
[JJ] Evening Poster | S (Solid Earth Sciences) | S-SS Seismology

[S-SS14]Strong Ground Motion and Earthquake Disaster

convener:Masayuki Kuriyama(Central Research Institute of Electric Power Industry)

Tue. May 22, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

Strong ground motion has social impacts as it induces earthquake disasters. We solicit contribution on any seismological topics related to strong ground motion that includes, but are not limited to, source processes, wave propagation, and site effects. We also welcome contribution on earthquake related disaster mitigation.

[SSS14-P39]Damage characteristics of wooden buildings by the building age according to the 2016 Kumamoto earthquake

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Looking at the damage rate of LEVEL 4 by Miyagi Town in terms of building age, it is 15% before 1981, 11% in 1981-2000, and 2% after 2001.

Furthermore, looking at the damage rate of LEVEL 4 in the area presumed to be seismic intensity 7 in Mashiro Town, it is 21% before 1981, 16% in 1981-2000 and 3% after 2001, the damage rate of after 2001 can be said to be very small.

When the damaged rate curve is calculated from the estimated seismic intensity and the damage rate calculated by totaling the buildings of LEVEL 3 and 4, the damage rate is small even if the same seismic intensity is new as the building age is new.

The damage rate (temporary) at seismic intensity 7.0 is 95% before 1981, 70% in 1981-2000, and 15% after 2001, and the damage rate since 2001 is obviously low.