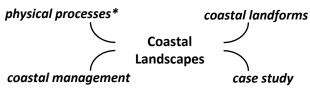


Coastal Landscapes

Weathering and Mass Movement







(All) Key Terms



Chemical weathering – The break down of rock due to chemical changes.



Landslide – Rapid mass movement of surface material down a slope.



Mass movement – The downhill movement of material under gravity.



Mechanical weathering – The breakdown of rock without chemical changes.



Rockfall – Fragments of rock break away from the cliff face.



Slumping – Cliffs slide down a curved slip plane.



Weathering – The breakdown of rock in situ

్లు:) Weathering

Weathering is the process of breaking up or dissolving rocks in situ. It is the physical and chemical breakdown of rocks and minerals at or near the Earth's surface.

ু:্ Types of Weathering

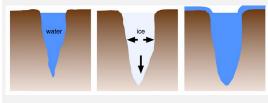
Chemical Weathering

Carbonation – Carbon dioxide, dissolved in rainwater forms a weak carbonic acid. This reacts with calcium carbonate (limestone and chalk) which forms calcium bicarbonate.

Hydrolysis – Acidic rainwater reacts with minerals in granite, causing it to crumble.

Oxidation – Oxygen dissolved in water reacts with iron-rich minerals causing rocks to crumble.

Mechanical Weathering Freeze-thaw



Salt weathering – crystals of salt grow in cracks and expand causing rock fragments to flake away.

Mass Movement

