

臺北市土石流潛勢溪流巡勘及防災監測系統之機制

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摘 要 鑑於近年來全球暖化情形日益嚴重，極端型氣候及超大豪雨經常出現，導致水災或坡地土石流災害發生頻仍。而臺北市轄區內約 55%面積為山坡地，且地形陡峭、地質破碎，極容易發生土石流災害。依據行政院農委會水土保持局調查公佈資料，臺北市境內共有 50 條土石流潛勢溪流，其中經調查評估結果屬高、中及低潛勢等級之土石流潛勢溪流數目為 21 條，其餘 29 條則列為持續觀察溪流。為能瞭解本市土石流潛勢溪流之狀況，除針對本市境內 50 條土石流潛勢溪流進行溯溪之細部調查外，並辦理土石流潛勢溪流定期性(5 月及 11 月)及颱風期間(或豪大雨過後)機動性巡勘工作，於颱風豪雨期間更配合臺北市所設置之 11 處土石流監視儀器，專人監測此 11 處土石流觀測影像，藉由即時影像傳輸及現場巡勘人員回報，事先發現溪溝潛在危險問題，據以改善處理，期能降低土石流災害發生之風險。

關鍵詞：巡勘、土石流、監測系統。

Inspection of Potential Debris-Flow Torrents and Mechanism for Disaster Prevention and Monitoring System in Taipei City

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ABSTRACT Whereas in recent years the situation worsening global warming, extreme weather and torrential rain type frequently, resulting in flooding or landslides occur frequently. In Taipei, the area is about 55% of the area hillsides and steep terrain, geology broken, very prone to debris flow hazards. Based on the Council of Agriculture Soil Conservation Service survey published information, a total of 50 domestic and Taipei potential debris flow streams, which after investigation the assessment result is high, medium and low potential level of the number of potential debris flow stream 21, and the remaining 29 as the continuous observation of the streams. To understand and realize conditions of potential debris flow torrents in Taipei city, we not only investigate regularly these torrents throughout, but also do flexible investigations on these torrents during May to November, when storms and heavy rainfalls are popular and frequent. Even during a typhoon with heavy rains set in Taipei's 11 landslides surveillance equipment, personal monitoring landslides observed this 11 images, with real-time video transmission and field survey personnel patrol returns Gully found potentially dangerous problem in advance, in order to improve the handling of data , expect to reduce the risk of debris flow hazards occurred.

Key Words: Debris flow, Investigate, CCD.

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