Utilization of K-NET data in Central Disaster Management Council

*Takashi YOKOTA^{1,2}, Masaya IKEDA², Koji TAKATA², Yasuhiro Kaida³

1.AICHI INSTITUTE OF TECHNOLOGY, 2.Cabinet Office, 3.0YO CORPORATION

Central Disaster Management Council is making master plan for disaster prevention and deliberating important part about disaster prevention. And Central Disaster Management Council establishes committees for technical investigation to investigate a technicality. We are able to find mentioning about use of K-NET in the reports which the committees for technical investigation on earthquake disaster issued. For example, the records which acquired by K-NET are compared with synthesized waveforms on the report issued by the "Committees for Technical Investigation on Countermeasures Against Tokyo Inland Earthquake". Observed data by K-NET are useful to evaluate the subsurface structures. Yokota et al. (2011) evaluated the amplification of long-period component of seismic records, and confirmed that the natural period which calculated from velocity structures related to the amplitude of long-period component of ground motion. The relation was that the longer the natural period at the observation station was, the larger the amplification of long-period component of observed record was.We introduce the trend of use of the above-mentioned K-NET data.

Keywords: K-NET, disaster mitigation, strong motion