\[ \text{H}_2\text{O} + \text{CO}_2 \rightarrow \text{H}_2\text{CO}_3 \]

water + carbon dioxide \rightarrow carbonic acid

soil water dissolves more carbon dioxide

\[ \text{H}_2\text{CO}_3 + \text{CaCO}_3 \rightarrow \text{Ca(HCO}_3\text{)}_2 \]

carbonic acid + calcium carbonate \rightarrow calcium bicarbonate
CARBONATACIÓ
FIG. 4-1. Frost wedging. Water in crack freezes from top down because ice is less dense than water (floats) and because the water in a crack is cooled most at the surface. This restricts the water in the crack. Because ice occupies more volume than water, further freezing creates forces due to this expansion. These forces cause further cracking of the rock.
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