[JJ] Evening Poster | H (Human Geosciences) | H-DS Disaster geosciences

[H-DS10]Tsunami and Tsunami Forecast

convener:Naotaka YAMAMOTO CHIKASADA(National Research Institute for Earth Science and Disaster Resilience), Kentaro Imai(Japan Agency for Marine-Earth Science and Technology), Hiroaki Tsushima(気象庁気象研究所)

Wed. May 23, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

This session discusses issues related to improving real-time and long-term prediction accuracy of tsunami from earthquakes, landslides, and volcanoes, which include such as a better understanding of tsunami dynamics, new real-time tsunami observing systems deployed in the open ocean and coastal waters, methodologies of more rapid and accurate prediction during tsunami emergencies, more extensive and accurate inundation maps, and long-term tsunami potential forecast.

[HDS10-P02]Consideration of future volcanogenic tsunamis in Japan

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Keywords:edifice collapse, debris avalanche, tsunami, TITAN2D

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.