

## Subsurface structure model of the Nobi Plain and simulation of seismic motion (2)

# Hideki Nagumo[1], Yoshihiro Sawada[2]

[1] Dept. of Civil Engineering, Nagoya Univ., [2] Civil Eng., Nagoya Univ

It is urgent need on the Nobi Plain to construct reliable geological structure model and predict the strong ground motion due to the great earthquakes along the Nankai trough expected to occur in near future. In this study we investigate the Nobi Plain geological structure. Construction process of the model and the results of validity check using 3D FDM simulation are reported in the previous SSJ fall meeting. This time, we divide soil layer into two portions with S wave velocity of 0.4 km/s and 0.8 km/s to estimate the effects of surficial low velocity layer. Simulation results reproduce large amplitude later phases just after S wave at observation sites located western part of the Plain, which is in accordance with observation results.