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## High refining tsunami inundation simulation of the 2011 Great East Japan Earthquake

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As for the tsunami hazard, it was shown that there was a possibility to be able to become a catastrophe with destruction by extending to not the flood damage but the large area in the specific region due to the East Japan great earthquake that had been caused in 2011.

Then, the technique that whether it destroys it is only judged but also very it destroys it is appreciable is needed as an obtained lesson like the situation to date.

Therefore, the simulation tool that can be examined is indispensable, and a pressing need in the large area and the high-refining. The present study verifies the tool that can examine the flood from the source of the tsunami to the town inside as a first step of the research, and examines the computational efficiency of the simulator that does high minute calculation in the town.

Keywords: the Great East Japan Earthquake, Tsunami, Inundation, Numerical Simulation, VOF, High performance computing