

## Database construction of Tsunami inundation simulation for large subduction earthquakes

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In the area facing the Nankai Trough, the danger of the tsunami caused by the large subduction earthquake is an urgent task. Because the earthquake occurrence area is too close, it is very important to grasp the possibility of inundation in advance, not after the earthquake occurred.

Therefore, from the viewpoint of tsunami protection against railway structures, databases of tsunami height near the coast and tsunami inundation zones were created, assuming a large number of scenario earthquakes for specific cities on the Pacific coast. Using this result we will investigate the risk of risk assessment due to the maximum inundation area and the delay time of evacuation compared to the coastal prediction results.

Coastal tsunami height tends to increase when large slip regions and super large slip regions exist in front of the coastline in each target area, but the spread of the inundation area is also related to the position in the dip direction of the large slip region. We would like to discuss what kind of information is important for mitigating tsunami damage from the standpoint of railroad disaster prevention while quantitatively examining the various inundated areas obtained.

Keywords: Tsunami simulation, Nankai trough, Reduction of disaster damage