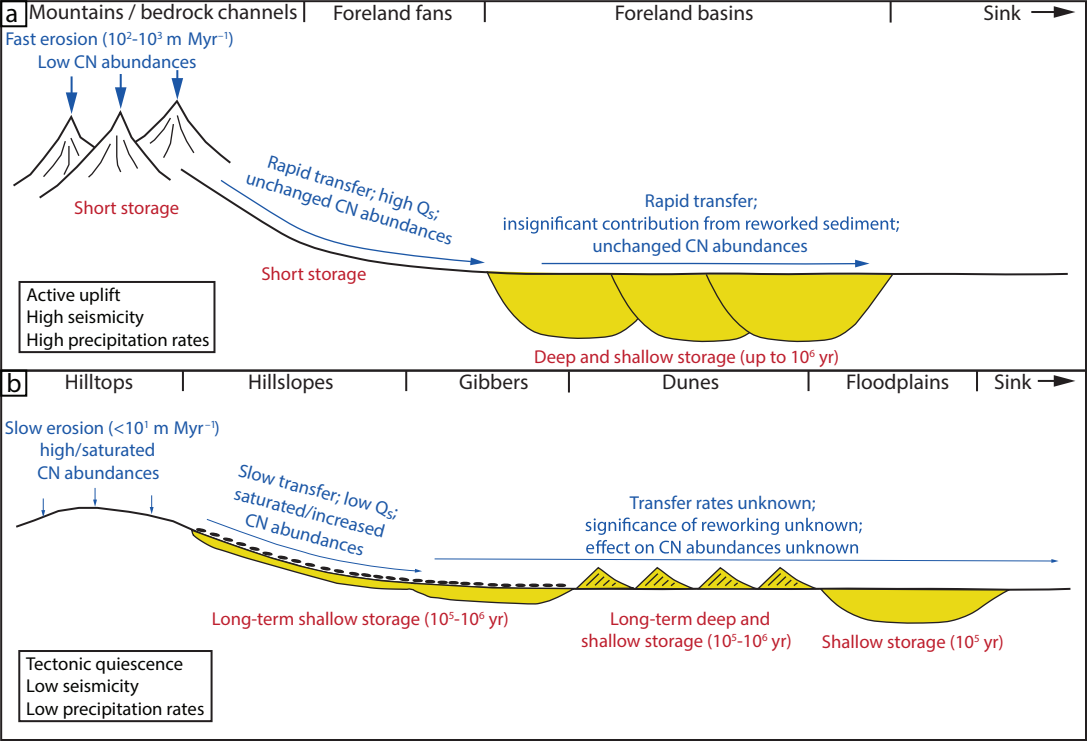
a
Mountains / bedrock channels
Foreland fans
Foreland basins
Sink
Fast erosion (10²-10³ m Myr⁻¹)
Low CN abundances
Short storage
Rapid transfer; high Qs;
unchanged CN abundances
Short storage
Rapid transfer;
insignificant contribution from reworked sediment;
unchanged CN abundances
Active uplift
High seismicity
High precipitation rates
Deep and shallow storage (up to 10⁶ yr)
b
Hilltops
Hillslopes
Gibbers
Dunes
Floodplains
Sink
Slow erosion (<10¹ m Myr⁻¹)
high/saturated
CN abundances
Slow transfer; low Qs;
saturated/increased
CN abundances
Transfer rates unknown;
significance of reworking unknown;
effect on CN abundances unknown
Long-term shallow storage (10⁵-10⁶ yr)
Long-term deep and
shallow storage (10⁵-10⁶ yr)
Shallow storage (10⁵ yr)
Tectonic quiescence
Low seismicity
Low precipitation rates