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Characteristics of the recent onshore tsunami deposits in coastal lowland, Wakabayashi-ku, Sendai plain, eastern Japan

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Sedimentary characteristics of the tsunami deposits caused by the 2011 off the Pacific coast of Tohoku Earthquake in coastal lowland of Wakabayashi-ku in Sendai plain were summarized as follows;

- 1) The area of coastal dune and beach were widely eroded by tsunami waves.
- 2) The sediments derived from coastal dune and beach area were distributed in inside area of coastal dunes.
- 3) The tsunami deposits show a fining- and thinning-landward trend.
- 4) Internal structures of tsunami sediments were mainly parallel lamina or massive structure. Cross-lamination structures were sometimes shown in uppermost part.
- 5) The tsunami deposits shown in seaward area include mud clast in the basal part, which interpreted as these formed by intensive tsunami current
- 6) Mud-drape layer is commonly observed in these deposits and indicates a calm period during tsunami currents and/or after tsunami.
- 7) The deposits from return flows of tsunami were rare in this survey.

Keywords: tsunami deposits, Sendai, The 2011 off the Pacific coast of Tohoku Earthquake