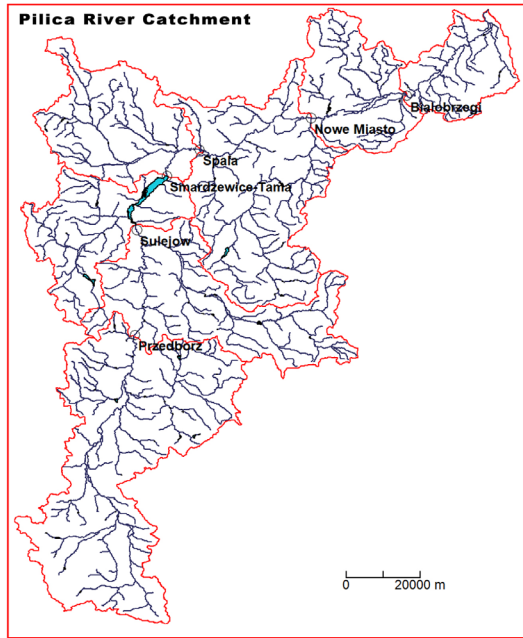


# Hydraulic properties of Sulejów Reservoir in Poland as a driving factor of sedimentation processes

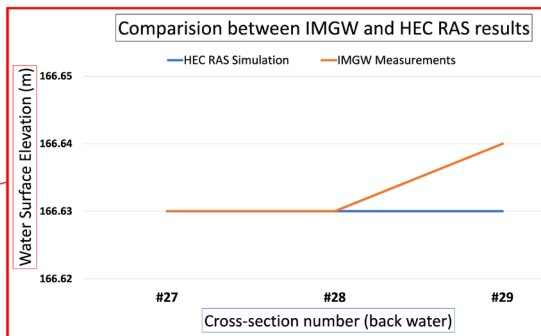
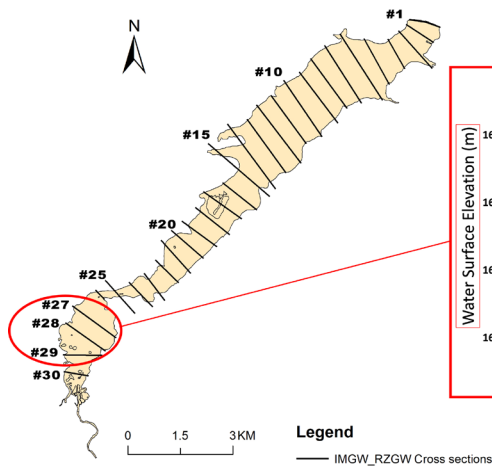
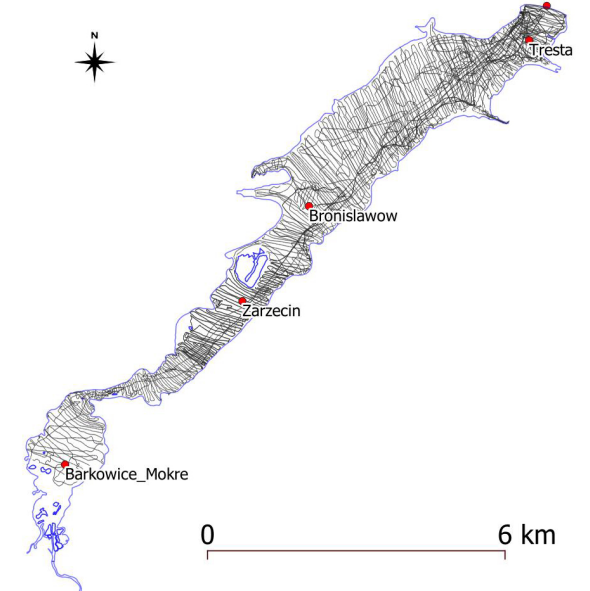
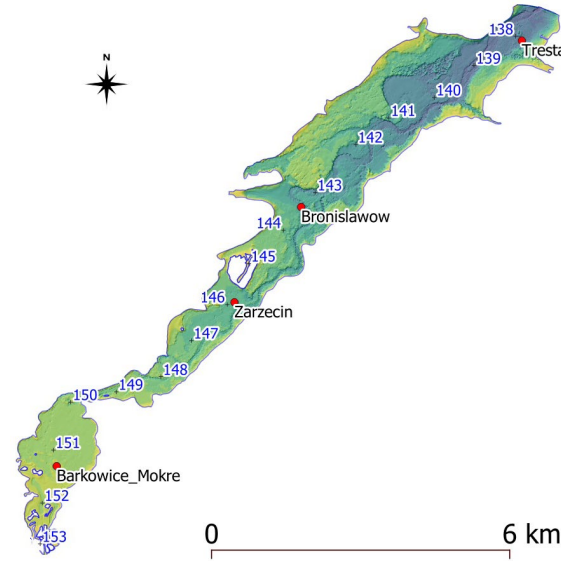
Peshang Hama Karim<sup>1</sup>, Aleksandra Zieminska-Stolarska, Artur Magnuszewski

<sup>1</sup>University of Warsaw, p.hamakarim@student.uw.edu.pl



### Legend

- Country boarder
- Voivodships
- pilica river catchment
- Sulejów reservoir coast line



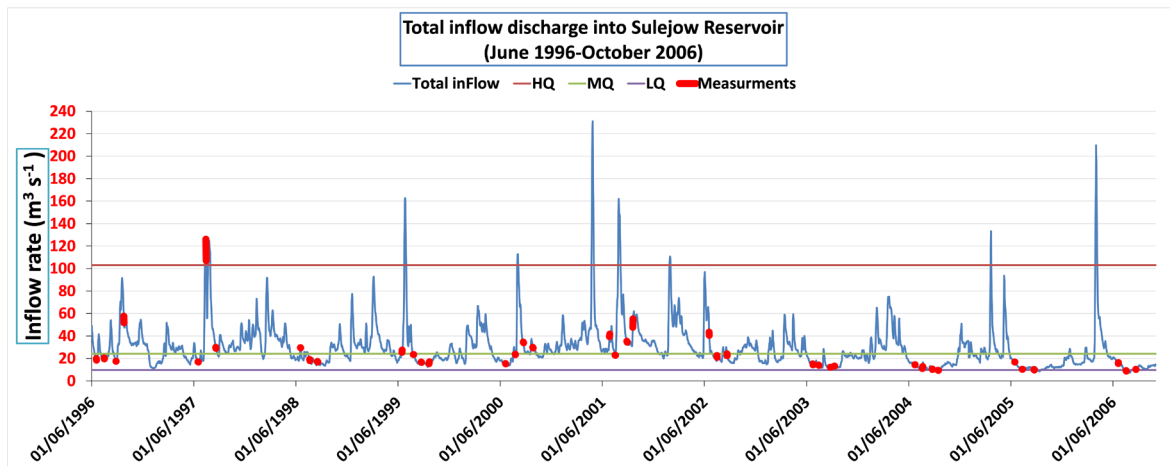
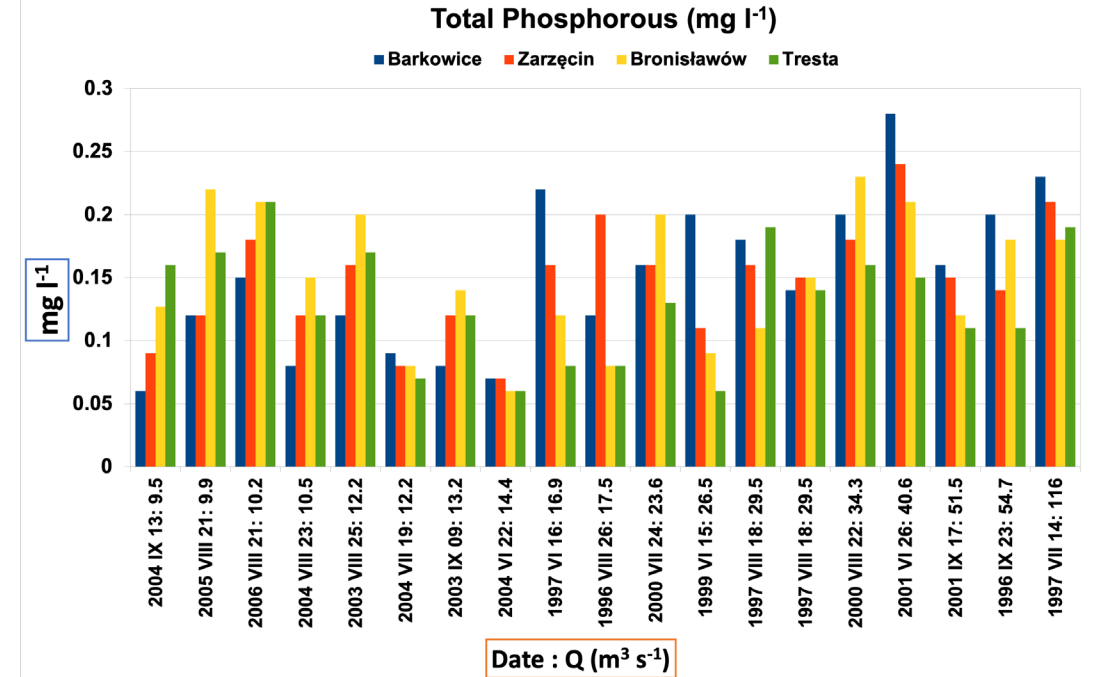
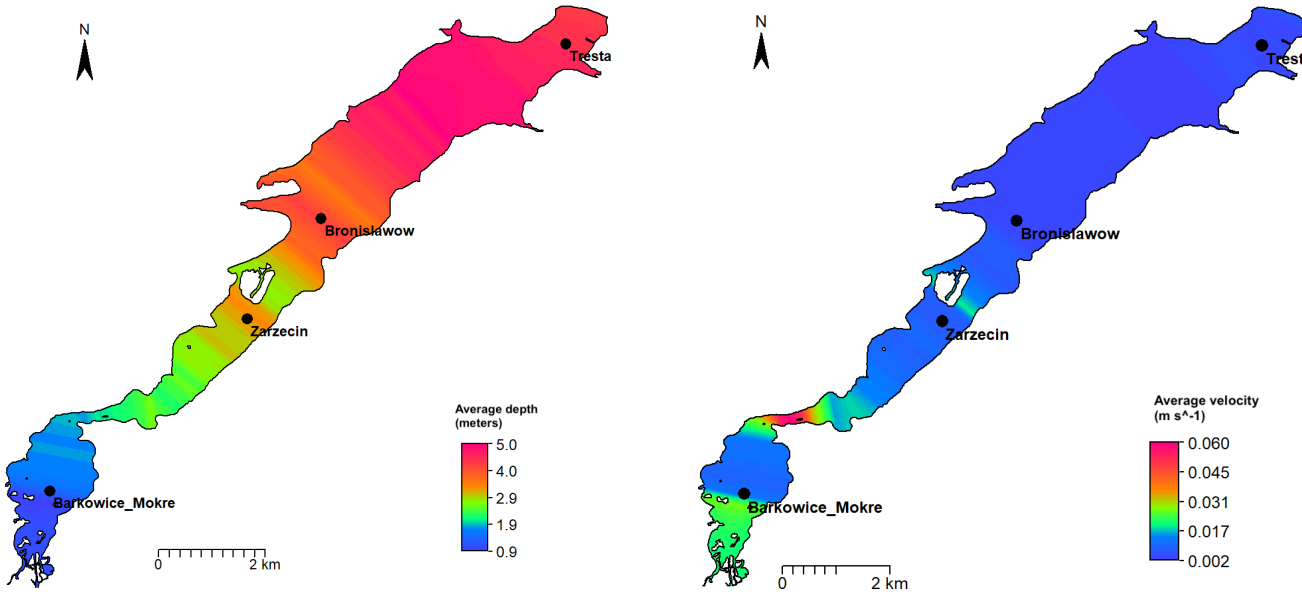
### Legend

- IMGW\_RZGW Cross sections

# Hydraulic properties of Sulejów Reservoir in Poland as a driving factor of sedimentation processes

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- The reservoir is mostly a **sink for TP**. But during the low flow and high temperatures at the end of the summer, it starts to be a **source** due to a phytoplankton bloom.
- The Reservoir is exposed to the strong impact of nutrient flux from the catchment of the Pilica River and its direct sub-catchment.
- There is no relation between TP and Q.
- Most of the measurements show a decrease in TP concentrations.
- Locally increased concentrations in the Bronisławów monitoring point.
- The hydraulic 1D model gives a better picture of the longitudinal distribution.