

Local community and Tsunami-lesson from 2011 eastern Japan mega earthquake

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The coastal plain facing Pacific Ocean in north-eastern Japan was suffered by Tsunami and mega-earthquake at 2011 Easter Japan Mega-Earthquake. Still now, the regional planners are preparing for appropriate resuscitation or reconstruction for mitigation in the disaster-stricken areas. In this study, the authors tried to clarify local community activity for disaster prevention at the moment of Mega-earthquake occurrence and Tsunami intrusion. The lower Abukuma river basin and coastal and fluvial landforms comparing with former Tsunami intrusion referred to historical records on this site and local communities based on different landform units of the lower Abukuma river basin were selected for analysis to avoid disaster risk level using questionnaire survey. The local community activities were designed by strong leadership of community, former experience of disaster, preparedness of evacuation drill, work sheering experience of community building up social capital in each region. The land use pattern and recent land use change processes in this study area are analyzed and the rapid land use change dealing with urbanization is another trigger of disaster risk level enlargement under the disaster. The future disaster prevention work and disaster mitigation planning should be argued with local community social capital.

Keywords: Tsunami, Local community, landform