

## Continuous and simultaneous observation of crustal movements at surface and deep borehole at Togari Mizunami, Gifu prefecture

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Tono Research Institute of Earthquake Science installed a borehole station in May 1998, at Togari, Mizunami, Gifu prefecture, for the development of the method to clarify the effect of water in the sedimentary layer and to extract the "true" crustal movement from the observation data at surface and deep depth.

This area is mostly covered with a Tertiary layer of about 100m-300m thick over the granitic basement. Borehole is 350m in depth mostly in the granite. In the borehole, we have observed 3-component strains, 2-component tilts and groundwater level. We will report the comparative study of borehole observations and Mizunami strains and tilts observations (Nagoya University) since Dec 28, 1998.