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Ubiquitous gas monitoring system observed gases in the Atotsugawa fault

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Attempts of monitoring generated gases due to faulting have been performed by e.g. Sugisaki (1978). 30 years after the study performed, we developed a Quadrupole Mass Spectrometer into a GRowndWater Data Analyzing System (GROWDAS) in order to measure gasses under ground continuously. We started to observe nitrogen, oxygen, argon, carbon dioxide, methane and helium gasses by the GROWDAS at the Atotsugawa fault, Gifu prefecture on December 2010. In this study, we show results of the gas observation.