

Structural evolution of the shear zone in landslide area during a nucleation

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A nucleation process of the shear zone was measured at the landslide area, western Shikoku. Although the deformation mechanism was difference, comparison study between the slip behavior, physical change and structural evolution of the rock may clue to understand the nucleation of the fault. The landslide area slides at the rain season due to increase of the pore-fluid pressure at the shear zone. Detail slip behavior was measured by high resolution clinometer during the heavy rain with typhoon. The successive process from the dilation to the localization of the shear zone was observed.