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Relationship between Quaternary system and damage from earthquake in center of Fukushima

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The largest earthquake broke out in East Tohoku region, Japan, at 11, March, 2011. Fukushima prefecture is damaged many houses and a lot of roads by this earthquake, too. Fukushima prefecture lies about 200 kilometer northward distant from Tokyo. So, there coast is located Fukushima nuclear power plants.

I researched in center of Fukushima prefecture. The Abukuma River flows in center of Fukushima prefecture. Center of Fukushima lies between the Abukuma Mountains and the Ou Mountains. Center of Fukushima formed by Quaternary system (Pleistocene Series and Holocene Series).

It turned out that relationship between Quaternary system and damage from earthquake in center of Fukushima.

The first, Center of Fukushima was once large lake. This lake called Ko-Koriyama-ko(Lake Old Koriyama). So, overlap with damage area from earthquake and this Lake Old Koriyama area. This area is Koriyama city, Sukagawa City, Kagami-ishi town, Yabuki town and parts of Tamakawa village.

The second, many houses damaged area is Koriyama Uplands formed lacustrine sediment.

The third, of all others, concentration area is old river channel, periphery the pond, reclaimed pond on the Koriyama Uplands. And, reclaimed pond occurred liquefaction.

The fourth, on the Holocene Series (alluvial plain) is damaged smaller than Koriyama Uplands (Pleistocene Series). Because, Gravel underneath the alluvium.

The fifth, the other hands, there is almost no damaged by earthquake in neighboring area (Abukuma Mountains, Ou Mountains and Sirakawa city).

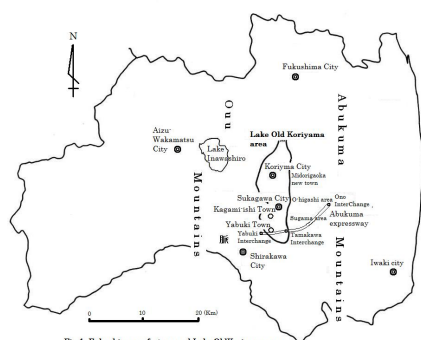


Fig.1 Fukushima prefecture and Lake Old Koriyama area

Keywords: Lake Old Koriyama, Koriyama lacustrine sediment, slough, old river channel, pond, decrepit building