

Preliminary Study Result of Glacier and Glacier Lake Variation in Middle Himalaya

XIAOYIN GUO and CUNDE XIAO

Chinese Academy of Meteorological Sciences, China

Mountain glacier, as an important indicator of climate change, has been given much more attention. Glacier study of Himalaya not only helps us understand climate change, but also contributes to the relationship between glacier and international rivers which originated from Himalaya. As part of glacier variation research in Himalaya Mountains, three stages (1990, 2000 and 2005) glaciers and glacier lakes in middle Himalaya were mapped. Most glaciers retreated while there were some glaciers enlarged and some have no change both in north slope and south slope. But the glacier variation between north slope and south slope had some differences. Glacier lake variation was more complex than glacier, especially in south slope. The different glacier and glacier lake variation between north slope and south slope may relate to different climate change trends. Further study is needed.