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Improvement of web interface of the IISEE earthquake catalog

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We introduce recent developments of the web interface of the IISEE (International Institute of Seismology and Earthquake Engineering) earthquake catalog, "IISEE's CMTs, Aftershock Distributions, Fault planes, and Rupture processes for recent large earthquakes in the world" (http://iisee.kenken.go.jp/eqcat/Top_page_en.htm). In this catalog, we have been providing earthquake information (CMT, aftershock distribution, fault plane, and rupture process) determined by the analytical techniques developed by the IISEE and visiting researchers since 2008.

We have modified the top of the search page of this catalog so that registered events are shown on the Google Map. Users can select an event on the Google Map, and display earthquake information for that event in another window. In the web interface, we have implemented a function to forward earthquake information to web calculators of PGA, PGV, intensities, etc. using a set of attenuation equations. Calculation results are shown on maps drawn by the GMT (Generic Mapping Tools, Wessel and Smith, 1998). Earthquake source parameters for this calculation can be changed by users for their purposes and conditions such as soil, earthquake type, etc. This improved web interface is now available at our web site as a test version (http://iisee.kenken.go.jp/cgi-bin/eqcatalog.newv4/eqcatalog2_eng.cgi). We plan to implement a function to download calculation results using attenuation equations. Through these developments, we are improving combination among this earthquake catalog, strong motion calculations, and the other earthquake catalog available at our web site, "Catalog of Damaging Earthquakes in the World" (Utsu, 2004). The later updates are added by the IISEE).

Keywords: earthquake catalog, attenuation equation, web interface