



Earthquake and Tsunami Disaster Mitigation in the Marmara Region and Disaster Education in Turkey Part2

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Turkey is one of seismogenic countries with destructive earthquakes.

In Turkey, the 1999 Izmit Earthquake as the destructive earthquake occurred along the North Anatolian fault. This fault is crossing the Marmara sea. In this SATREPS project, Marmara Sea should be focused on because of a seismic gap in the North Anatolian fault. Istanbul is located around the Marmara Sea, so, if next earthquake in the Marmara will occur near Istanbul, fatal damages will be generated as compound damages including Tsunami and liquefaction etc.

The Japan and Turkey can share our own experiences during past damaging earthquakes and we can prepare for future large earthquakes in cooperation with each other. In earthquakes in Tokyo area and Istanbul area as the destructive earthquakes near high population cities, there are common disaster researches and measures in each country.

For disaster mitigation, we are progressing multidisciplinary researches in this SATREPS project.

Our goals of this SATREPS project are as follows,

This project is composed of four research groups.

1) The first group is Marmara Earthquake Source region observationally research group.

This group has 4 sub-themes such as Seismicity, Geodesy, Electromagnetics and Trench analyses.

2) The second group focuses on scenario researches of earthquake occurrence along the North Anatolia fault and precise tsunami simulation in the Marmara region.

3) Aims of the third group are improvements and constructions of seismic characterizations and damage predictions based on observation researches and precise simulations.

4) The fourth group is promoting disaster educations using research result visuals.

In this SATREPS project, we will integrate these research results for disaster mitigation in Marmara region and disaster education in Turkey.

Finally, these results and knowledges will be applied to Japanese disaster mitigation researches and disaster educations.

We will have a presentation of the updated results of this SATREPS project.