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Room:Convention Hall

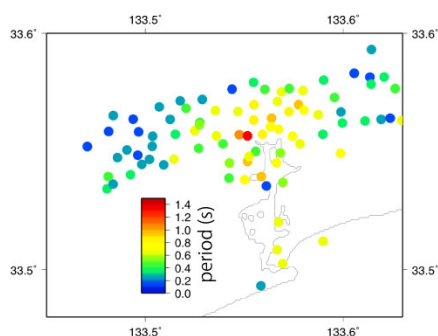
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## Spatial distribution of predominant period derived from H/V spectra in Kochi Plain

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If the Nankai Earthquake occur, Kochi city will be damaged by both strong ground motion and submergence due to ground subsidence and Tsunami. These disasters will be concentrated in thick sediment region and/or high subsidence region. Thus sediment/Basement structure around the Kochi city is important to understand nature of the disasters. We conducted microtremor observation around Kochi city. We used JU210 seismometer for microtremor by Hakusan Coop. We observed microtremor 88 points around Kochi city and analyzed H/V spectra. Obtained dominant period distribution is shown in Figure. Both ends of east-west extending Kochi plain, short period dominant frequencies are recognized (western region 0.3s or less; eastern Kochi city 0.6s or less). In contrast, central region faced to Urato-Bay area, longer period distribution are observed (larger than 0.6s up to 1.45s). Structure modeling to explain these observations is important issue in future study. In central area faced to Urato-Bay, provision for both submergence and strong ground motion with longer dominant period.



Keywords: Micro tremor, Predominant Period, Surface Basement, Kochi Plain