Re-examination of 3D model in northern part of Kanto plain by analyses of observed and synthesized long-period ground motion

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Koyama et al. (1992) pointed out one of some records had a distinct later phase with a delay time of 1 minute after arrival of initial S wave only at Kumagaya in the northwestern part of Kanto plain during the 1984 Western part of Nagano Prefecture Earthquake. Although we carried out some explorations of the sedimentary basin structure and construction of 3D model for FD simulations, the simulation results was not enough. Therefore, we re-analyzed K-NET records around the area for the notable later phase, we found that the observed records of the other earthquake have similar later phase. Besides, we carried out FD long-period ground motion simulation used by 3D model of Yamanaka and Yamada (2006) during a middle size earthquake in the central Kanto plain. These thing leads information of sedimentary basin, we can re-construct the 3D model.