

Research regarding application characteristics of glide plane to landslide in snow covered areas

[Point]

This research aims to clarify glide planes stress state to landslide in snow covered areas, and glide plane clay's strength characteristic to contribute clarification of landslide developmental mechanism and the control project plane. In the research regarding clarification of glide planes stress state, we performed the indoor test of earth pressure meter burying method, based on the result, we performed the field observation by burying an earth pressure meter and a pore pressure meter around landslide test slope. Moreover, regarding landslide developmental mechanism, we added researches in Niigata Landslide Research Center to present research of glide plane clay shear characteristics, and examined. As a result, as for the first one, we could grasp the change of stress state around glide plane of slope in land sliding. As for the latter one, based on shearing characteristics of glide plane clay, we showed possibility of the explanation regarding developmental mechanisms of rock site landslide and clay in tertiary deposit landslide area.

Keyword : landslide, glide plane, stress state, landslide developmental mechanism