

## Renewal of the K-NET

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<http://www.k-net.bosai.go.jp>

The K-NET is a strong-motion observation network consists of about 1000 strong-motion seismographs installed all over Japan. The average station to station distance is about 25km. Strong-motion records obtained from these seismographs are acquired at a control center in the NIED, Tsukuba, by telemetry. The strong-motion records obtained by the K-NET are available on the Internet.

The K-NET was constructed after the Hyogoken Nanbu Earthquake in January, 1995 and the operation of the K-NET began in June, 1996. Eight years have passed since the K-NET started and many strong-motion records for large earthquakes are obtained. Many researchers have used these strong-motion records of the K-NET in their studies. During these eight years the progress in information technologies is remarkable and new technologies become to be available.

The NIED has developed the K-NET using the new technologies. The new seismographs for the K-NET have been developed and installed at 443 observatories mainly in the southwestern Japan where strong-motions due to the Nankai and Tonankai earthquakes are warned. The main features of the new strong-motion seismograph are functions for real time data communications and processing JMA seismic intensity. We expect that the time to acquire strong-motion records from observatories to the control center in Tsukuba is shortened by using the new seismographs. The operation of the new system will be started in the fiscal year 2004.