

Field campaign Oder (Szczecin) Lagoon 15.-20. August 2016

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OBJECTIVES:

1. A better understanding of the role macrophytes in the lagoon on water quality and transparency:

- Mapping of submerse and emerse macrophytes stands (south-western coast)
- Small scale flow pattern in- and outside of submerse and emerse macrophyte stands
- Analysis of effects on SPM and gradients

2. A better understanding of the role of Zebra mussels (*Dreissena polymorpha*) in the lagoon on water quality and transparency addressing mussel beds:

- Mapping of mussel beds (associated with macrophyte mapping)
- Estimation of mussel filtration on water transparency
- Effect of the mussel farm on sediments and sedimentation

3. *E. coli* concentration and bathing water quality

- Collection and counting of *E.coli* in different locations in the lagoon

4. ADCP measurements in reed belts and macrophytes

5. Data collection for a detailed Ecosystem Service mapping and valuation

- Collection of some parameters for regulating services and more information about cultural services

6. Data collection for a sustainable development indicator application

- Photo documentation of Lagoon

7. Collection of framework data

- Vertical light profiles
- Secchi depth
- Seston & phytoplankton samples
- Chlorophyll a
- Turbidity
- Temperature
- Salinity profile (CTD)
- Wind speed and direction
- PAR