

## Second Water Injection Experiment at the Nojima Fault: Analysis of Fault Healing Process and Induced Earthquakes

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We carried out the second water injection experiment at the Nojima fault to study the fault healing process and the induced earthquakes. The experiments were made at three different water pressures, 30MPa, 40MPa, and 45MPa. After the 40MPa-pressure experiment, we observed the following changes; strain and discharge at 800m borehole, self potential near the injection borehole, S-wave travel time from ACROSS signal generation system, increase of ultra-microearthquakes near the experiment site. We will make the next experiment at 45MPa soon, and we will analyze all these data to construct the shallow structure of the Nojima fault.