

## Human impact on Bedforms of the Mid-Arakawa, Central Japan

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I carried-out continuing observation of the changes in river-bed landforms in the alluvial-fan reaches of the mid-Arakawa. Destruction and reconstruction of a weir and a stepwork for irrigation induced the instability of sediments which resulted in the development of alternate bars and transverse bars with imbrication structures downstream. It is interpreted as response of fluvial system to human impacts.

Keywords: Human impact, River-bed form, Alluvial fan, Dynamic equilibrium, Fluvial system