SSS25-P03 Room:Convention Hall Time:May 25 18:15-19:30

On National Seismic Hazard Maps of Japan 2014 edition

JISHINHONBU, Jimukyoku[1]*

[1]Ministry of Education, Culture, Sports, Science and Technology

Since its establishment in 1995, the Headquarters for Earthquake Research Promotion (HERP) has conducted long-term evaluation and strong ground motion prediction of inland and subduction-zone earthquakes.Based on those results, HERP compiled the first edit of National Seismic Hazard Maps of Japan (NSHMJ) in March 2005. Since then, HERP has revised and released NSHMJ on an annual basis. In July 2009, HERP made overall revision to NSHMJ and its name was changed.Although HERP was planning to release NSHMJ in 2011, the 2011 off the Pacific coast of Tohoku Earthquake suspended the release of the year because of the earthquake revealed considerable number of issues in probabilistic hazard maps※ of NSHMJ. This became one of the primary motives of validity confirmation of fundamental framework of the probabilistic hazard maps and resolution of revealed problems.HERP carried out the necessary studies and released the revised probabilistic hazard maps of NSHMJ in 2012 and 2013.HERP continued efforts to improve NSHMJ in 2014, and accomplished certain progress in the creation of probabilistic hazard maps, which reflected the studies, since 2011. HERP publicized the 2014 edition of NSHMJ with aforementioned probabilistic hazard maps. In our presentation, the outline of NSHMJ 2014 edition will be shown.

※ Probabilistic hazard map shows the estimated strength of ground motion at individual places, in and around Japan with probabilities, during a given period of time. This map is made based on the information on location, magnitude, and occurrence period of earthquakes in Japan.

Keywords: National Seismic Hazard Maps of Japan 2014 edition, seismic hazard, Earthquake research committee
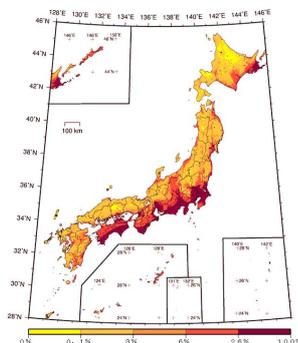
An example of Probabilistic Seismic Hazard Map:
The probability of ground motions equal to or larger than seismic intensity 6
Lower, occurring within the next 30 years from the present.