

D107-001

Room: Ocean B

Time: May 30 9:00-9:12

The relationship of groundwater level changes to crustal strain changes (1) -Preliminary report

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In order to clarify the relationship of groundwater level changes to crustal strain changes, Tono Research Institute of Earthquake Science has observed groundwater level, crustal strain/tilt changes in the neighborhood of Mizunami Underground Research Laboratory (MIU, JAEA).

From June 2005 to the present, we have observed remarkable strain/tilt changes associated with the groundwater level changes which has produced by the excavation of MIU.

We will present the details of these strain/tilt and groundwater level changes, and attempt to clarify the relationship of groundwater level changes to crustal strain changes by using the Linear poroelasticity theory.