

Arc
volcanique

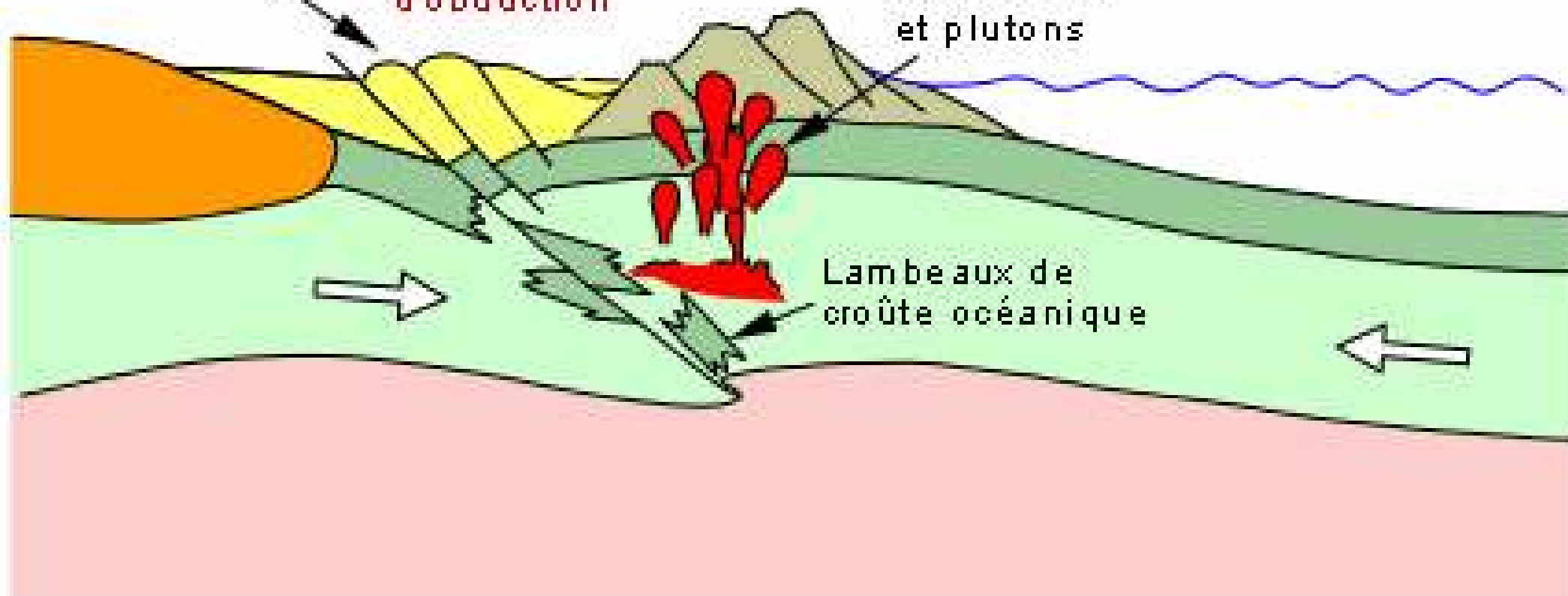


Meccanismi plicativi

Chevauchement, soulèvement
et déformation des sédiments
d'eau profonde

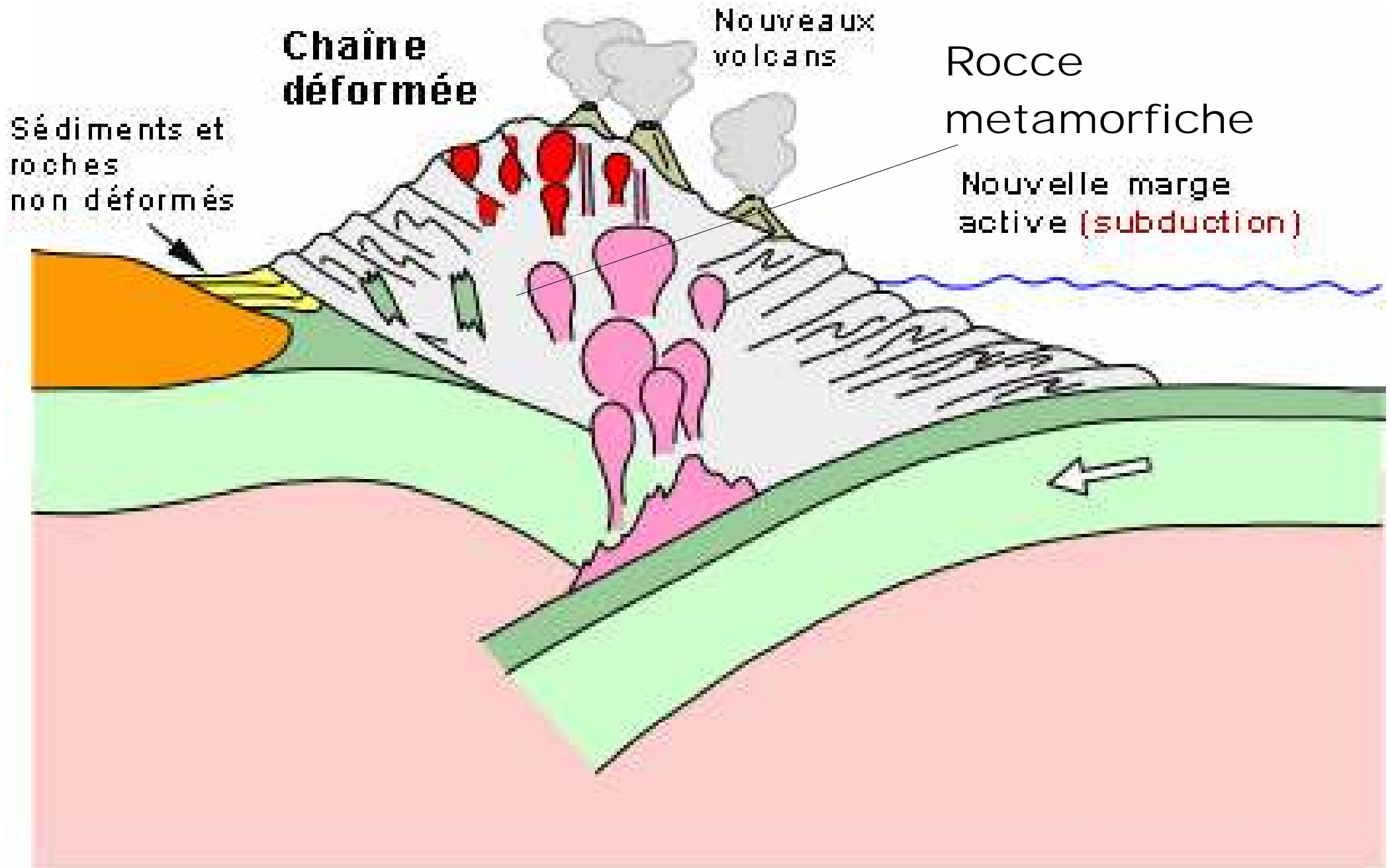
Zone
d'obduction

Batholithes
et plutons



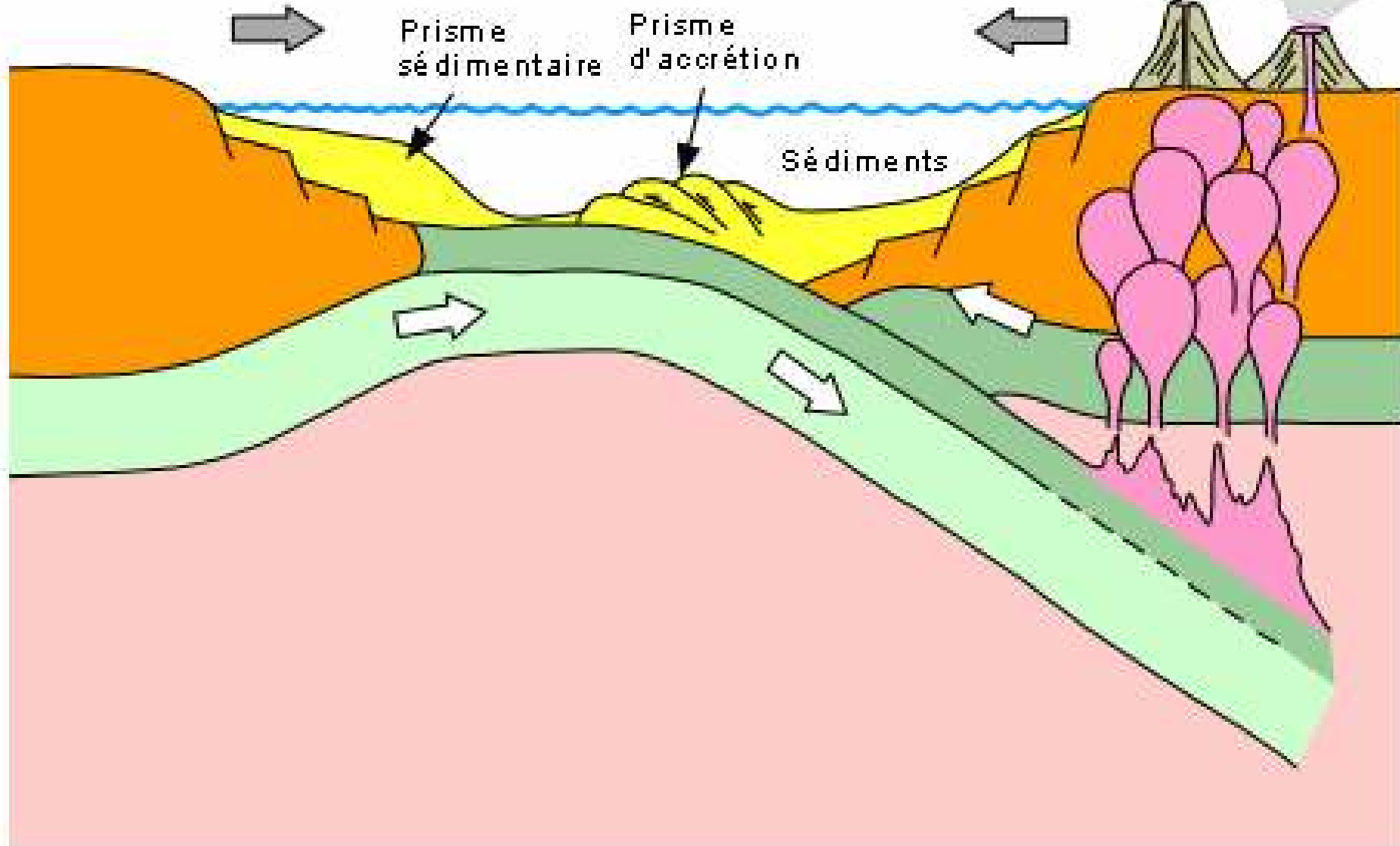
Lambeaux de
croûte océanique

Meccanismi plicativi

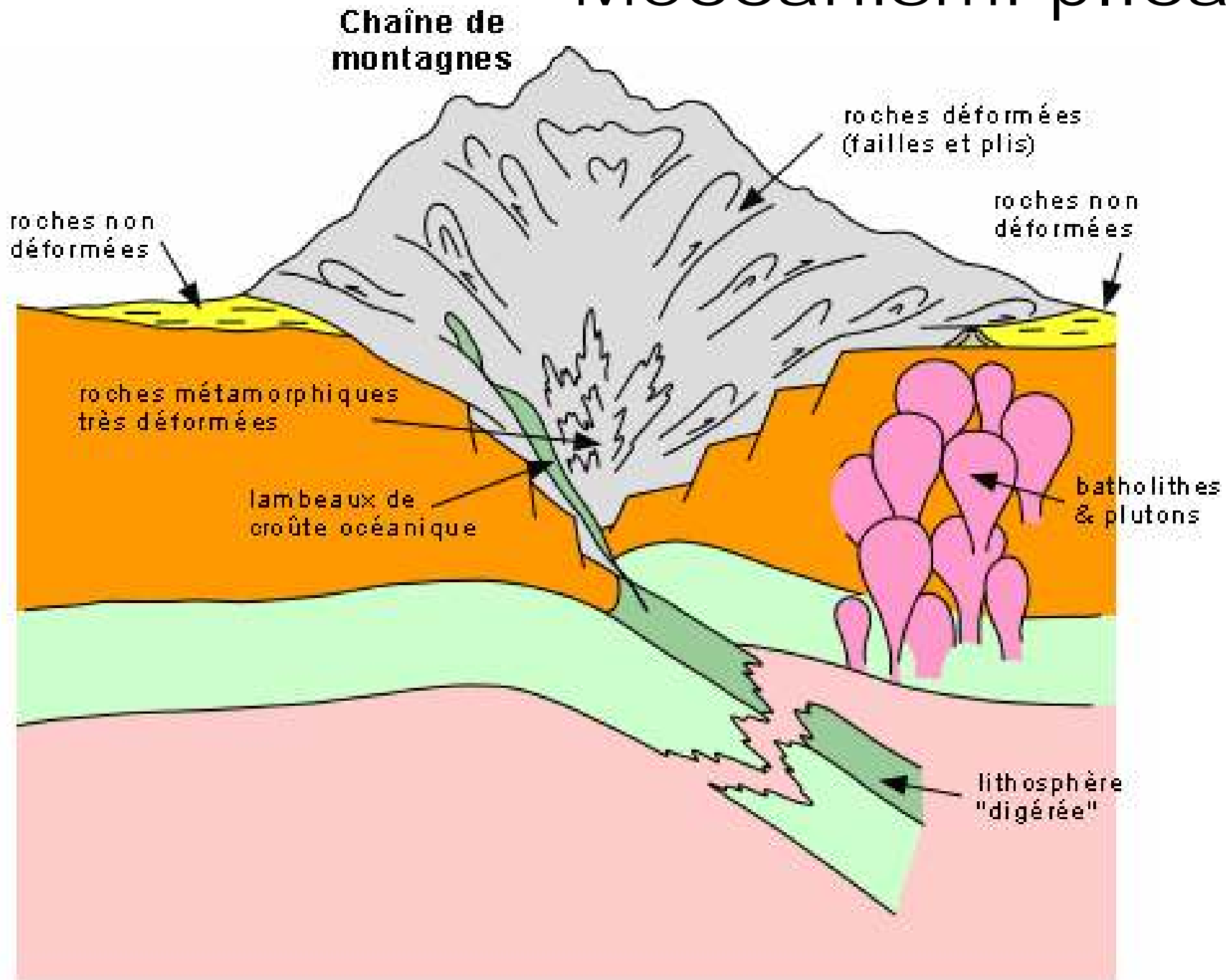


Meccanismi plicativi

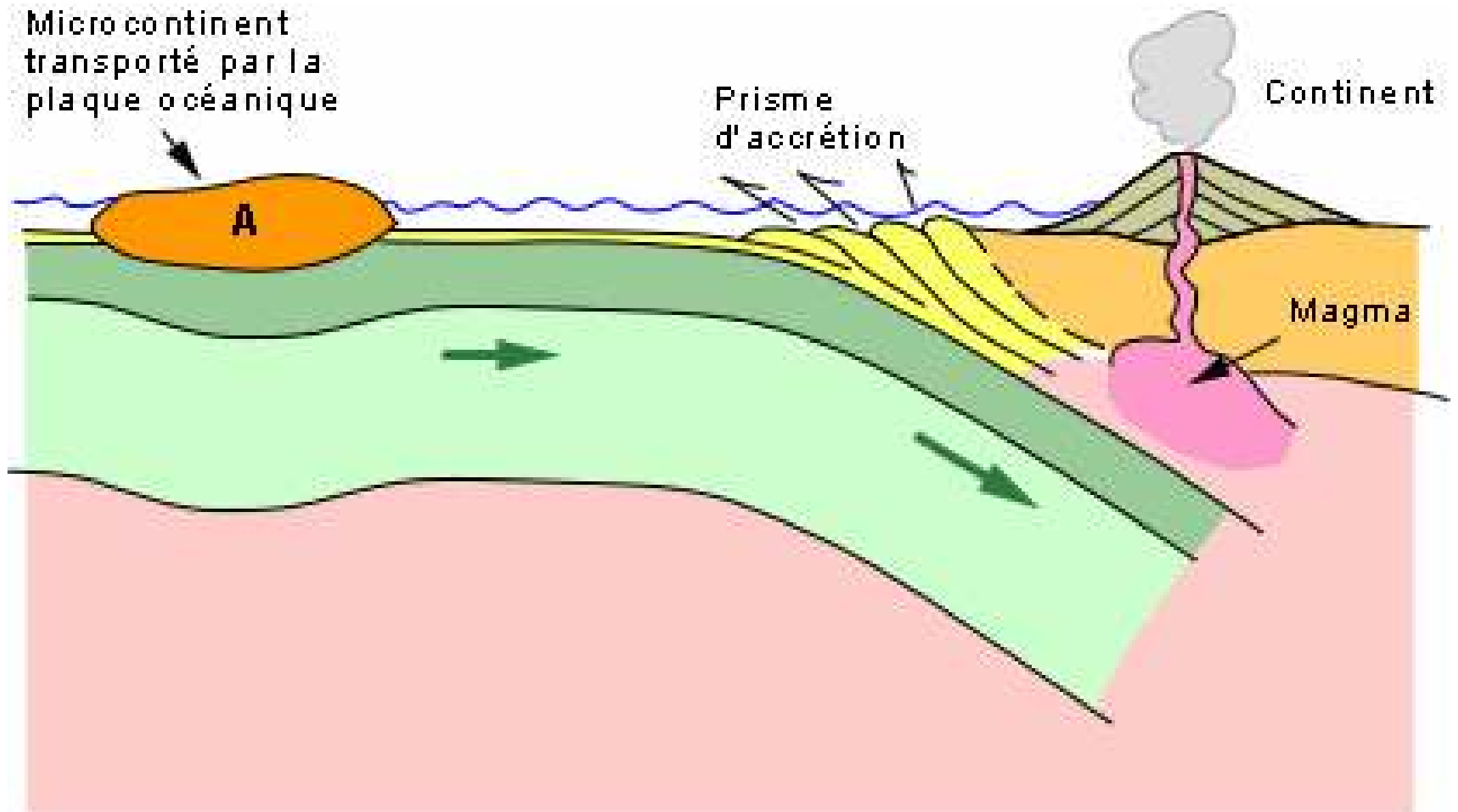
Volcans
d'arc continental



Meccanismi plicativi

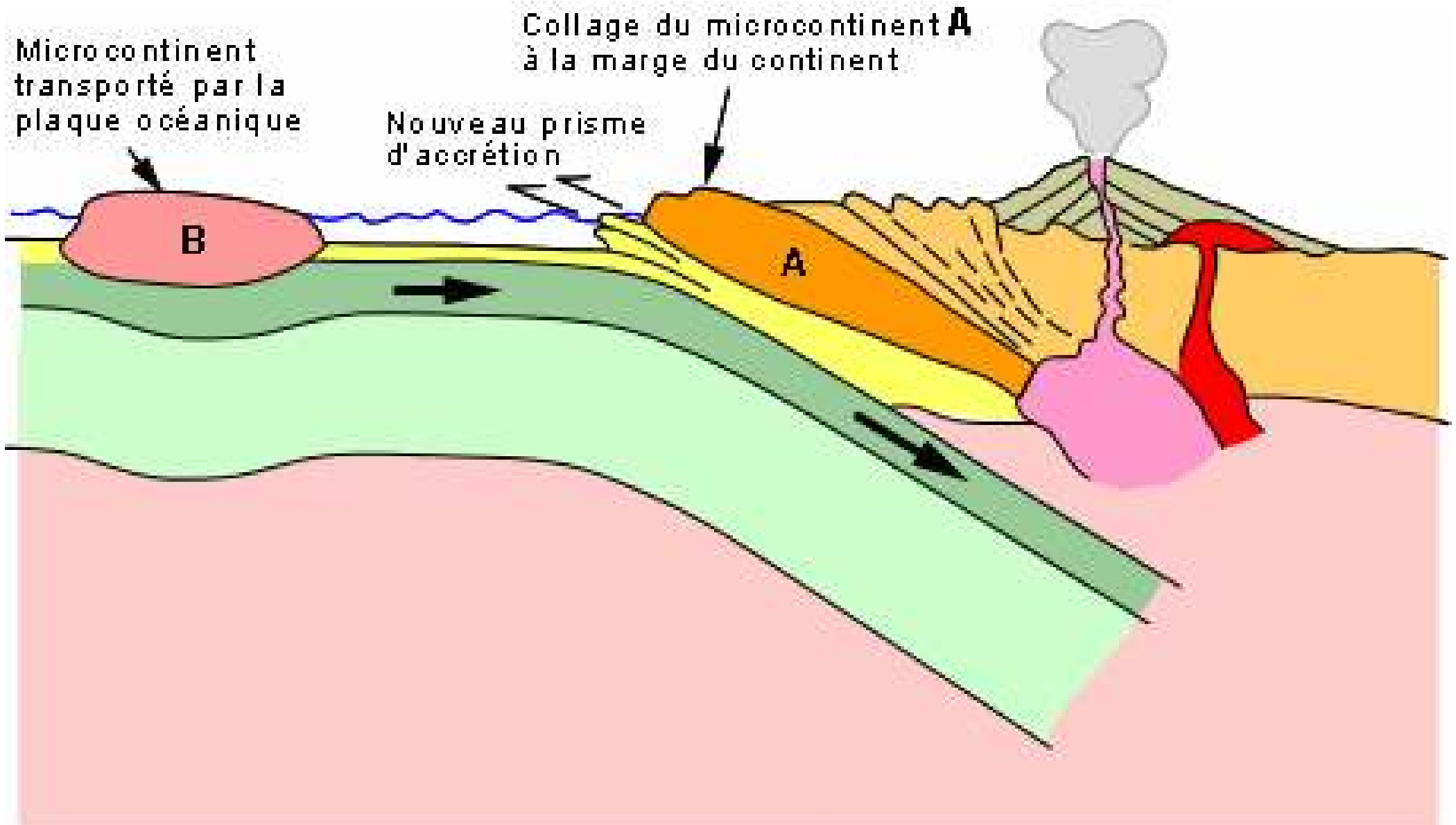


Meccanismi plicativi India



Meccanismi plicativi

India



California:
la faglia di
S. Andreas.
Faglia
trascorrente



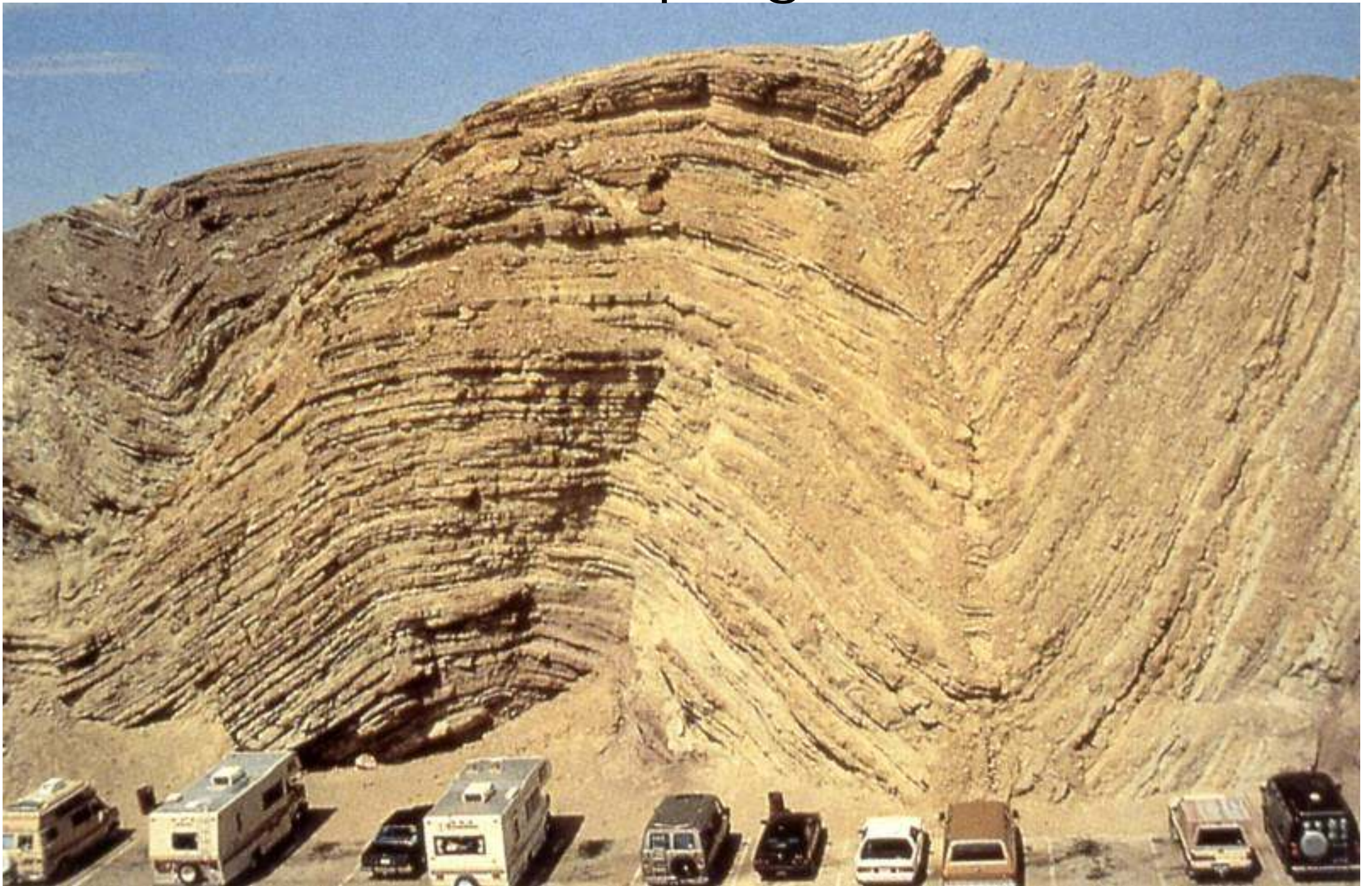
Faglia diretta



Rocce piegate



Rocce piegate



Rocce piegate
messe a giorno
dall'erosione



Rocce piegate



indietro