

Questionnaire survey for experts on long-term evaluation of active faults and evaluation of ground motion (Part 1)

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Regarding earthquakes occurring on active faults, the Headquarters for Earthquake Research Promotion has evaluated the long-term earthquake occurrence potentials based on surveys of active faults conducted nationwide since 1996. In addition, evaluations of strong ground motion is also published. Since the frequency of earthquakes on active faults is very low and the quantity and quality of information obtained from active fault surveys are limited, long-term evaluation of active faults has large uncertainty. Therefore, when disseminating long-term evaluations of active faults and evaluation of strong ground motion to the residents as earthquake risk information, it is necessary to consider the appropriate content and transmission method from various viewpoints. The viewpoints are such as scientific validity, understanding and utilization of information in disaster prevention administration, and understanding of local residents who receive the information.

Opinions of experts in active faults and earthquakes are reflected in the work process of long-term evaluation and evaluation of strong ground motion. In addition, surveys are conducted on the residents and local governments regarding the published results. On the other hand, regarding the published results, the degree of recognition and evaluation as a group of experts including non-committee members has not been clarified.

Therefore in this research, as part of the survey on the method of transmitting information of earthquake evaluation with uncertainty, we will first conduct a survey targeting experts in active faults and earthquakes. We conducted a questionnaire survey to member of the Japanese Society for Active Fault Studies and councillor of the Seismological Society of Japan to collect opinions based on the scientific validity about information that should be conveyed to residents and about the proper method regarding active faults and strong ground motion.

Keywords: active fault, long-term evaluation, evaluations of ground motion, risk