

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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MIS036-P74

Room:Convention Hall

Time:May 26 14:15-16:15

Characteristics of Long-Period Ground Motions in Osaka Basin by the 2011 off the Pacific Coast of Tohoku Earthquake

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During the 2011 off the Pacific coast of Tohoku Earthquake (3/11 14:46 ; Mw9.0), the Committee of Earthquake Observation and Research in the Kansai Area (CEORKA), which is arraying stations throughout the Kansai district, obtained the records at the all stations. In this study, the characteristics of long-period ground motions in Osaka basin was examined using the records. The response spectra of records obtained in Osaka basin predominated at the period of 5 - 6 seconds in horizontal components and 3 second in vertical one. These predominant periods are same as the one of the main shock of the 2004 off the Kii Peninsula earthquake (9/5 23:57 ; MJ7.4). This result supports that these predominant periods characterizes the long-period ground motions in Osaka basin.

Acknowledgements. The used records were obtained at the seismic stations of The Committee of Earthquake Observation and Research in the Kansai Area (CEORKA) network.

Keywords: The 2011 off the Pacific coast of Tohoku Earthquake, Long-Period Ground Motion, Osaka Basin