

DELL







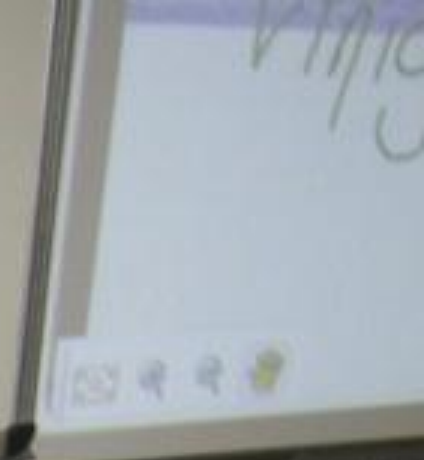








Weathering - breaking down of rock into smaller pieces
Mass Wasting - movement of broken rock down a slope





WHAT CHANGES THE EARTH'S CLIMATE?

EROSION

WEATHERING

BEFORE

AFTER



BEFORE

AFTER



- Weathering - breaking down of rock into smaller parts (physical or chemical)
- Mass Wasting - downslope movement of broken rock material due to gravity



BEFORE

AFTER

Two pictures taken from the same location at the University of California, Santa Barbara before and after a strong El Niño storm. This shows the erosional power of strong storms that are expected to increase in the future. The upper picture, taken in 1975, shows heavy growth of vegetation on the beach, and on and along the cliff in 1975. The beach was so stable then that a volleyball court was erected together with a concrete ring BBQ pit. The vegetation and sand protected the cliff from direct attack by ocean waves. In the lower image, taken in 1983 after a powerful El Niño, the vegetation and sand have been removed, and the waves are attacking the cliffs directly during a powerful storm.

Citation: SAG Sylvester, 1975 and 1983, used with permission



BEFORE

AFTER

