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G-EVER Earthquake and Volcanic Eruption Risk Management Activities and Asia-Pacific Region Hazard Mapping Project

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The Asia-Pacific Region Global Earthquake and Volcanic Eruption Risk Management (G-EVER) Consortium among the geo-hazard research institutes in the Asia-Pacific region was established in 2012. G-EVER aims to formulate strategies to reduce the risks caused by earthquakes, tsunamis and volcanic eruptions worldwide. The First Workshop on Asia-Pacific Region Global Earthquake and Volcanic Eruption Risk Management (G-EVER1) was held in Tsukuba, Japan from February 22 to 24, 2012. During the workshop, the G-EVER1 accord was approved by the participants. The Accord consists of 10 recommendations such as; enhancing collaboration, sharing of resources, and making information of the risks of earthquakes and volcanic eruptions freely available and understandable. The G-EVER Hub website was setup to promote the exchange of information and knowledge about volcanic and seismic hazards among Asia-Pacific countries. Establishing or endorsing standards on data sharing and analytical methods is important to promote data and analyses results sharing. The major activities of G-EVER include participation in global risk reduction efforts such as the Integrated Research on Disaster Risk (IRDR) Program, Global Earthquake Model (GEM) and Global Volcanic Model (GVM). The 2nd G-EVER International Symposium and the 1st IUGS&SCJ International Workshop on Natural Hazards was held in Sendai, Tohoku Japan on October 19-20, 2013. We endorsed Sendai Agreement during the symposium (http://g-ever.org/en/sendai/). Several G-EVER Working Groups and projects were proposed such as; (1) Risk mitigation of large-scale earthquakes WG, (2) Risk mitigation of large-scale volcanic eruptions WG, (3) Next-generation volcanic hazard assessment WG, and (4) Asia-Pacific region earthquake and volcanic hazard mapping project.

The Asia-Pacific region earthquake and volcanic hazard mapping project aims to make an advanced online information system that provides past and recent earthquake and volcanic eruption information (e.g. age, location, scale, affected areas and fatalities) and risk assessment tools for earthquake and volcanic eruption hazards. A printed map will also be published as the new version of the Eastern Asia Geological Hazard Map of the Commission for the Geological Map of the World (CGMW). The online hazard mapping system will provide useful information about earthquake and volcanic hazards in an interactive and user-friendly interface. Past and recent large-scale earthquakes and volcanic eruptions, tsunami inundation areas, and active faults distributions will be shown on the map. Links to major earthquakes and volcanic eruptions databases will be available in the system. The earthquake and volcanic eruption hazard mapping project will be implemented with the cooperation of major research institutes and organization in the Asia-Pacific region such as PHIVOLCS, CVGHM, GNS Science, EOS, USGS and CCOP.

Keywords: Earthquake, Volcano, Risk, Hazard, Hazard Map, Asia Pacific

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