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## New Identification Method for Geological Hazard Source in Mountainous Areas: A Case Study on the Key Area in Panguan Town, Panzhou City, Guizhou Province

LENG Yang-yang<sup>1,3</sup>, WEI Lun-Wu<sup>2</sup>, LAI Qi-Yi<sup>3</sup>

(1. Guizhou Institute of Geo-environment Monitoring, Guiyang 550081, Guizhou, China; 2. Chengdu Center of Geological Survey, China Geological Survey, Chengdu 610081, Sichuan, China; 3. Chengdu University of Technology, Chengdu 610059, Sichuan, China)

[ **Abstract** ] Based on the Detailed Investigation of Geological Hazards and the Demonstration Project of Risk Assessment in key areas of Guizhou province. Taking the key area of Panguan town in Panzhou City as an example, this paper puts forward an innovative method for distinguishing geological hazard risk, which includes dividing slope units, calculating geological hazard proneness and its threshold value index, estimating the risk source of per geological hazard, compiling hazard distribution map of geological hazard in the study area. Relying on distribution map of the geological hazard sources and combining with the frequency of different rainstorms, the range of hazardous sources of geological disasters can be predicted and the distribution map of dangerous areas and sources can be compiled. and the meteorological forecast of geological hazard risk in key areas can be more scientific and reasonable according to the relationship between rainfall intensity and rainstorm frequency.

[ **Key Words** ] Mountainous areas; Slope units; Geological hazard; Identification method

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(贵州省地质学会、贵州省地质博物馆供稿)