

GSC020-P04

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Earthquake Catalogs at the web site of the IISEE, BRI

Tatsuhiko Hara^{1*}

¹IISEE, BRI

We introduce two earthquake catalogs that are available at the web site of the IISEE (International Institute of Seismology and Earthquake Engineering) of the BRI (Building Research Institute). The one is "IISEE's CMTs, Aftershock Distributions, Fault planes, and Rupture processes for recent large earthquakes in the world". This is the output of our project in which we determine centroid moment tensors, aftershock distributions, corresponding fault planes, and rupture process models for recent large (M_w larger than or equal to 7.2) earthquakes in the world by the analytical techniques developed by the IISEE staff members and visiting researchers. They are available at http://iisee.kenken.go.jp/eqcat/Top_page_jp.htm and http://iisee.kenken.go.jp/eqcat/Top_page_en.htm, in Japanese and English, respectively. The other is "Catalog of Damaging Earthquakes in the World", which Dr. Tokuji Utsu, Professor Emeritus of Tokyo University, compiled and the IISEE (International Institute of Seismology and Earthquake Engineering) of the BRI (Building Research Institute) has inherited, and has been updating and maintaining since 2003. They are available at <http://iisee.kenken.go.jp/utsu/index.html> and http://iisee.kenken.go.jp/utsu/index_eng.html, in Japanese and English, respectively. In this presentation, we propose an outreach framework in which we combine earthquake information from the above catalogs, attenuation relations of seismic ground motions, and simple methods to evaluate seismic damages of buildings.

Keywords: Earthquake catalog, Damaging earthquakes,
Outreach framework for earthquakes and seismic damages