

Paleoseismology at the southern part of Itoigawa-Shizuoka Tectonic Line (ISTL): Hakushu, Hohzan, and Ichinose faults

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Paleoseismological study has been performed to clarify possible dynamic rupture involving multiple segments of the ISTL. At the western lineament of the Ichinose fault group, the most recent event was present sometimes between 750 and 1200 cal.y.B.P. The most recent event of the Hohzan fault has been newly documented and occurred between 1300 and 2700 cal.y.B.P. On the western lineament of the Hakushu fault, the most recent event with strike-slip faulting was newly identified and occurred after 5000 cal.y.B.P.. These paleoseismological evidences imply that the great rupture was absent involving either segments of the southern part as a whole or of the central part, despite the possible regional multi-rupturing earthquake occurred from 1300 to 2700 cal.y.B.P..