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Relationship between tsunami inundation and sand distribution due to the 2011 Tohoku Earthquake tsunami

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The great earthquake off the Pacific coast of Tohoku was a magnitude Mw 9.0 undersea megathrust earthquake off the coast of Japan that occurred on 11 March 2011. The earthquake triggered powerful tsunami waves that reached heights of up to 40.5 m in Miyako, and which, in the Sendai area, travelled up to 10 km inland. There were three invasions and maximum height was 4.2m at Oarai, Ibaraki Prefecture, and then tsunami came out serious damage for Oarai port and downtown areas. Just after the tsunami, we went there and described tsunami inundation and tsunami sedimentation. In our presentation, we report the relationship between tsunami inundation area and sand distribution due to the 2011 tsunami in this area.

Keywords: 2011 Tohoku Earthquake, tsunami inundation area, sand distribution, Oarai, Ibaraki Prefecture, Oarai Port, Tsunami deposit

