

## Dynamic process and chemical reaction of the fault zone at the seismogenic depth along the subduction zone

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Characterisation of the fault material at the seismogenic subduction zone is of potential importance for understanding the earthquake generation mechanism. Dynamic behavior and kinetics and balance of the intra fault material have mainly been investigated through the Low to High-T/P deformation experiments. Experimental results for these issues are presented, including velocity - strength relationship and resultant texture of the fault rocks, and chemical reaction (kinetics) during deformation. The most realistic objectives will be figured out through this discussion.

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