SI-P015 Room: Lounge Time: June 28 12:30-14:00

Permeability structure of Yanagase fault

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Yanagase fault-zone at an outcrop in Simizuhori,Imajyou-cho,Nanjyou-gun,Fukui Pref., consists of 300-500 mm thick fault gouge and about 3 m thick fault breccia. We measured permeability of these fault rocks constituting the country rocks using the oscillation method with nitrogen pore pressure at effective pressures Pe to 100 MPa. Permeability k of fault gouge makedly decreases with increasing Pe and is below 10^-19 m^2 at Pe =100 MPa, and tends to stay at about the same level upon reduction in Pe.