

RECENT ENVIRONMENTAL EFFECTS BASED ON THE GEOLOGICAL PROCESSES FOR YUNNAN-GUIZHOU PLATEAU, CHINA

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The uplifting Himalayas has resulted in the development of a three-tiered landform in Southern China, and produced variable effects on the environmental change. The Yunnan-Guizhou plateau, as an eastern slope of the Himalayas, is located in the geological transfer zone between the Tibetan-Yunnan fold belt and the Yangtze pene-geoanticline. It is a distinctive environmental unit with great altitude gradients and complex landforms with subtropical climate influenced by both the southeastern (Pacific Ocean) monsoon and southwestern (Indian Ocean) monsoon. The environment in this region changes greatly on the scales of long, medium and short term. In order to understand the effects of the Himalayas uplift on the recent environmental change in the Yunnan-Guizhou Plateau, it is of tremendous significance to comparatively study the lake sedimentation and their watershed erosion in the different location of the plateau. In this paper, we present some results in following: ① the **SCREEN EFFECT** on global fallout and the **REMAIN EFFECT** on local atmospheric pollutants, ② the **ENHANCEMENT EFFECT** on the chemical weathering and the **STAIR EFFECT** on the mechanical erosion, ③ the **LOW LATITUDE - HIGH ALTITUDE EFFECT** on the allogenic geochemical processes.