Y157-006 Room: 101A Time: May 29 14:47-14:59

Movement History of Tsukinokawachi-landslide caused by heavy rainfall associate with Typhoon 0514, Miyazaki, Japan

Ken-ichi Nishiyama[1]; Shinichi Kitamura[2]; Seiji Takaya[3]; Keizou Suzuki[4]; Shinji Nagaoka[5]

[1] Tokushima Univ.; [2] Natural Environment Sciences, Tokushima Univ.; [3] Environment, Minamikyushu Uni.; [4] Nankyu Univ Hortical of Conserv; [5] Dep.Geography,Fac.Education,Nagasaki University

Many landslides and slope failures triggered by heavy rainfall associated with Typhoon 0514 occurred in Miyazaki, Japan. Tsukinokawachi-landslide is one of the huge landslides distributed in Nichinan Mountains formed landslide dam.

The slide block of Tsukinokawachi-landslide is overlain by several marker tephra layers such as A-Ot (32.5 ka), A-Fm (31 ka), AT (27 ka) and K-Ah (7.3 ka). Therefore, movement history of Tsukinokawachi-landslide was estimated based on tephrochlonology. These tephra layers (AT and K-Ah?) mantling on the slopes consist of the slide block, but lower pumice tephra layer (A-Fm?) is very crooked at the sliding surface of the landslide. The occurrence of tephra layers suggest that former movement of Tsukinokawachi-landslide occurred between 31 and 27 ka.