SOLUTAL CONVECTION INDUCED BY DISSOLUTION Julien Philippi, Michael Berhanu, Julien Derr and Sylvain Courrech du Pont

- Geophysical context: erosion by dissolution of a solid
- Local erosion rate is controlled by the concentration at the interface:

$$ho_{\sf s} \, {\it v}_{\sf n} = lpha ({\it c}_{\sf i} - {\it c}_{\sf sat})$$

• Even in the absence of an external flow, advection can drive the dissolution, due to buoyancy effects

