

Distribution of liquefactions and sand volcanoes in Aso Caldera, associated with the 2016 Kumamoto earthquake

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In this study, I report distribution of liquefactions and sand volcanoes in Aso Caldera, associated with the 2016 Kumamoto earthquake. Surface rupture associated with the M7.3 earthquake on 16 April (Japan Meteorological Agency, 2016) was identified along the Futagawa and Hinagu faults. The easternmost point of the identified surface ruptures was at the western part of the Aso Caldera. However, liquefactions and sand volcanoes were widely distributed on lowlands in the northern part of the Aso Caldera. On the other hand, they were not identified in the southern part of the caldera. In order to reveal this difference, I mapped liquefactions and sand volcanoes based on aerial photos taken by Geospatial Information Authority of Japan. I will report their features and comparison with InSAR images (Geospatial Information Authority of Japan, 2016) on the presentation.

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Geospatial Information Authority of Japan (2016) The 2016 Kumamoto Earthquake

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