

スラブ内で発生する繰り返し地震

Intraslab repeating earthquakes beneath Japan; Implications for fluid-related embrittlement

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Repeating earthquakes, or repeaters, are identical in location and geometry but occur at different times. Repeaters are most commonly found on creeping plate boundary faults, where seismic patches are loaded by surrounding slow slip. This study investigates whether repeating earthquakes occur in subducting slabs and finds the repeating earthquakes in the aftershock sequence of the 2003 Miyagi earthquake (M7.1). The occurrence of intraslab repeating earthquakes suggests that slow slip takes place even in the fault in the slab. In the presentation, we will talk about the systematic analysis of intraslab repeating earthquake beneath the Japanese Islands.