

Development of landslides in the last 50 years inferred from aerial photographs in the Haibara River area, central Japan

Hiromu Daimaru[1]; Ushio Kurokawa[1]

[1] FFPRI

Development of landslides was monitored by using orthorectified aerial photographs for the last 50 years in the Haibara River Basin which locates at the upper reach of the Oigawa River, central Japan. The study area is underlain by the Cretaceous Shimanto Group (alternation of sandstone and shale) trending NE-SW and dipping northwest ward (40-80 deg.). Significant portion of the large landslides occurs on the southeast facing back slopes and suggests influence of deep-seated rock creep. Some large landslides have newly occurred in the last 30 years. Some preceding longitudinal shallow landslides were recognized along the newly formed landslide scars.

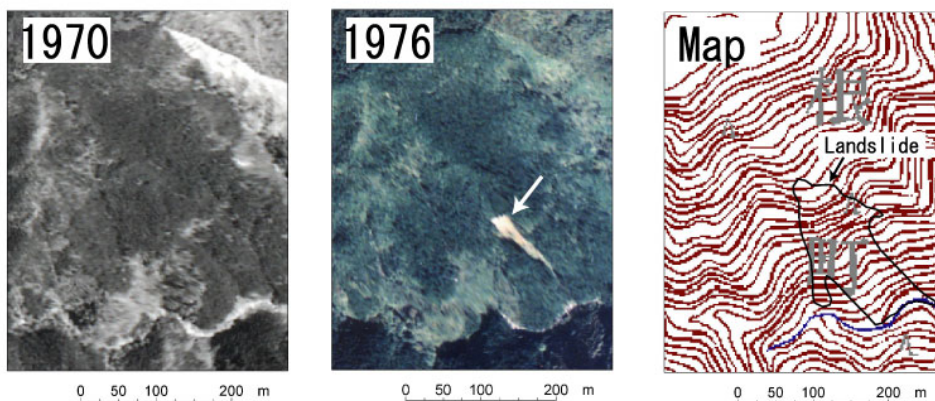


Fig. Ortho-photographs and a contour map showing a landslide occurred between 1985 and 1997. A preceding small landslide (white arrow) is recognized in the 1976 aerial photograph.