

The limestones with normal marine fauna and thick with well preserved, burrowing-type indicate a quiet, relatively shallow shelf environment during the period of deposition. Lesser Himalaya In India, the Lesser Himalayan sequence is composed of Paleoproterozoic to Cambrian igneous and metasedimentary rocks and is divided into two parts, Paleoproterozoic—Mesoproterozoic Lesser Himalayan rocks 1900—1600 Ma and Neoproterozoic Lesser Himalayan rocks 1100—500 Ma , commonly referred as lower Lesser Himalaya and upper Lesser Himalaya, respectively ;. U—Pb dating of concordant leucogranite sills and discordant cross-cutting leucogranite dykes has tied down the timing of shearing along the STD to c.

Lesser Himalayan sequences in Eastern Himalaya and their deformation: Implications for Paleoproterozoic tectonic activity along the northern margin of India

Paleoproterozoic rocks are present underneath these Greater Himalayan rocks on the north and south sides of the klippe , and they are carried by the Rangarh-Munsiari thrust, which is folded along with the Main Central thrust sheet to form the klippe. The Diuri Formation is then overlain by the Setikhol Formation, which is characterized by feldspathic , , coal lenses and. Inset shows CL image of a separated zircon prior to analysis and an analytical location circle.

Lesser Himalayan Strata

HKT meetings were held in Kathmandu in 1994 and 2012, in Peshawar, Pakistan in 1998, in Gangtok, Sikkim in 2002, in Leh, Ladakh in 2008, and in Dehra Dun, India in 2015. For sample identifications, IZ—igneous zircon sample; DZ—detrital zircon sample.

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Main Central Thrust Sheet The Main Central thrust sheet carries Greater Himalayan rocks and is bounded by the South Tibetan Detachment system in the north and Main Central thrust in the south.

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