

## Holocene activity of the Kaminada segment at Iyonada MTL active fault system by using all-core boring off Shimonada, Japan

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The Kaminada segment is the eastern part of Iyonada Median Tectonic Line (MTL) active fault off northwestern Ehime Prefecture. We carried out detailed boring survey around of the Shimonada-minami fault. Two cores, 57.3m and 15.0m, were obtained from the downthrown side and upthrown sides of the fault. We have recognized more than 13 correlative horizons each of the two boring sites by detailed sedimentary facies analysis and measurement of physical properties such as magnetic susceptibility, density, pH, electric conductivity, pollen analysis and volcanic ash analysis. In this study, the most important horizon is the transgressive surface of Jomon transgression at 10,000 cal. yBP and K-Ah tephra layer (ca.7300 cal.yBP).

In summary, we recognized four earthquake events from this fault such as ca. 10000 cal.yBP, 7300-6600 cal.yBP, and ca.6000-0 cal.yBP. According to result of Kaminada-kita fault by Otsuka et al. (2001), we think Kaminada segment caused four earthquake events since 10000 cal. yBP and its recurrence interval is ca. 2500-3500 years.