

Active fault study for mitigating earthquake damage

Mitsuhsisa Watanabe^{1*}

¹Toyo Univ.

The accident resulted from dislocation of ground could not have been prevented. Thus, it is significantly important to investigate carefully characteristics of active faults. However, the evaluations of active faults in the vicinity of nuclear facilities in Japan are clearly mistaken. The assumption concerning the degree of ground motion has been under-estimated, and, damage that can result from dislocation along active faults has been ignored, due to erroneous assessments. Appropriate examinations since 2012 reveal several active faults in some sites. The severe accident of the "Fukushima" was caused by this kind of intentional human carelessness of future hazard. In order to make an accurate estimate of future large earthquake and tsunami, it is essential to examine submarine active faults. Most of submarine active faults are recognized close to the hypocentral regions of historical large earthquakes and tsunami sources. We should draw attention to the distribution of active faults, otherwise the almost the same disaster will recur in active fault zones: the whole affair will end in tragedy again.

Keywords: active fault, marine active fault, earthquake, dislocation, tsunami, nuclear facility