

# 致災環境監測應用與世界重大災害特性探討

## The Application of Disaster Monitoring and the Case Study of World Major Disasters

主管單位：國家災害防救科技中心

蘇元風 林又青 施虹如 傅鏗漩 林聖琪 王俞婷 張志新

### 摘要

隨著全球災害事件簿網站開發完成，災防科技中心將對於世界重大災害型資料蒐整與評析，持續將過去的歷史災害事件彙整於全球災害事件簿網站，除此之外，本專案隨時專注國際災害事件新聞、掌握災害脈動。另一方面，國內災害潛勢地圖網站將持續更新各部會所公開的新版災害潛勢地圖，例如：水利署的第三代淹水潛勢圖。

除了災害事件紀錄外，在坡地觀測資料的視覺呈現、特性解析也是本專案的研發項目之一，相關資料包含：地下水位、降雨、地滑、位移、土壤含水量、濁度監測等，本項子計畫擬運用各項監測資料進行資料清洗、資料解析，探討各項環境監測數據與災害之關聯性。

此外，過去所發展的遙測技術，例如：CCTV 偵測山區洪水、光學影像偵測山區漂流木、雷達影像監測地表位移等技術，將持續發展並嘗試應用於災害監測與應變等任務。

**關鍵詞：**災害潛勢地圖、災害事件簿、遙測技術應用

### Abstract

With the development of the chronicle of disaster website, the NCDR will analyze the major disaster in the world, and continue to collect historical disaster events. On the other hand, the disaster potential map website will continue to update the new version of the disaster potential data published by various government agency, such as the third generation flood potential map from the water resources agency.

In addition to the disaster records, the visualization of the observation data at the field are also the purpose of this project. The relevant data includes: groundwater level, rainfall, ground slip, displacement, soil moisture content, turbidity monitoring, etc. The sub-plan intends to use various monitoring data to explore the correlation between various environmental monitoring data and disasters.

In addition, telemetry technologies developed, such as CCTV to detect mountain floods, and optical images to detect mountain areas driftwood and radar image monitoring of surface

displacement and other technologies will continue to develop and try to be applied to disaster monitoring and response tasks.

**Keywords : Disaster Potential Map, Chronicle of Disaster, Telemetry technologies**

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