Physical Research Laboratory

Tuesday Seminar

A discussion on controls on the Quaternary glaciation in the NW Himalaya

Abstract

Himalayan glaciation show inter-regional variability on centennial to multi-millennial timescales where the glaciers are fed by two major weather systems – the Indian summer monsoon (ISM) and the mid-latitude westerlies. It is suggested that the terrain that lies in the influence of mid-latitude westerlies (NW Himalaya) should respond in accordance with the northern latitude glaciation, where as those that are located in ISM dominated region (central/eastern Himalaya) should be modulated by the winnowing and waxing of the ISM. In addition to this, there is also suggestion that glaciers located in the orographically shielded region (Trans Himalaya) are sensitive to the precipitation changes whereas those in the trajectory of the ISM are temperature sensitive. In order to understand the pattern of glaciation in the Himalayan region, one need to take into consideration, the above variability that is further modulated and controlled by the Himalayan topography and local factors.

In the presentation, I would be giving an over view of the current understanding of late Quaternary glaciation in Himalaya along with presenting our studies from the Nubra (Siachin), Zanskar and Sarchu plain in the westerlies dominated NW Himalaya.

Speaker: Dr. Shubhra Sharma
PDF, GSDN

Date	Time	Venue
28-November-2017	16:00 hrs	Ground Floor Lecture Hall

All are invited to attend and participate in discussion

Tea at 15:30 Hrs

A .K. Sudheer, Geosciences Division