屏東滿州鄉近年土石流致災成因探討

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摘　　要　近年因極端氣候，形成短延時高強度或長延時高累積降雨，均為易發生土石流及崩塌災害之致災因子，屏東縣滿州鄉內 2 條土石流潛勢溪流(屏縣 DF064、屏縣 DF070)於民國 100 年南瑪都颱風及民國 101 年天秤颱風分別發生大規模之土石流災害，並造成下游多戶民宅遭土石流淤埋。本研究於災後進行實地勘查，並依集水區地形、地質、水文等相關條件因子及遙測影像進行分析，期進一步探討近年滿州地區颱風事件所造成土石流之成因，並進行差異性的比較，以期能掌握未來災害實際發生情境，達到防災、減災之成效。

關鍵字: 土石流、滿州鄉、災後調查、影響範圍

Analysis of Debris Flow Hazard Triggering Factors During Recent Events in Manjhou, Pingtung

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ABSTRACT High intensity rainfall in short period and high accumulation rainfall in long period had become the main causes of debris flow and landslides in recent years, because of extreme weather effects. Debris flow events were observed in two debris flow potential torrents (Pingtung DF064 and Pingtung DF070) in Manjhou, Pingtung in 2011 and 2012. During Typhoons Nanmadol and Tembin, debris flow caused the damage and destruction of several buildings. This study conducted field investigation after the events, and analysis the topography, geology, hydrology data together with remote sensing images in the catchments, and discussed the possible triggering factors and the characteristic of the torrents for further comparison. The result of this study could provide better information for hazard assessment and mitigation in the future.

Key Words: Debris flow, Manjhou Township, disaster investigation, inundation area.

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