

For the scientific understanding of the effect of 2016 Kumamoto Earthquake to the local hydrological flow system including groundwater resources

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More than two years have been passed after the occurrence of 2016 Kumamoto earthquake. Many investigators have been investigated the cause of observed coseismic hydrological changes such as spring lake dry up, groundwater level drop and rise. We also found groundwater quality changes before and after the quake and this information has been becoming accumulated. In fact, highly densed groundwater monitoring network installed in Kumamoto enables us to grasp comprehensive view of coseismic hydrological responses in very high resolution, so that, the results of these studies have high potential impact to this academic area globally. In this session, we intend to have the all topics regarding coseismic hydrological changes after or even before the 2016 Kumamoto earthquake from broad point of view including hydrological cycle, deep water and hydrothermal water contribution, subsurface temperature, water quality, isotopes and microbiology for the better scientific understanding of 2016 Kumamoto earthquake. Topics of earthquake prediction and crustal defamation mechanism, surface morphological change in relation to hydrological changes are also presented as invited speakers.

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