

Status of Glacier Area Mapping for Discharge in Asian Mountains Project

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The mean sea level has been risen in recent decades as a result of global warming. The largest contributions to sea level rise are come from thermal expansion and the melting of mountain glaciers and icecaps. And mountain glacier is significant role for water resources in particular arid regions.

Altitudinal distribution of glacier area is required to estimate glacier volume change, although, the information on glacier distribution are limited only glacier area or location at present. Large difference, therefore, can be found between actual glacier volume change and calculated value assuming the altitudinal distribution of glacier area.

Then, the purpose of this project is to estimate contribution of glacier runoff to river runoff would be elucidated by establishing data set of altitudinal distribution of glacier area in the Asian High Mountains.

In this presentation, we will introduce the status of our glacier mapping and the result of the analysis of altitudinal distribution of glacier area.

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