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寄稿論文

東南海・南海地震による津波災害と防災

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Abstract

The occurrence of To-Nankai and Nankai earthquakes are very urgent and they accompany with tsunamis. Historically, tsunami damage was huge in comparison with earthquake damage. Therefore, how to reduce the tsunami damage is essential. This expands with the damage link of the earthquakes and tsunamis, and, up to now, has become a super-large area disaster that has not been experienced. Moreover, last 60 years, our social structure has rapidly changed and social vulnerability has also increased year by year. Especially, the lifeline damage controls the progress condition of the recovery works of the stricken area. If we take the electricity as the most important lifeline, the area under the jurisdiction of the Chubu Electric Power Co. Inc. in the electric supply could face a long-term power failure due to the occurrence of Tokai, To-Nankai and Nankai earthquakes. In this region,, c.a. 92% of the total power generation are supplied by thermal and nuclear power plants that are located where the ground shaking has been estimated as six minus or more in the JMA (Japan Meteorological Agency) seismic intensity scale. We proposed the following efforts to reduce damage 1) Early dispatch of tsunami warning to residents at the every corner who are generally at the end of the reach of the official information path., 2) Utilization of measured seismic intensity meter located in every municipality to image coming tsunamis, 3) Promotion of hazard map circulation and education of residents who has difficulties to adjust themselves to the risk, 4) Senior citizen measures to reduce damage through reiterated evacuation drills, encouragement of mutual disaster mitigation planning in the local community, etc., 5) Subways and underground shopping center measures because to cope with inundation disaster of a new type that we have never experienced before, and 6) Measures to people at recreation or sport in seashore, river terrace, and holm that hazardous zones of tsunamis..

Keywords : Tsunami, disaster reduction, To-Nankai earthquake, Nankai earthquake