

## What kind of disturbance have Great East Japan Earthquake and Tsunamis given?

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March 11, 2011, Megaequake and Tsunamis took place at Tohoku Region. Marine Ecosystems have totally damaged due to Earthquake and Tsunamis. Tohoku Region is a rich in marine biodiversity. Thus, the region is famous for fisheries. Together with Tohoku University and AORI, University of Tokyo, JAMSTEC is going to make research on disturbances and recovery processes of marine ecosystems off Tohoku. The project is supported by MEXT. This project aims to make clear disturbances of marine ecosystems by Earthquake and Tsunamis and to monitor recovery processes from ecosystem disturbances. We plan to transfer and/or share research results to fisheries, local governments and citizens at Tohoku Areas. In my talk, I try to introduce about Tohoku marine sciences. I also show what kind of disturbances have taken place at bottom ecosystems of Tohoku Region.

Keywords: Great East Japan Earthquake, Tsunami, Marine Ecosystems, Sediment liquification, Turbidite, Repopulation