

## Fault rocks distribution in a fracture zone of the Nojima fault &#8211;Analysis for core samples by Hirabayashi NIED drilling-

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About one year after the 1995 Hyogo-ken Nanbu earthquake, the Hirabayashi NIED borehole was drilled penetrating through the Nojima fault zone to a depth of 1838m. Collected cores are all granitic rocks including intrusive rocks in spots and remarkably fractured zones consisting of cataclastic rocks at three depths around 1140m, 1300m and 1800m. We observed polished pieces and thin sections of cores in the fracture zone around 1300m and 1800m depth. Cataclastic rocks were classified into five kind of fault related rocks: weakly pulverized/deformed and altered rock, fault breccia, fault gouge, cataclasite and altered rock. We investigated the distribution of those fault related rocks based on qualitative indices of pulverization/deformation and alteration.