

## Observation of co- and post-seismic fluid migration in and around Kamishiro Fault, Naganoken-Hokubu earthquake

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On November 28, An M 6.7 earthquake occurred at northern part of Nagano Prefecture, Central Japan. The Kamishiro Fault, which has been well known as to be a part of Itoigawa-Shizuoka Tectonic Line, was activated by the earthquake and surface rupture with about 9 km in length was appeared along it's trace.

Right before and after the earthquake, pre-, co- and post-seismic fluid migration was observed at around the Kamishiro Fault. Our team has been observing and monitoring the flow amount and chemical characteristics of the fluid from one week after the earthquake to present and still continue observation.

In this presentation, we consider the driving mechanism for fluid flow and hydrological characteristics of the fracture zone of the Kamishiro Fault.

Keywords: Naganoken-Hokubu earthquake, Kamishiro Fault, Fluid, Hot spring, Fracture zone, hydrological characteristics