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Construction of the active fault catalog of the Asia-Pacific Region in G-EVER project

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It is important to decide a definition of active fault in order to construct a catalog of them. We will conduct a working group for make a active fault catalog for the Asia-Pacific region with a discussion on the definition of the active fault as an activity of the G-EVER project.

It is one of a primary purposes of the G-EVER project to evaluate the seismic hazards of countries in the Asia-Pacific region with same method to produce an abroad safety information for people and companies. For the construction of the common method, we need a active fault catalog for the seismic source with common definition of active fault for the all area. Currently USA, New Zealand and Japan have the active fault database but definition of the age of active fault is different among them. For example, "Quaternary Fault and Fold Database" of the US Geological Survey (USGS) includes all faults that have evidences of activity all the period of Quaternary (2.58 Ma), whereas "New Zealand Active Fault Database" of the Geology and Nuclear Science of New Zealand (GNS) contains the faults acted in the Late Quaternary (0.13 Ma). AIST has "Active Fault Database of Japan" which includes faults with evidences of activity on the higher terraces and geological layers since the Middle Pleistocene.

Working group for make a active fault catalog in G-EVER project will present an opportunity to discuss the definition of the age of active faults and produce earthquake source fault models, with a cooperation with the project of "Faulted Earth" in the Global Earthquake Model (GEM) Project.

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