

HGM005-P07

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## Subsurface-water flow on steep slopes underlain by different bedrocks

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Difference in subsurface-water movements due to lithology is investigated in three regions underlain by five bedrocks. One region is located in Mt. Kano-zan, Chiba prefecture, where one slope underlain by sandy mudstone is studied. The second region is located in Mts. Taiga, Ibaraki prefecture, where two slopes are studied. One slope is underlain by biotite granite and the other slope is underlain by hornblende biotite granite. The third region is located in southwest Hidaka district, Hokkaido prefecture, where two slopes are studied. One slope is underlain by conglomerate and the other slope is underlain by tuffaceous mudstone. The subsurface-water movements in these slopes are measured using tensiometer. Observation results indicate that the subsurface-water movements change due to both soil-layer structure and soil physical properties derived from lithology.

Keywords: subsurface-water flow, slope failure, granite, mudstone, conglomerate