

Applying Snowmelt Model to a Slope Snowpack in Snowmelt Season

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In order to evaluate the risk of slope disasters caused by snowmelt water in the early spring, it is important to evaluate the amount of snowmelt water flowing out from a bottom of slope snowpack. In consideration of the application to the area along the railway lines, we have developed a model that enable us to estimated the outflow from the snow bottom using only AMeDAS weather data. In this model, it is possible to estimate the outflow from the snow bottom on the slope considering the effect of the slope aspect and slope inclination. As a result of the comparison between the observation value and the estimated by the model, it was confirmed that estimated the outflow were good agreement with observed value.