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Meteorological, geomorphological and geological features of slope failures caused by heavy rainfall

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Many slope failures and debris flows triggered by heavy rainfall associated with Typhoon 0410 (Namtheun) occurred in Nakagawa area, Tokushima, Japan on July 31st to August 1st, 2004. Extra-ordinary intense heavy rainfall was recorded in this area. Many slope failures occurred at steep mountain slopes, which consist of accretionary complex. Distribution of slope failure is closely related to total amount of rainfall, topographical features and geological features.

Keywords: slope failure, heavy rainfall, Typhoon, Tokushima