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# Long term research and monitoring along the brownwater river Tudovka (Tver Region, Russia)

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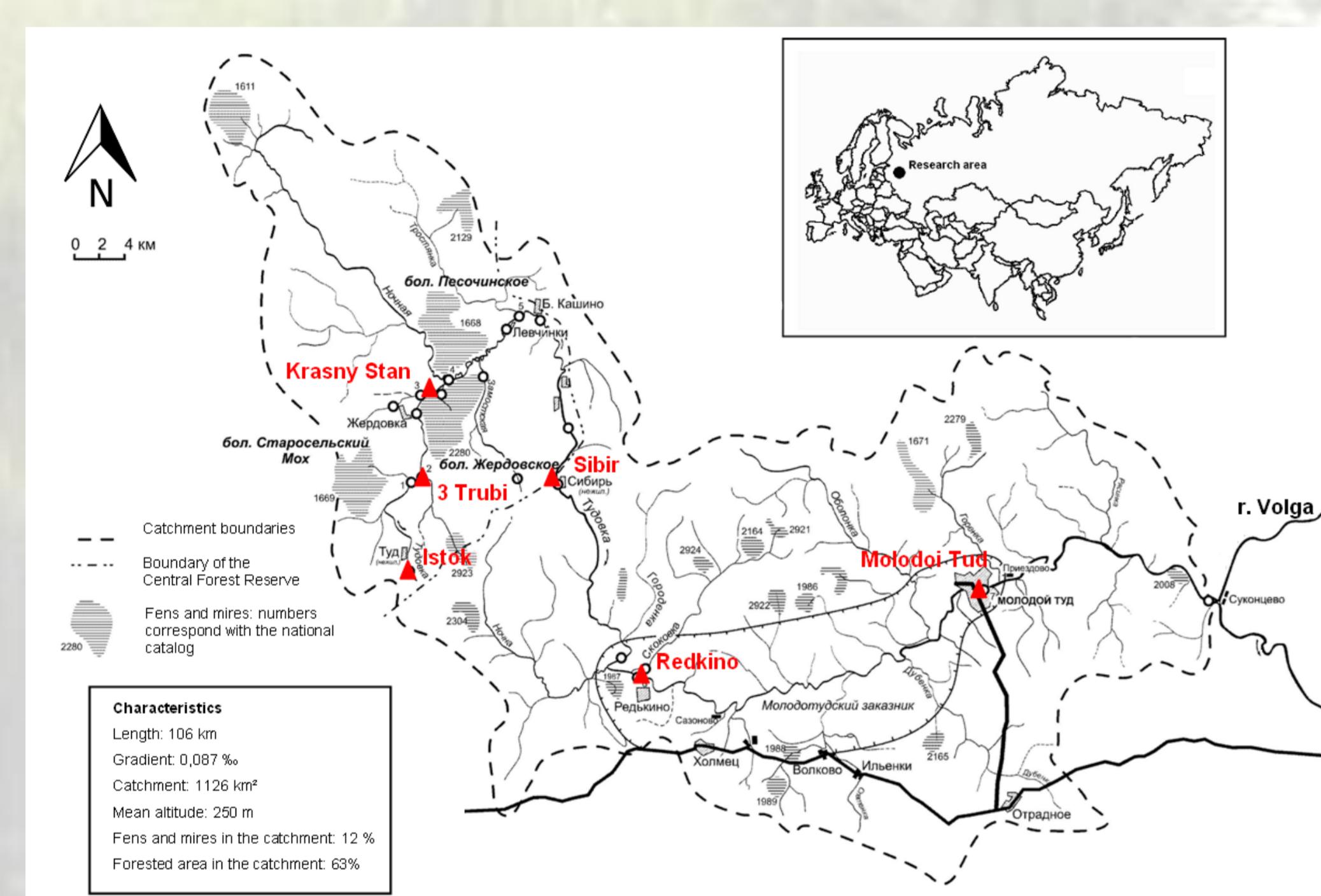
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## Introduction:

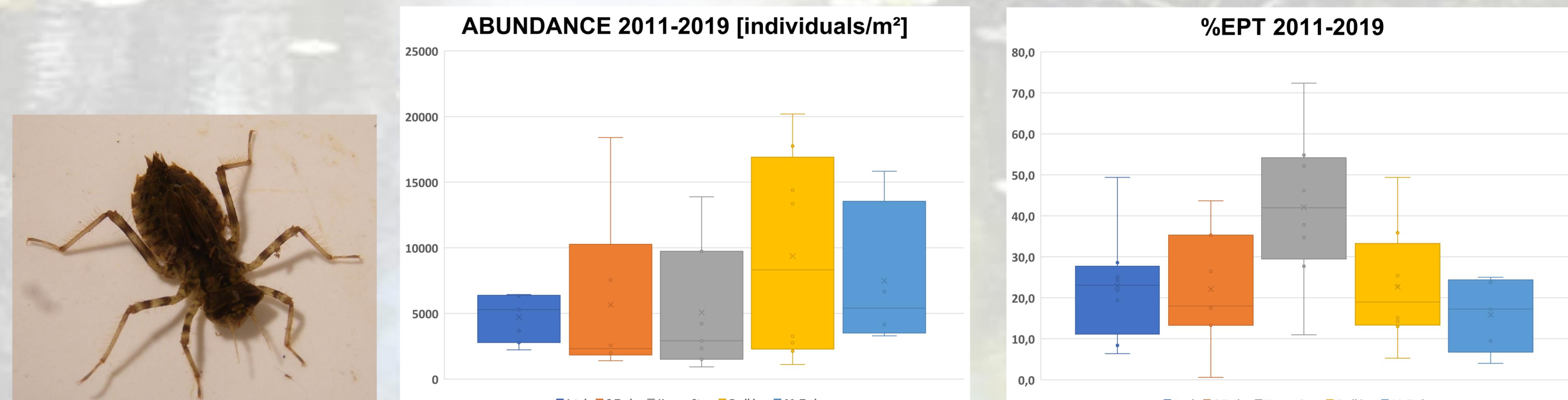
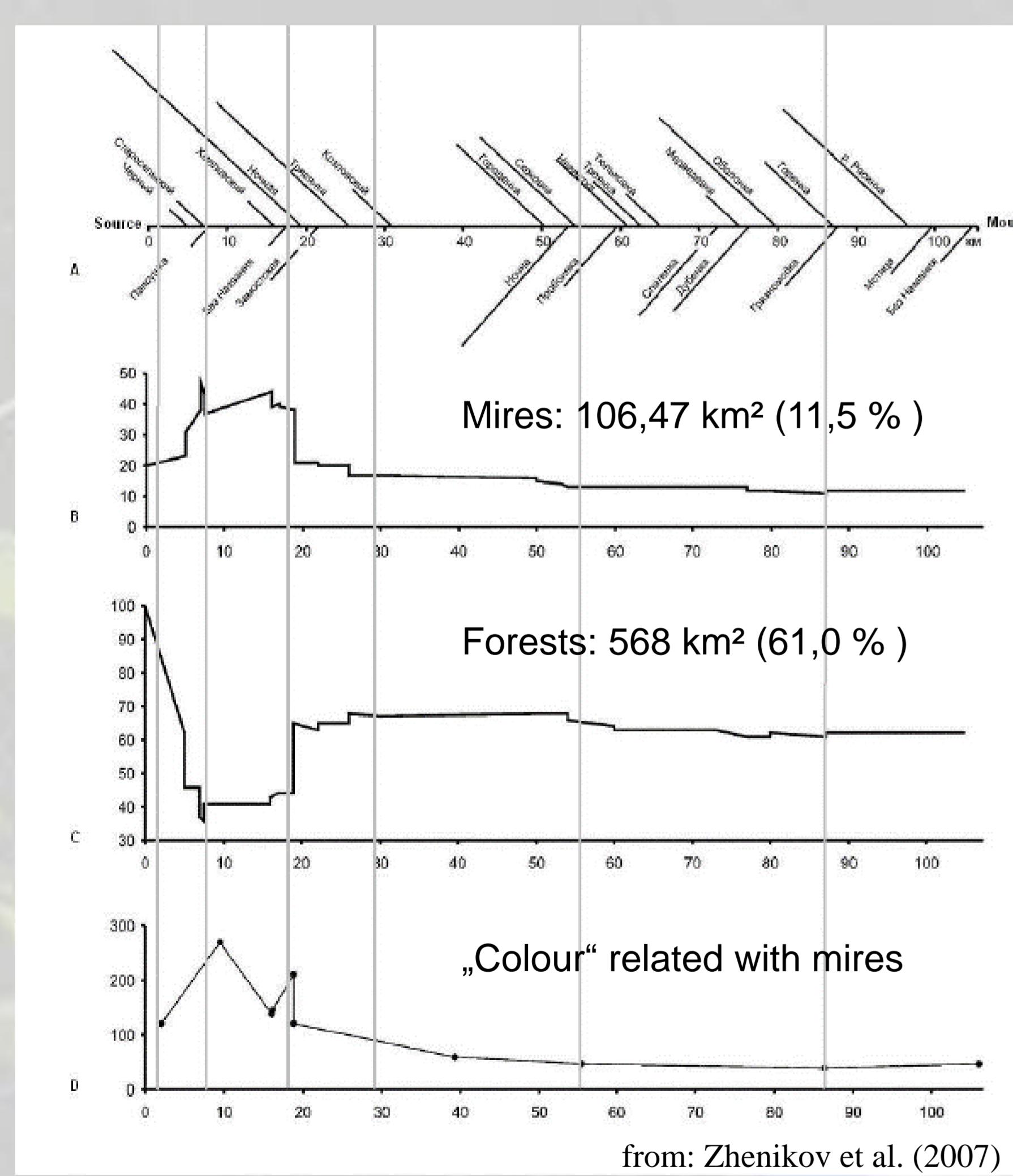
Analyses of macroinvertebrates  
of the Tudovka River (since 2006)



### Framework: REFCOND\_Volga (Schletterer et al. 2016):

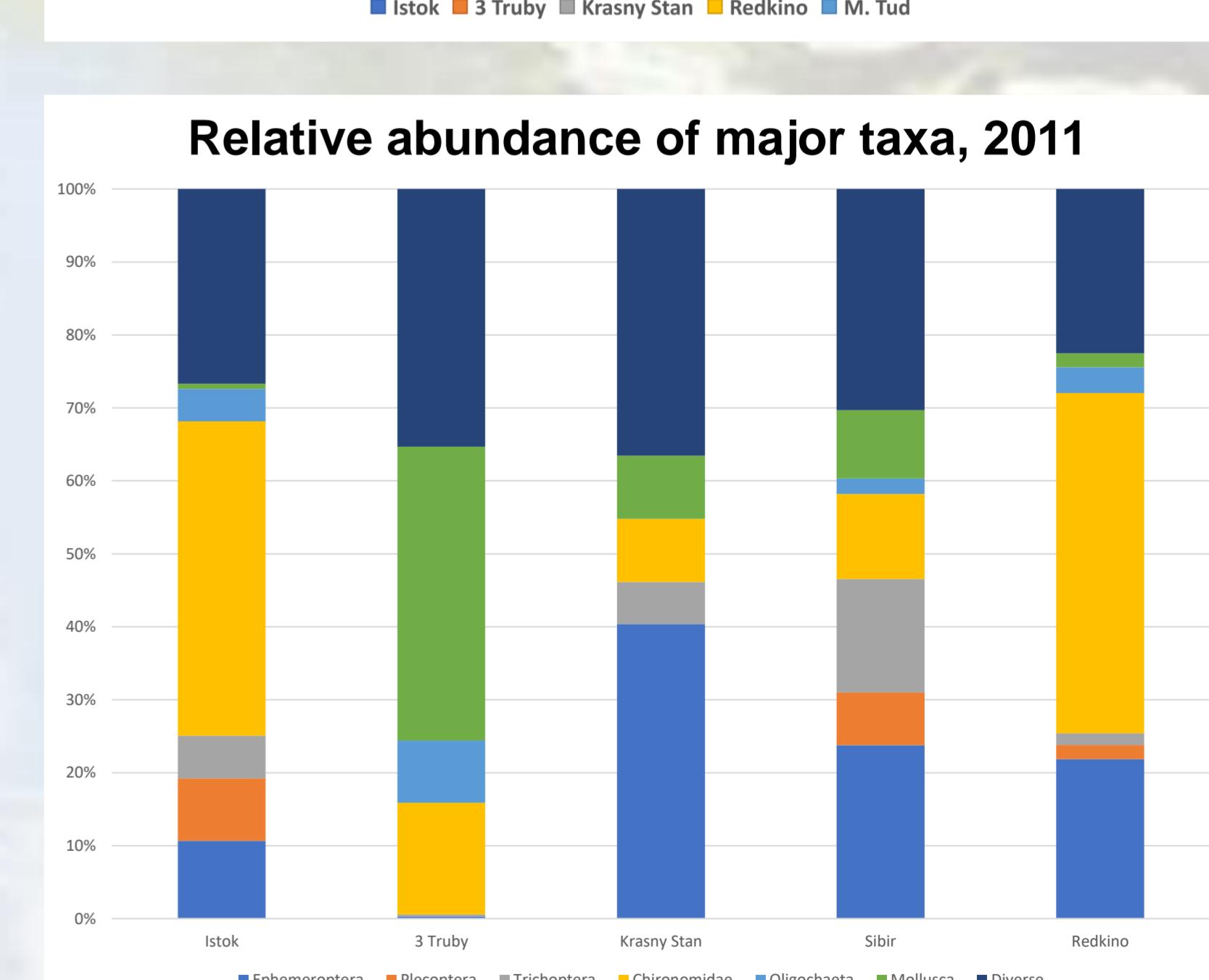
- Long term monitoring to analyze the ecology of rivers in the Eastern lowlands (# 16)
- Seasonal and temporal variability at reference sites
- Hydromorphological conditions & habitat availability
- Climate change: linking temperature & biota

## Results:



### Characteristics of the zoobenthos community (2011-2019):

- Low abundance at sites with high % of mires in the catchment
- Mean abundance reaches the maximum in the lower course
- EPT taxa (Ephemeroptera, Plecoptera, Trichoptera) are an important component (mean between 15.9 and 42.1%)
- % EPT taxa reach a maximum in the middle course of the river



## Conclusions:

- Long term ecological research and monitoring is needed in order to understand variability under reference conditions.
- Longitudinal changes along the Tudovka river can be explained by the RCC (Vannote et al. 1980).
- This dataset reveals insights into the community structure of the brownwater river Tudovka.