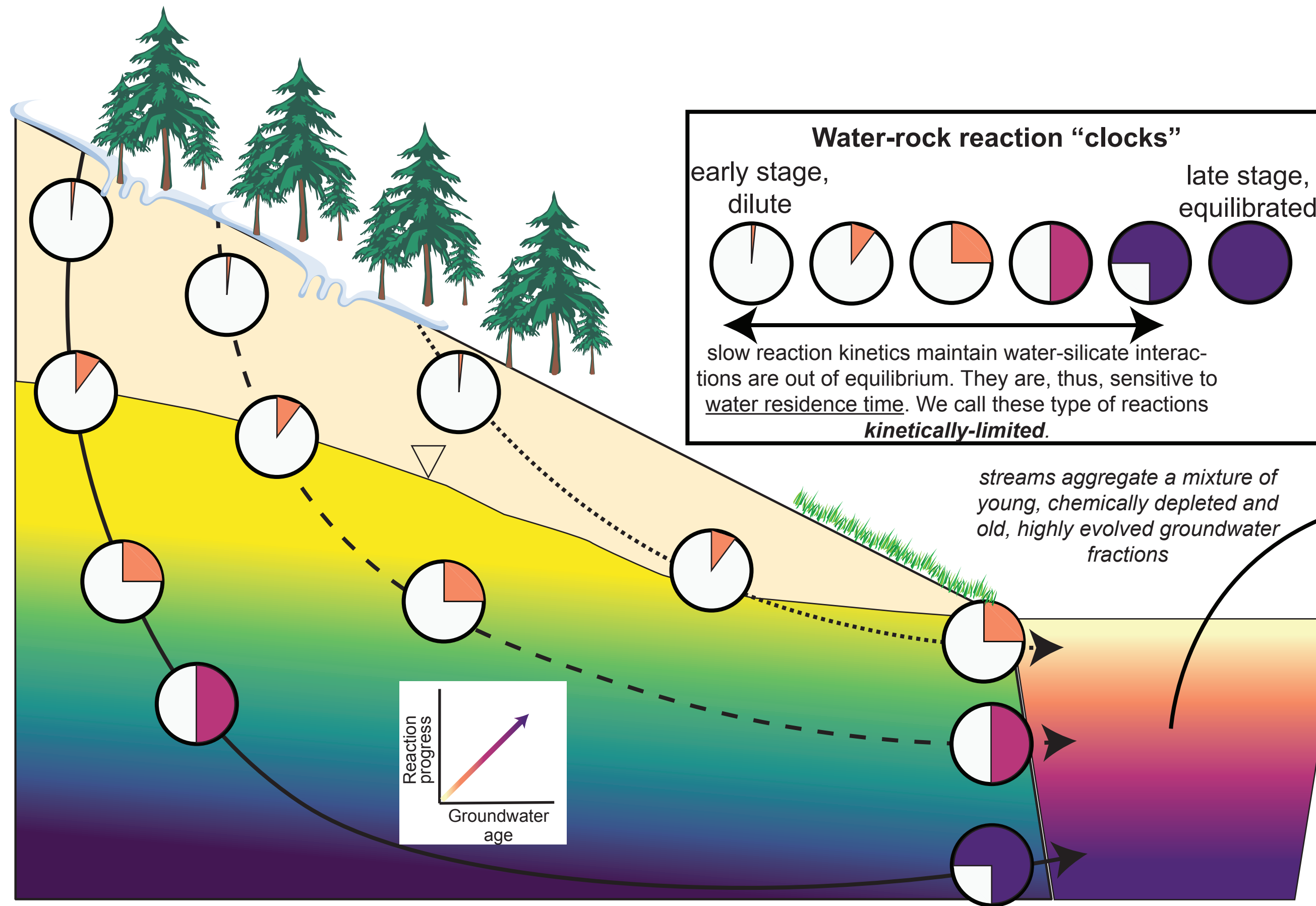


A

young
(< 3 months)

groundwaters are stratified,
grading from younger,
waters near the surface to
old waters at depth

old (> 1 year)

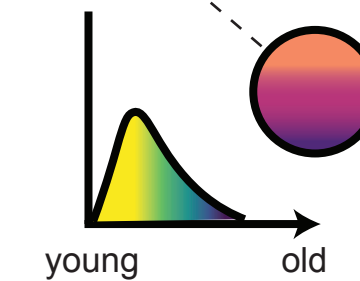
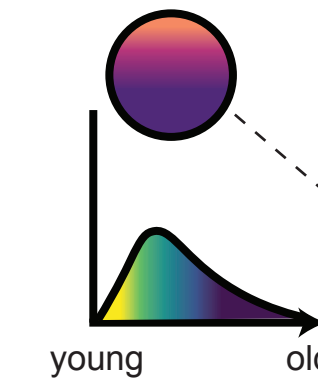


B

Streamwater chemistry

Baseflow
“dry season”

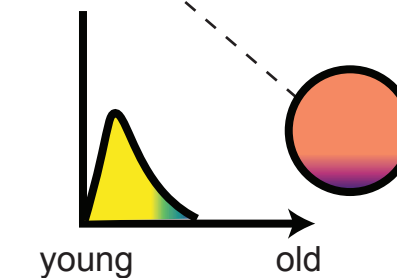
more contribution of old, chemically evolved
waters draining deep subsurface



Distribution of groundwater
age contributions to the
stream

Event-flow

“rainy or snowmelt season”
higher young, depleted water fraction
draining shallow subsurface



streamflow or discharge