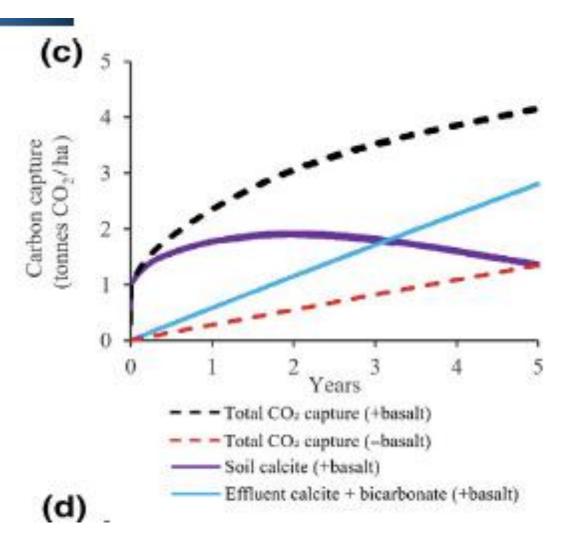
Ultimate tons CO2/ha diagram. May be one line only – total CO2 captured so that we can have a band of uncertainty later



No Basalt case
Amending basalt cases

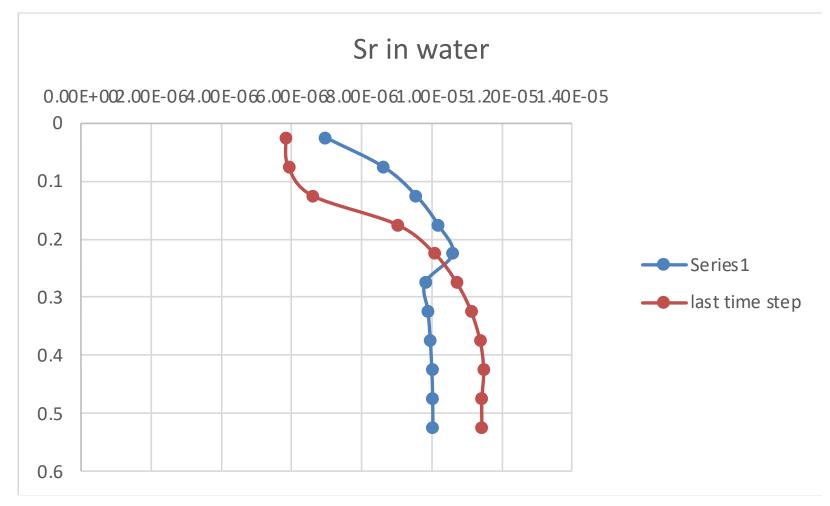
Soil calcite
Solution 1-10, average,
C1-10 (mol/L_pw) * V (500000 L_pw/ha) * 44 (g/mol)/1000000 = M (tones CO2/ha)

Effluent calcite
Solution 11,
C11 (mol/L_pw) * V (500000/10 L_pw/ha) * 44 (g/mol)/1000000
= M (tones CO2/ha)

Effluent bicarbonate Solution 11, $\sum_{0}^{1} C11 \text{ (mol/L_pw) * V (500000/10 L_pw/ha) * 44 (g/mol)/1000000} = M (tones CO2/ha)$

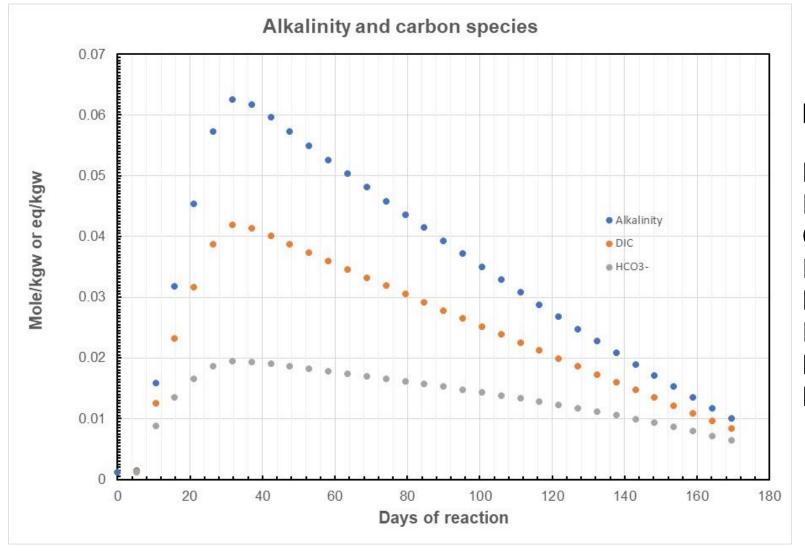
Total capture CO2 (tones CO2/ha) = Effluent bicarbonate + Effluent calcite + Soil calcite

Vertical profile in soils. Vertical axis cm. Horizontal axis change concentrations from mol/kgw to mg/L. Choose three time steps. t=0 the baseline. The last time step. One in middle. W should have pH, other parameters.



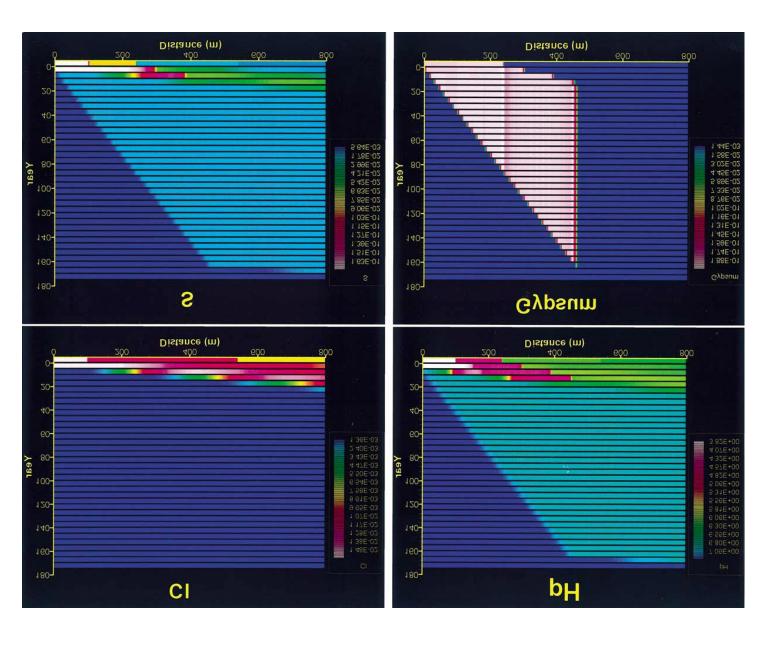
pH,

N Na Ca Mg K Al Si Fe Sr Ba P C(4) Hfo_s Hfo_w Calcite Chalcedony Al(OH)3(a) Fe(OH)3(a) O2(g) CO2(g) Quartz Labradorite Apatite Diopside Forsterite Fayalite Albite Microcline Montmorillonite Glass MikeSorghum Temporal evolution in Cell 5, 10, and 11. what parameters you want to plot.



pН,

N Na Ca Mg K Al Si Fe Sr Ba
P C(4) Hfo_s Hfo_w
Calcite Chalcedony Al(OH)3(a)
Fe(OH)3(a) O2(g) CO2(g) Quartz
Labradorite Apatite Diopside
Forsterite Fayalite Albite Microcline
Montmorillonite Glass
MikeSorghum



X, depth Y, years pH,

N Na Ca Mg K Al Si Fe Sr Ba P C(4) Hfo_s Hfo_w Calcite Chalcedony Al(OH)3(a) Fe(OH)3(a) O2(g) CO2(g) Quartz Labradorite Apatite Diopside Forsterite Fayalite Albite Microcline Montmorillonite Glass MikeSorghum