



Characteristics of a sediment behaviour in debris gorge in the Western Pacific Region

Goro Mouri (1) and Sergey Chalov (2)

(1) Institute of Industrial Science, University of Tokyo, Japan (mouri_goro@yahoo.co.jp), (2) Faculty of Geography, Lomonosov Moscow State University, Russia

Fluvial sediment behaviour of the debris gorges are common in the volcanically active mountainous environment of the Western Pacific Region. Our study shows that the effects of gorges on the variation of the debris of the Western Pacific Region cause differences based on the environmental context. For instance, global warming is expected to change mountainous river discharge, snowmelt, and sediment behaviour, but predictions are uncertain. Therefore, baseline knowledge in the volcanically active mountainous environment of the Western Pacific, and their impact, are essential for the adaptation of environmental change, and so on. The significance of spatiotemporal differences in the volcanically active mountainous environment of the Western Pacific Region has not been established in the mountainous valley-belt of the region. In this study, we report the characteristics of a debris gorge in the volcanically active mountainous environment of the Western Pacific, focussing on the Polustrov Kamchatka.