

Dense Microtremor observations in disaster area due to the 2016 Kumamoto Earthquake

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Microtremor observations were conducted in Mashiki town and Minami-Aso village where severe damages spread over due to the 2016 Kumamoto Earthquake. Two targets are set for the observations. One is searching out the difference of ground motion between surface faulting areas without severe damage and severely damaged areas without surface faulting. Another is assessing the effect of surface geology and geographic transition on spotted damage distribution in downtown area. For the purposes, 3 components single station observations are conducted to detect predominant period at the site and array observations are made for evaluating surface velocity structures. Using the records from microtremor observations and previously conducted aftershock observations, productive discussions about causes of disaster are expected.

Keywords: The 2016 Kumamoto Earthquake, Mashiki town, Minami-Aso village, Microtremor observation