dominated by a positive feedback loop between the formation of secondary minerals and the infiltration of fluids

La Campana

precipitation rate

soil denudation rate

Ca dep. CDF ΔCIA

Ca dep. CDF ΔCIA

Nahuelbuta

precipitation rate

soil denudation rate

nutrient recycling

partial plagioclase dissolution

clay minerals, gibbsite and (amorphous) secondary Al-, Si-bearing phases

Fe(III) oxyhydroxides

weathering-induced fractures

H₂O O₂

quartz feldspar

biotite

p = pressure → fracturing

plant roots

expandable clay minerals

dominated by a negative feedback loop between the formation of secondary minerals and the infiltration of fluids

Ca dep. CDF ΔCIA

Ca dep. CDF ΔCIA

plagioclase

clay minerals, gibbsite and (amorphous) secondary Al-, Si-bearing phases

dep. dep. Ca CDF ΔCIA