

## Distribution pattern and formation processes of potholes in Oshika, Tottori: role of pothole on river incision processes

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Potholes on the Oshika River bed near Takaganma, Misasa-Town, Tottori, Western Japan were surveyed. Surrounding terrace development revealed that there potholes were formed within 3,600 years. Plan view survey illustrated a line distribution pattern of potholes, resulting from longitudinal vortices generated in flood flows. Longitudinal profiles (Fig.) showed that bottom levels of potholes were close to or towards to those of the present river bed. In general, potholes have a role of effective drilling erosion on a hard bedrock elimination with few sediment loads in the river incision processes.

Keywords: potholes, pothole developing processes, line distribution, river incision processes, balloon photos, The Oshika River, Tottori, Japan

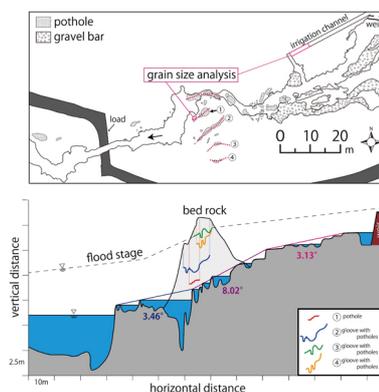


Fig. Plan view and long profiles of Takaganma-Potholes, Misasa Town, Tottori Pref., Japan