

## Co-seismic pore pressure/groundwater level changes associated with the 2016 Kumamoto Earthquake(Mj7.3)

\*Yasuhiro Asai<sup>1</sup>, Hiroshi Ishii<sup>1</sup>, Osamu Murakami<sup>1</sup>

1.Tono Research Institute of Earthquake Science, Association for the Development of Earthquake Prediction

Clear pore pressure/groundwater level changes associated with the 2016 Kumamoto Earthquake (Mj7.3) were observed at borehole observation sites (STG200, STG200N, and TGR350), Tono region, central Japan (Hypocentral Distances are approximately 665km). Amount of pore pressure changes in STG200 and STG200N are approximately 25kPa-rise, and groundwater level in TGR350 is approximately 2m-rise. We will present the details of these pore pressure/groundwater level changes, and attempt to clarify the qualitative/quantitative model for the co-seismic pore pressure/groundwater level changes.

Keywords: The 2016 Kumamoto Earthquake (Mj7.3), Co-seismic pore pressure/groundwater level changes