

Stratigraphy and correlations of lesser Himalayan formations - proceedings of the workshop

Hindustan Pub. Corp. (India) - Lesser Himalayan sequences in Eastern Himalaya and their deformation: Implications for Paleoproterozoic tectonic activity along the northern margin of India

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Notes: Includes bibliographical references.

This edition was published in 1980

Depositional Age	Formations this study	Formations from Upadri, 1996	Formations from Tater et al. (1983)	Other Tater et al. (1983) formations
Miocene	Dumri	Dumri	Sutari	
Eocene	Bhainskati	Bhainskati	Swat	
Carboniferous	Gondwanan Unit	Gondwanan	(not present)	
Paleocene	(not present)	Robang	(not present)	
Meso-proterozoic (?)	Malekhu	Malekhu	Lakharpati	
	Benighat	Benghat	Syanga	Sangram
	Dhading	Dhading	Galyang	Galyang
	Syanga	Nourpal	Nusudanda	Ghan Pokhara
	Galyang	Dandagaon	Kushma	Seti (Kuncha equivalent)
	upper Fagfog	Fagfog	Raninata	(to west) and Uller
	lo. Fagfog			
Paleoproterozoic	Kuncha (including metadiorite and metagranite)	Kuncha (including metadiorite and Uller metagranite)		



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Tags: #International #Research #Journal

#of #Earth #Sciences #: #Sequence #stratigraphic #study #of #lesser #Himalayan #succession #in #parts #of #Mussoorie #Syncline, #Dun #Valley, #Uttarakhand, #India

Lesser Himalayan Strata

The Main Central thrust and Ramgarh-Munsiari thrust sheets were emplaced on top of undeformed Lesser Himalayan rocks. Data were standardized to Sri Lanka zircon 563 ± 3 .

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Field photo of outcrop includes a 28-cm-long hammer lying on the road for scale.

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Ramgarh-Munsiari Thrust Sheet The Ramgarh-Munsiari thrust is a crustal-scale intra-Lesser Himalayan thrust that carries Paleoproterozoic Ramgarh and Munsiari Formations and forms the floor thrust of a coupled roof thrust system of the Lesser Himalayan duplex. We estimated the true thickness of the individual thrust sheets from the mean foliation dip of the thrust sheet, exposed outcrop width of the thrust sheet, and slope of the transect. Thus, the Berinag thrust again occupies a similar structural position as the Ramgarh-Munsiari thrust.

Stratigraphy of the Lesser Himalayan rocks in Kumaun

A broad syncline exposes the Neoproterozoic-Cambrian Lesser Himalayan Blaini and Krol Formations west of the cross-section line in the down-plunge direction. This would result in shallowing towards, and reduced on the palaeohigh, which coupled with the probable distal nature of

the basin, therefore, explaining the thin sequences of the western intermediate structural level localities.

Lesser Himalayan Strata

The age spectra show clusters around ca. The Subathu Formation rocks were deposited during the suturing and initial collision of India and Eurasia. Minimum bed lengths were used in the cross section to minimize shortening, assuming that the hanging-wall cutoffs are immediately above the present-day erosional surface.

Lesser Himalayan Strata

Abundant are found in the Taltung Formation, and they are dated to the to the. Below the ductile MCT zone, rocks of the Lesser Himalaya contain brittle fold and thrust structures, typical of shallow-level fold-and-thrust belts.

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Himalayan Tectonics—A Modern Synthesis The justification for the current volume in some ways goes back to the success of the 1993 Himalayan Tectonics volume, which provided a remarkably broad ranging set of papers that covered the full range of geography and science that the Himalaya provide us with. Consequently, the Subathu Formation is only partially preserved in the Krol nappe and under the Garhwal thrust, and unconformably overlies the Tal Formation.

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