## Groundwater behavior around of The Western Tottori prefecture Earthquake Source Fault in 2000

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Drastic water level changes in wells near the epicenter were often observed with comparatively large inland earthquakes. Some mechanisms of the co-seismic groundwater level changes were reported. Rojstaczer, (1992) suggested that the earthquake increased rock permeability and temporarily enhanced ground-water flow rates. Sibson (1992) suggested that increase of the crustal strain causes the increase in pore water pressure. In this study, we have investigated the groundwater behaviors in and around the earthquake Source Fault of the Western Tottori prefecture earthquake 2000 by interview and analysis of observed values of the ground water level and of river level.