

Tsunami Hazard Assessment for Hokuriku Region: Towards the Disaster Mitigation for Future Earthquake

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Compared with the Pacific coast, the coast of the Japan sea has low seismicity and few tsunami experiences. It leads to some difficulty when we promote a disaster prevention education effectively, because we have not often been threatened by earthquakes and tsunamis. To find a breakthrough, we conducted tsunami simulation for the Hokuriku region, i.e. Fukui, Ishikawa, and Toyama Prefectures. Three Mw7.6 earthquakes potential to generate the tsunami are considered. As well as tsunami heights, arrival time, inundation heights and inundation areas, we calculated the seismic intensity and the liquefaction probability. Overlooking all these results, we found that the coastal lowland of Suzu City located at the north-east point of the Noto Peninsula has relatively high potential risk against tsunami as well as strong ground shaking and liquefaction. We furthermore discussed the evacuation from the inundation area of this city.

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