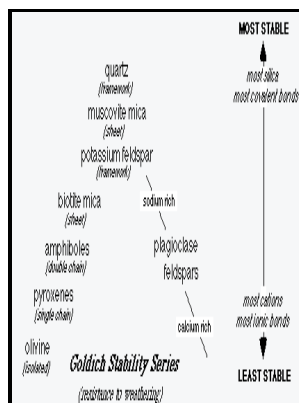


Chemical weathering of the silicate minerals

American Elsevier Pub. Co. - Silicate weathering as a feedback and forcing in Earth's climate and carbon cycle



Description: -

- Mineralogical chemistry.

Silicates.

Chemical weathering. Chemical weathering of the silicate minerals

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Notes: Includes bibliographies.

This edition was published in 1969



Filesize: 63.27 MB

Tags: #Natural #Weathering #Rates #of #Silicate #Minerals #— #University #of #Bristol

5.2 Chemical Weathering

These facts tend to offset one another. Chemical Weathering of Silicates in Nature: A Microscopic Perspective with Theoretical Considerations by Michael F.

What Is Silicate Weathering?

On a larger scale, seedlings sprouting in a crevice and plant roots exert physical pressure as well as providing a pathway for water and chemical infiltration. Located at the edge of the solar system's habitable zone, its surface is too cold for liquid water to form without a greenhouse effect.

Weathering

On the one hand, some minerals become altered to other minerals. However, compared to human industry, the processes of metamorphism, subduction and volcanism operate over geological timescales, so whilst there is a flux of carbon dioxide going into weathering and thence to limestones, there is also an outward flux going back into the atmosphere. Now let's saw the cube up into 1cm cubes OK, before anyone says, there'll be some wastage from the saw-cuts but let's forget about that.

Chemical Weathering Rates of Silicate Minerals

The angular rock fragments gather at the foot of the slope to form a slope or scree slope. For this reason, perturbations to the rate of weathering - and thereby the flux of carbon dioxide being consumed by weathering - typically occur slowly, although they may be quite profound, to the extent that significant past changes to climate may have, at least in part, been due to them. If dissolution of limestone or other materials removes enough rock to undermine support near the surface, the surface may collapse, creating a sinkhole such as the one in Figure 8.

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