

MTT035-P04

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Interpretation of landslides in Atsumi Peninsular, Japan using aerial photographs taken in Dec 1944

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In the middle Atsumi Peninsular, Japan on 10 Dec 1944, reconnaissance flight by United States Armed Forces gave 1/16,000 black-and-white aerial photographs from 9,700m. Many shallow slope failures were interpreted on the photographs; in this study the mapping result will be shown to understand characteristics of the failures' distribution. Three days before the shooting date, Tonankai earthquake (M7.9) occurred that affected from Kumano-nada to Enshu-nada (offshore region of southwest Japan); therefore, there is the possibility that the earthquake triggered the failures. For this study we used Grants-in-Aid for Scientific Research, Research Project Number:19651077 "Development of validation method to investigate disaster conditions by 1994 Tonankai earthquake and so on that occurred around the end of World War II using United States Armed Forces' aerial photographs stored in U.S. NARA (National Archives and Records Administration)" (Principal investigator: Prof. Yasuhiro Suzuki, Nagoya Univ.).

Keywords: 1944 Tonankai earthquake, U.S.Armed Forces, Aerial photographs, Interpretation, Slope failures