

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

©2011. Japan Geoscience Union. All Rights Reserved.



HDS028-08

Room:302

Time:May 23 18:15-18:30

Development of disaster damage anticipation tool for local community using seismic hazard or risk information

Hitoshi Taguchi^{1*}, Yuichiro Usuda¹, Toshinari Nagasaka¹

¹NIED

Local community must autonomously handle large-scale disaster, such as earthquake. Management of natural disaster risk by social network of local communities and collaboration named as "disaster risk governance" is important to improve local coping capacity against disasters. To improve this capacity, the local community must reasonably evaluate disaster risk through risk communication.

To evaluate natural disaster risk, most recent scientific findings should be utilized by local community. Recently, natural disaster risk or hazard information, such as seismic hazard maps, has been created as geo-spatial information. These data have big potential in disaster prevention activities of local communities.

In order to utilize seismic hazard or risk map, there are two points. The first is the method of getting these data. The second is methodology of risk evaluation. In this presentation, interoperability of geo-spatial information as method of getting seismic hazard or risk map and the concept of web based information tool for risk evaluation are introduced through demonstration experiments.

Keywords: risk evaluation, geographic information system, hazard map