

汶川地震坡地災害勘查與集集地震比較探討

陳聯光^[1] 陳樹群^[2] 周憲德^[3] 王文能^[4] 林銘郎^[5]

摘要 2008年5月12日中國大陸四川省汶川縣於當地時間下午2點28分，發生規模Ms8.0的地震（以下稱汶川地震），震央位於北緯31.0°、東經103.4°，位於成都市西北西方約70公里，距離重慶市約360公里，震源深度約19公里。據中國國務院抗震救災指揮部統計汶川地震已造成四川、甘肅、陝西、重慶、雲南、湖北、河南、貴州、山西、湖南等10省（市）417個縣（市、區）受災；造成69,225人遇難，374,640人受傷，失蹤17,939人。房屋倒塌超過778萬間，房屋損壞超過2459萬間。四川省境內因汶川大地震影響，估計造成了超過130個堰塞湖，其中34處有災害危險的堰塞湖，倘若潰堤，將危及下游百萬人的性命，對於地震所引致山坡地之崩塌與堰塞湖更是二次災害發生重要的原因。本文以汶川地震重大坡地現地調查結果與921集集地震進行相關比較，探討汶川地震未來坡地災害所可能面臨之問題。

關鍵詞：汶川地震、集集地震、堰塞湖、減災策略、二次災害。

A Comparison of Wenchuan Earthquake with Chichi Earthquake for Slope Land Disaster Investigation

Lien-kuang Chen^[1] Su-Chin Chen^[2] Hsien-Ter Chou^[3]
Wen-Neng Wang^[4] Ming-Lang Lin^[5]

ABSTRACT The Shchuan earthquake was also known as Wenchuan Earthquake, which measured at Ms8.0 occurred at 14:28 on May 12, 2008 in Sichuan province, China. The epicenter was at N31.0/E103.37, which was 70 km west-northwest of Chendu and over 360km from Chongqing, with a depth of 19km. This earthquake also caused damage in nearby over ten provinces and 417 counties, including Sichuan, Gansu, Haanxi, Chongqing, Yunnan, Hubei, Henan, Guizhou, Shanxi, and Hunan. Official figures (as of August 11, 2008 12:00) stated that 69,225 people were confirmed dead, 374,640 people were injured, with 17,939 listed as missing. The earthquake caused over 7.78 million buildings to collapse, and caused damage to

-
- [1] 國家災害防救科技中心助研究員
Senior Assistant Research Fellow, Slopland Disaster Reduction Division, National Science and Technology Center for Disaster Reduction, Taipei 231, Taiwan, R.O.C.
- [2] 國立中興大學水土保持系教授(通訊作者)
Professor, Department of Soil and Water Conservation, National Chung-Hsing University, Taichung 402, Taiwan, R.O.C.
(Corresponding Author)
E-mail:scchen@nchu.edu.tw
- [3] 國立中央大學土木系教授
Professor, Department of Civil Engineering, National Central University, Chung-Li 320, Taiwan, R.O.C.
- [4] 前工研院能資所研究員
Past Researcher, Energy and Environment Research Laboratories, Industrial Technology Research Institute, Hsin Chu 310, Taiwan, R.O.C.
- [5] 國立臺灣大學土木系教授
Professor, Department of Civil Engineering, National Taiwan University, Taipei 106, Taiwan, R.O.C.