

HGM005-06

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Alongshore grain size distribution changes on the coast of Tottori Sand Dunes

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Grain size distributions along the coast over 7.5 km on the Tottori Sand Dunes were investigated using a setting tube instrument. Samples were collected at berm crests at every 200 m intervals. Along our surveying coast, the artificial transport of sand from the mouth of the Sendai River to the middle point of the open sea called the Sand Recycling project has been conducting since 2005. Samples were collected twice, just before the project began; at 2004-2005 and after 4 year continuation; at 2009. Alongshore grain size distribution changes on the coast of the Tottori Sand Dunes were shown in Figure 1. We cannot tell big differences in grain sizes between pre and post Sand Recycling projects. However, two interesting phenomena were demonstrated: bimodal grain size distributions and abrupt grain size changes. We do not know the reasons so far why these phenomena occurred.

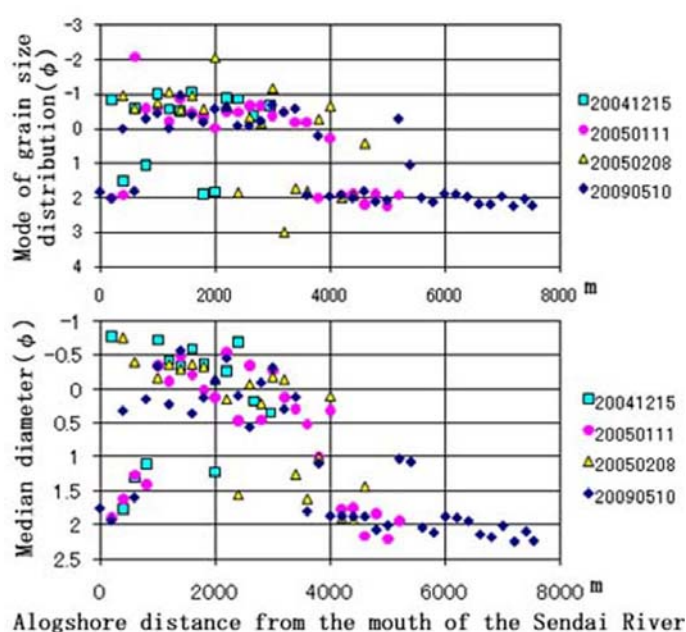


Fig.1 Grain size changes on the coast of Tottori

Keywords: grain size distribution, beach deposits, Tottori Sand Dunes