An Introduction of the Delineation of Active Fault Geologically Sensitive Areas in Taiwan

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Abstract

Taiwan is located in an ongoing orogenic belt, which results in frequent seismic activity and many active faults in Taiwan. How to mitigate the hazards from active fault is always the great issue for us. Based on the Geology Act, Ministry of Economic Affairs has announced four types of the geologically sensitive areas, including active fault. If the land is located in the geologically sensitive areas, some specific site investigation followed the Geology Act should be done by the land developer before land use. This work aims at providing basic geological information, safeguarding lives and properties, reducing the risk of geological hazards and ensuring a sustainable development of the environment. The task of the first phase of delineating and announcing geologically sensitive areas nationwide is scheduled for completion in 2017. There are 15 active fault geologically sensitive areas have been announced from 2014 to 2017. However, the further investigations on active fault will keep on going to get more information for subsequent assessment of other active faults.

Keywords: Active faults, Active fault geologically sensitive areas, Geologic site survey, Geologic safety assessment