

Geoslicer survey of liquefied layer due to Tottoriken-seibu earthquake

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Geological Survey of Japan has been collecting the liquefied sediments and observing them in detail not only to reveal the mechanism of liquefaction, but to utilize the common feature in them as index of the past great earthquakes. We carried out geoslicer survey of liquefied layer due to the 2000.10.6 Tottoriken-seibu earthquake. It revealed that the artificial fill with dredged sands about 2m thick was liquefied and erupted on the surface through the capped reclaimed layer with decomposed granite and soil about 1m thick. To observe and describe the liquefied layer in detail is the clue to know the liquefaction mechanism.