



## History of glaciation of the Misgar Valley, Karakoram, Pakistan

S. Meiners

University of Goettingen, Institute of Geography, Goettingen, Germany (smeiner@gwdg.de)

The Misgar Valley north of the Karakoram main ridge at the southern border to the Pamir Plateau has been formerly glaciated during the Last Glacial Maximum. While the Late Glacial relicts can be reconstructed clearly the younger glacial history of the Neoglacial and the Postglacial are strongly influenced by periglacial processes. Because of the cold and dry climate frost weathering is the dominant process in that area lying completely about 3500 m with average temperatures belonging to the discontinuous permafrost. There are three passes which leads to the Pamir area. Glacial indicators shows that the Kilik Pass 4850 m must have been overflowed by ice during the LGM and the Late Glacial. We can assume an ice contact to the Karakoram main ice stream as postulated by Kuhle. Recently one of the seven glaciers in the upper Kilik valley, the small Hapushan bare ice glacier with an catchment area height of c. 5600 m comes to an end at 4400 m and is in a strong advance.