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RUDDIMAN, W. F. (ed.) 1997.

Tectonic Uplift and Climate ...

Tectonic-climatic interaction is the interrelationship between tectonic processes and the climate system. The tectonic processes in question include orogenesis, volcanism, and erosion, while relevant climatic processes include atmospheric circulation, orographic lift, monsoon circulation and the rain shadow effect. As the geological record of past climate changes over millions of years is sparse and poorly resolved, many questions remain unresolved

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balances of incoming and outgoing radiation, atmospheric circulation, ocean currents, and the location of elevated terrain suitable for glaciers and ice sheets.

Plate Tectonics and Climate Change | SpringerLink

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are mainly controlled by plateau and mountain uplift through their effect on the carbon cycle and atmospheric CO₂.

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The Neogene uplift of the Andes Mountains is expected to have caused extensive changes in South American climate, wind-driven oceanic surface circulation, and, hence, productivity by reorganizing the pattern of atmospheric circulation and the hydrological cycle.

TECTONICS AND CLIMATE

For example, more intense tectonic activity might cause the uplift of a large amount of calcium-silicate rocks to the surface, leading to an increase in the weathering rate. The atmospheric CO₂ concentration would then decrease, producing a general cooling of the climate system.

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Introduction to climate dynamics and climate modelling ...

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