

ESTIMATION OF MORPHOLOGICAL CHANGES OF THE ODRA RIVER VALLEY IN
MEANDERING SECTOR BETWEEN CHAŁUPKI AND THE OLZA RIVER MOUTH
AFTER 1997 FLOOD

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Summary

On the Polish-Czech Odra river section between Chałupki (Poland) and the Olza river mouth there are unique in European scale meanders (km 21.3 – 26.8). In the 20th century the break-up of two meanders caused by floods in 1967 and 1997 occurred. The total length of meandering section has become shorter and the hydraulic gradient increased. The sediments eroded and transported by the stream have settled in different zones of the meandering section. In 1997 the inlet to the meander I was blocked by settled sediments causing the break-up of this meander. The paper presents the preliminary estimation of morphological changes of the river bed and the physical and rheological characteristics for settled sediments.