





Ministerstvo životního prostředí









Malsemuschel field activities (Czech side)

2017

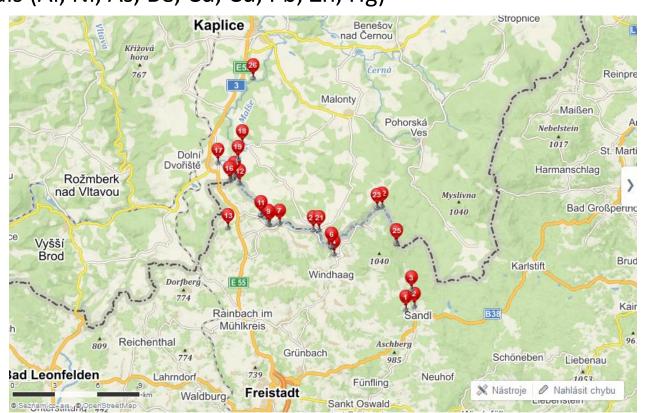
- Continual (monthly) water chemistry monitoring → detection of pollution sources
- River exploration bottom and shore stability mapping
- Bioindication
- Semi-natural breeding MM from Maltsch (3 ex. Salmo trutta = 6000 MM juvenils)
- <u>Signal crayfish</u> 5 km up the MM colony, biohazard = *Aphanomyces astaci* → eradication T.G.M. research institute
- PR activity: kick-off event, meeting with stakeholders

2018

- Continual (monthly) water chemistry monitoring → detection of pollution sources
- River exploration bottom and shore stability mapping
- Bioindication
- Semi-natural breeding (to be continued ...)
- Strenghthening of fish stock
- <u>Electrofishing</u> (CZ + AT)
- Phylogenetic study
- PR activity: meeting with stakeholders, hand book (data collecting)

Water chemistry monitoring - the knowledge of the chemical parameters is essential prerequisite for subsequent management

- regular monthly monitoring on 26 locations
- measurement on site: conductivity, temperature, pH
- measurement in lab: NH₄⁺, NO₂⁻, NO₃, Pcelk, PO₄³⁻, Ca, NL;
- randomly: O₂, CHSKCr, BSK5, KNK, Cl⁻, Mg, Fe, Mn and other metals (Al, Ni, As, Be, Cd, Cu, Pb, Zn, Hg)





Temperatures probes HOBO — obtaining of continuous temperature datas

- → important for capture of unpredictable events
- the location the same as for chemistry monitoring
- hourly records of temperature and lighting
- from August 2017 in the flow
- control and exchange in January 2018

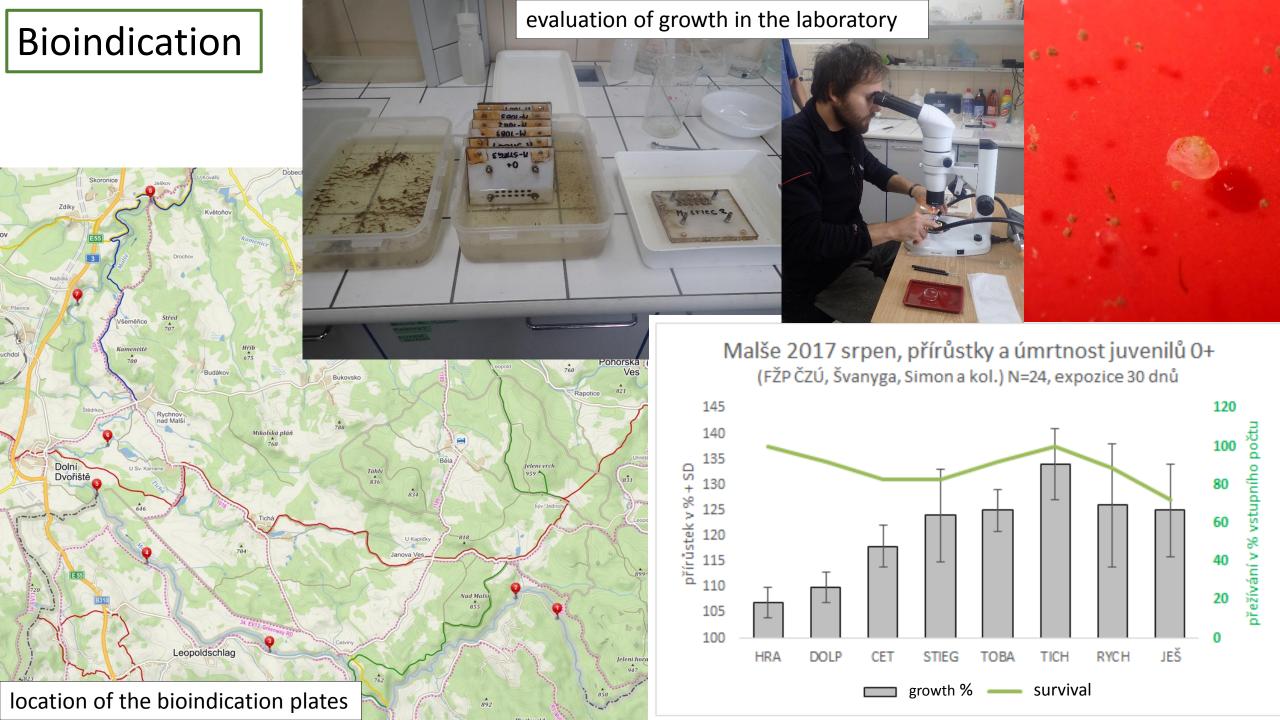




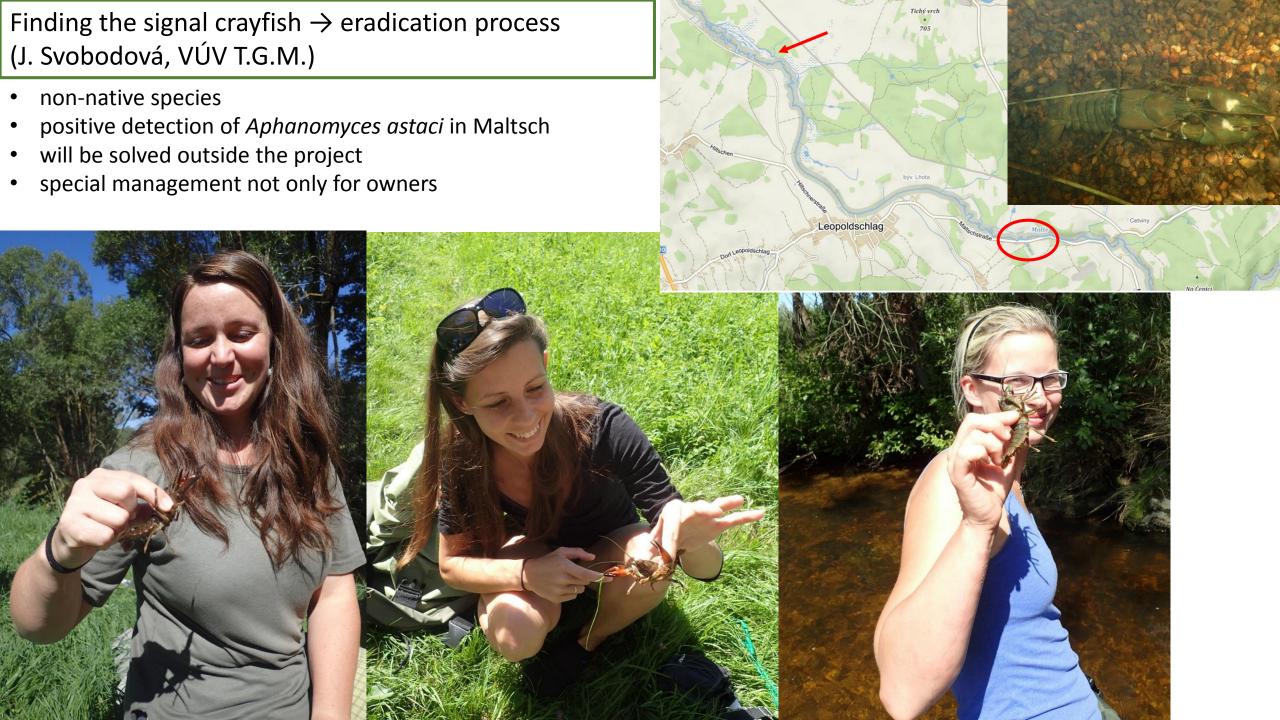


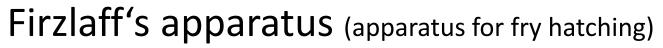
Bioindication - determining the quality of the environment for juveniles











→ support of population of *Salmo trutta*.



 location in Maltsch and tributary

placed 18 apparatus

protected against the predators

 regular checking until fry hatching





Thanks a lot!

Photos from the Maltsch 07/2017 (photo: J. Horáčková, O. Simon)

