

Database System for Crustal Activity Observation at Tono Research Institute of Earthquake Science

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We constructed the database system that can provide comprehensive datasets for the scientists, dealing with complicated variety of observation records. It is necessary for the crustal activity monitoring.

Tono Research Institute of Earthquake Science, Association for the Development of Earthquake Prediction, hereafter "TRIES" is operating five Ishii-type multicomponent borehole instruments. Rainfall, barometric pressure and ground water level are also recorded at every observatories.

And further, approximately fifty seismographs, which were installed at Tono area, Gifu, are recording earthquakes. The observation records obtained by the instruments mentioned above are stored as "data files" every day and are used for the comprehensive studies of crustal activity.

However, the data files include various sampling intervals records of the instruments and the data format of data file is not also unified.

Therefore TRIES constructs the database system in order to progress the studies of crustal activity, easily and rapidly.

In this study the capability and the specification of the database system would be explained. And the accessibility and the highmaintainability would also be demonstrated.