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## BATHYMETRIC MEASUREMENT FOR DETERMINATION OF MORPHOLOGY OF WATER RESERVOIR BOTTOM

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Information and communication technologies are currently one of the decisive factors influencing economic and social development. Similar developments and trends in relation to information and communication technologies can be observed in the field of water management. To obtain relevant results in river hydraulics, determination of watercourse capacities and tanks, monitoring of the quantity and dynamics of sediments, are decisive the input data. The paper presents a summary of the results and experience from the performed bathymetric measurements on the Nýrsko water reservoir on the Úhlava River. Pilot Monitoring Campaigns have obtained data on water reservoir morphology using sophisticated instrumentation based on echo Souder RiverSurveyor M9 and EcoMapper AUV (Autonomous Underwater Vehicle). The paper presents the preparation and progress of field measurements, description of subsequent post processing of obtained data sets, comparative analysis, including comparison with data sets obtained using the Meridata ultrasonic measuring instrument, the MD500, installed on the Joska measuring boat operated by the Povodí Vltavy, State Enterprise.