Consideration of future volcanogenic tsunamis in Japan

*Kenji Nakata[1], Akio Katsumata[1]

1. Meteorological Research Institute, Japan Meteorological Agency

In this study, we estimate tsunami due to edifice collapses.

We used TITAN2D (Titan2D Mass-Flow Simulation Tool, 2016; Patra et al. 2005) as a calculation model of debris avalanches. We used JAGRUS (Baba et al., 2015) as a tsunami simulation model.

First, we applied the model to the past case in Japan. As a result, almost reasonable results were obtained with the historical observation heights.

Next, we applied the model to future cases, for example Mt. Fuji, in Japan. As collapse shape is not known in future case, the shape of St. Helens are applied.

Keywords: edifice collapse, debris avalanche, tsunami, TITAN2D