

Changes in Indian monsoon in the Central Himalaya during the last interglacial and glacial period

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We carried out palynological and organic geochemical studies on the drilled core obtained from the Kathmandu Valley by the Paleo-Kathmandu Lake Project in 2000. As the results, outline of paleoclimatic and paleoenvironmental changes in southern slope of the Central Himalaya during the last one million year has been revealed. In order to clarify the paleoclimatic and paleoenvironmental changes during the last interglacial and glacial period at centennial scale, we undertook analyses at 10 cm interval. In this paper, we examine the relationship between vegetation changes on land obtained from palynological study and changes in the following geochemical data: TOC, C/N and $\delta^{13}C$, and discuss on the changes in Indian monsoon during the last 120 kyr, taking additional data on fossil charcoal into consideration.