

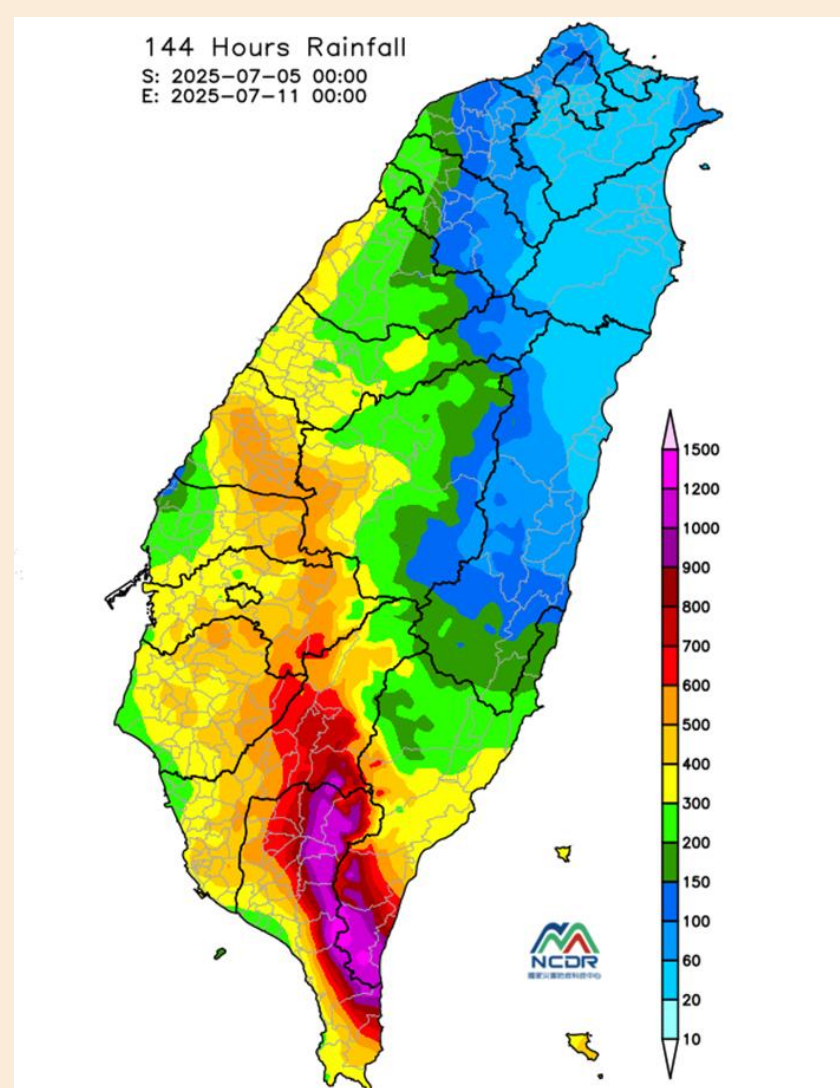
114年土石流及大規模崩塌 防災整備與警急應變計畫

近年極端降雨與颱風事件頻繁，土石流及大規模崩塌已成為影響山區及鄰近聚落安全的重要災害類型。為提升轄區面對土砂災害之整體應變能力，農業部農村發展及水土保持署臺南分署推動本計畫，結合中央與地方力量，以軟體避災為主要策略，透過建立警戒避難機制，在災害來臨前適時疏散民眾，降低人命傷亡，系統性強化防災整備、災中應變與社區防災等面向。

汛期中應變

本計畫計畫工作範圍涵蓋分署轄內臺南、高雄、屏東三縣市，本年度共因應8場颱風及豪雨事件，協助應變小組開設12場次，完成災情蒐集、通報彙整與防災會報資料製作。透過專案團隊即時支援，使防災決策能掌握第一手資訊，有效降低災害風險。

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3		07/09 13:01 07/12 15:25	二級開設
4	薇帕颱風	07/18 11:30 07/19 17:30	二級開設
5	0728豪雨	07/28 13:00 08/02 21:00	二級開設
6		08/02 21:00 08/05 07:00	一級開設
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防災人力培訓與專業提升

本年度共辦理6場防災教育訓練及講習、完成2場土石流防災專員回訓暨增能訓練，旨在增進臺南分署轄區內各鄉鎮市之防災共識與互動、促進土石流及大規模崩塌防災應變作業交流，亦強化各層級之間的防災意識。

地方政府與社區防災推動

協助轄區內縣市政府整理及提供相關審查資料，完成3場平時訪評。並參與多場實兵演練與兵棋推演，紀錄演練資料與提供意見評估，以強化自主防災社區執行效益，協助地方檢視防災流程與角色分工。



土砂災害評估與科技應用

就分署轄區內新增或曾發生重大土砂災害、地貌變異性較大或機關指定地區進行勘查，完成5處坡地土砂災害緊急評估，並同步辦理5處無人載具(UAV)空拍作業。



民族橋



東莊橋



高市DF053



光明巷



霧大二號橋

本年度執行成果顯示，轄區內多數易致災地區之區長、鄉鎮長、村里長及社區成員，對於土石流及大規模崩塌災害已有基本認識，防災工作推動整體順利。後續防災宣導工作將持續針對高風險社區、易致災區域及學校持續推動，並依不同對象調整宣導方式與內容，以避免防災觀念隨災害空窗期而鬆動。

而防災人力之經驗傳承與應變能力提升，已成為未來防災工作之重要課題，未來防災專員相關課程可持續深化，納入資深專員實務經驗分享，並增加災害應變案例解析及資通訊工具操作教學，以提升防災專員及地方政府人員於災中情境下之實際應變能力。未來將持續延續本計畫成果，深化地方防災能力，強化科技應用與社區參與，逐步建立更具韌性之土砂災害防救體系，確保人民生命財產安全。



農業部農村發展及水土保持署
Agency of Rural Development and Soil and Water Conservation, MOA

委託機關：農業部農村發展及水土保持署
受託單位：財團法人成大研究發展基金會
執行期間：114年2月 - 114年12月



優質・效率・團隊

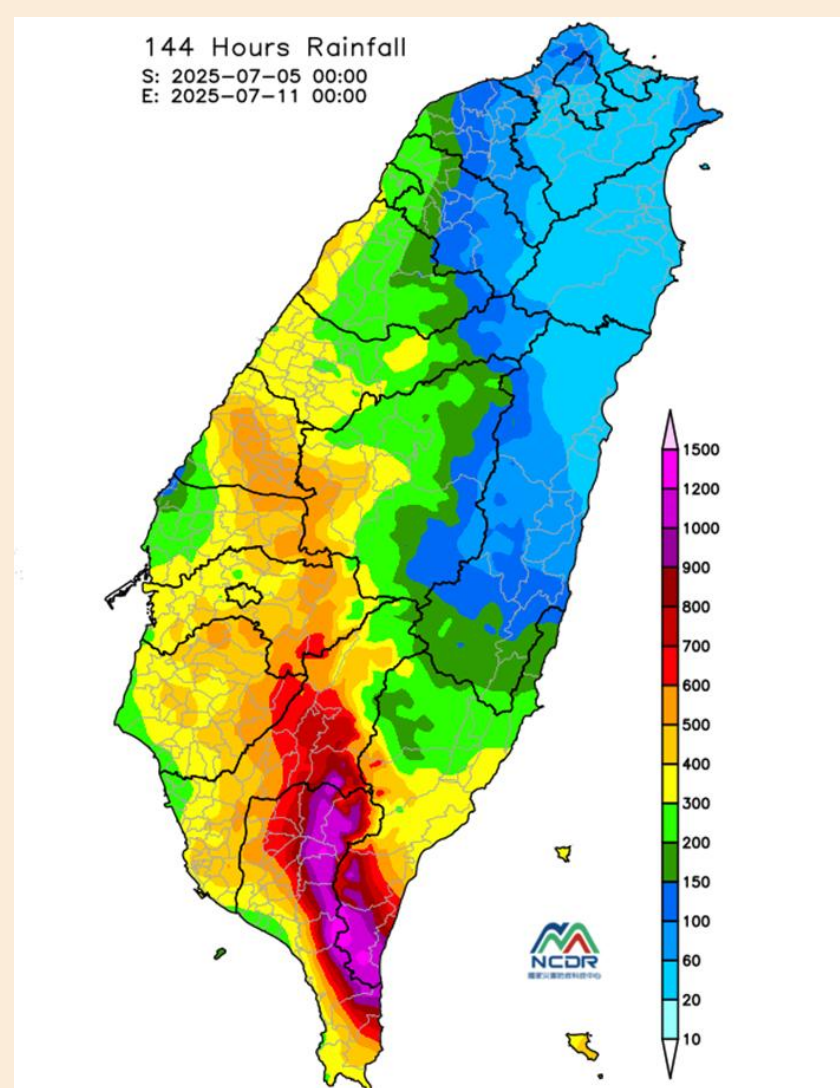
Disaster Preparedness and Emergency Response Plan for Debris Flows and Large Scale Landslides of the Tainan Branch in Fiscal Year 2025

In recent years, extreme rainfall and typhoon events have occurred with increasing frequency. Debris flows and large-scale landslides have become major hazard types threatening the safety of mountainous areas and adjacent communities. To enhance overall sediment-disaster response capacity within its jurisdiction, the ARDSWDC has implemented this program. By integrating central and local resources and adopting non-structural disaster mitigation as the core strategy, the program establishes warning and evacuation mechanisms to facilitate timely evacuation prior to disaster onset, thereby reducing casualties. The initiative systematically strengthens disaster preparedness, emergency response during events, and community-based disaster prevention.

Emergency Response During the Flood Season

During this year, responses were conducted for a total of eight typhoon and heavy rainfall events. The project team supported emergency response units in activating 12 response operations

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Workforce Training and Professional Capacity Building

A total of six disaster prevention education and training sessions were conducted this year, along with two refresher and capacity-building training programs for debris flow disaster prevention specialists.

Local Government & Community-Based Disaster Prevention

The project participated in multiple field exercises and tabletop simulations, documenting exercise data and providing evaluative feedback.



Sediment Disaster Assessment and Application of Technology

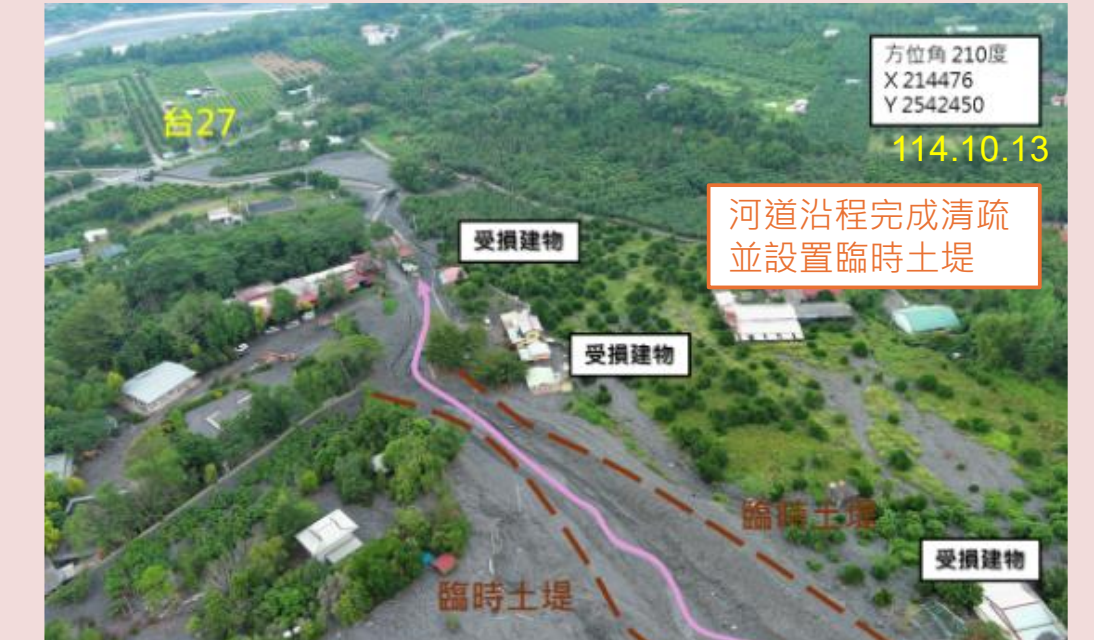
Emergency assessments of slope-related sediment disasters were completed at five locations, alongside five unmanned aerial vehicle (UAV) aerial survey operations.



Minzu Bridge



Dongzhuang Bridge



Kaohsiung City DF053



Guangming Lane



Wuda No. 2 Bridge

The implementation results of this year indicate that district chiefs, township heads, village leaders, and community members in most disaster-prone areas within the jurisdiction have established a basic understanding of debris flow and large-scale landslide hazards. Overall, disaster prevention initiatives have progressed smoothly. Future disaster prevention outreach will continue to focus on high-risk communities, disaster-prone areas, and schools, with communication approaches and content tailored to different target audiences to prevent the erosion of disaster awareness during disaster-free periods. Moving forward, the outcomes of this program will be sustained to further strengthen local disaster prevention capacity, enhance technological applications and community participation, and progressively establish a more resilient sediment disaster prevention and response system to safeguard lives and property.

Organizer: ARDSWC

Implementer: NCKU R&D Foundation

Duration: February to December, 2025



農業部農村發展及水土保持署
Agency of Rural Development and Soil and Water Conservation, MOA



優質 · 效率 · 團隊