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Distribution of Geological Disaster by Liquefaction-Fluidization Phenomena on Boso peninsula at The 2011 off the Pacific

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The 2011 off the Pacific coast of Tohoku Earthquake and the aftershock caused Liquefaction-Fluidization phenomenon in many places in Boso Peninsula. The distribution and characteristic of the low land area around Tone River down stream on Chiba prefecture. seem to be as follows.

Liquefaction-Fluidization damage is seen in the reclaimed land where was the past water area around the former river channel and pond. The same phenomenon was occurred at the 1987 East Off Chiba Prefecture Earthquake. In this area, the liquefaction-fluidization phenomena occurred more extensive than the 1987 East Off Chiba Prefecture Earthquake. Also the liquefaction-fluidization hazards were more serious. It is often accompanied by big subsidence of the ground. Liquefaction-Fluidization phenomenon is seen in more wider area than a former river channel. But the degree of the damage varies by location. It is considered the impact of the differences of the strata of the shallow part of the area, such as the artificial layer and alluvial deposit.

The Liquefaction-Fluidization phenomenon was seen in low land area around Tonegawa down stream in Chiba prefecture such as Noda city, Abiko city, Inzai city, Sakae town, Narita city, Katori city.

Keywords: Liquefaction-Fluidization Phenomena, sand volcano, the 1987 East Off Chiba Prefecture Earthquake, the 2011 off the Pacific coast of Tohoku Earthquake