

Three – level monitoring system

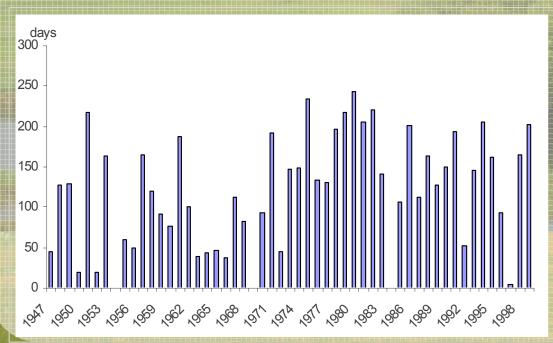


Regional monitoring

An overview of historical and present hydrological condition

Multiannual historical data for

- surface water levels (II + vegetation period)
- precipitation (vegetation period)



IMGW gauges and available data:

Biebrzański National Park

- Burzyn

Karsiborska Kepa, Zajęcze Łęgi, Woliński National Park, Rozwarowo

- Wolin on the river Dziwna: water levels since 1955
- Dziwnów on the river Dziwna: water levels since 1950

Krajnik

- Gryfino on the river Odra: water levels since 1947 or
- Widuchowa on the river Odra: water levels since 1947

Miedwie lake

- Okunica on the river Płoń: water levels since 1961

Peene Valley

- river Peene - ??? (maybe in Anklam)

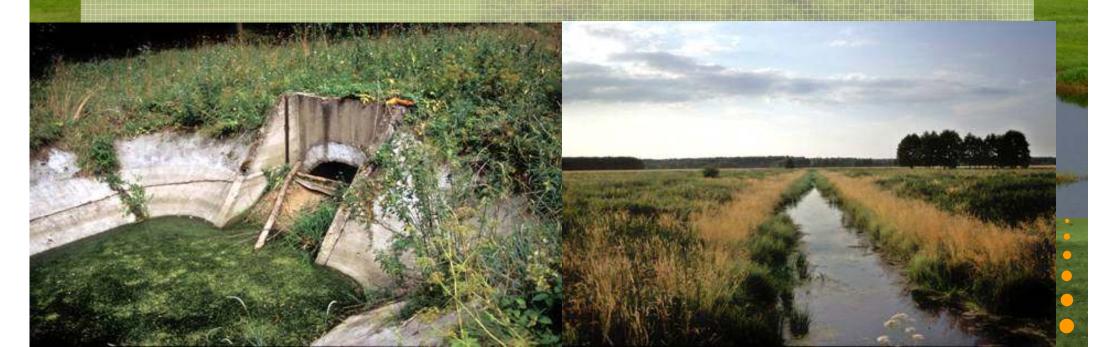
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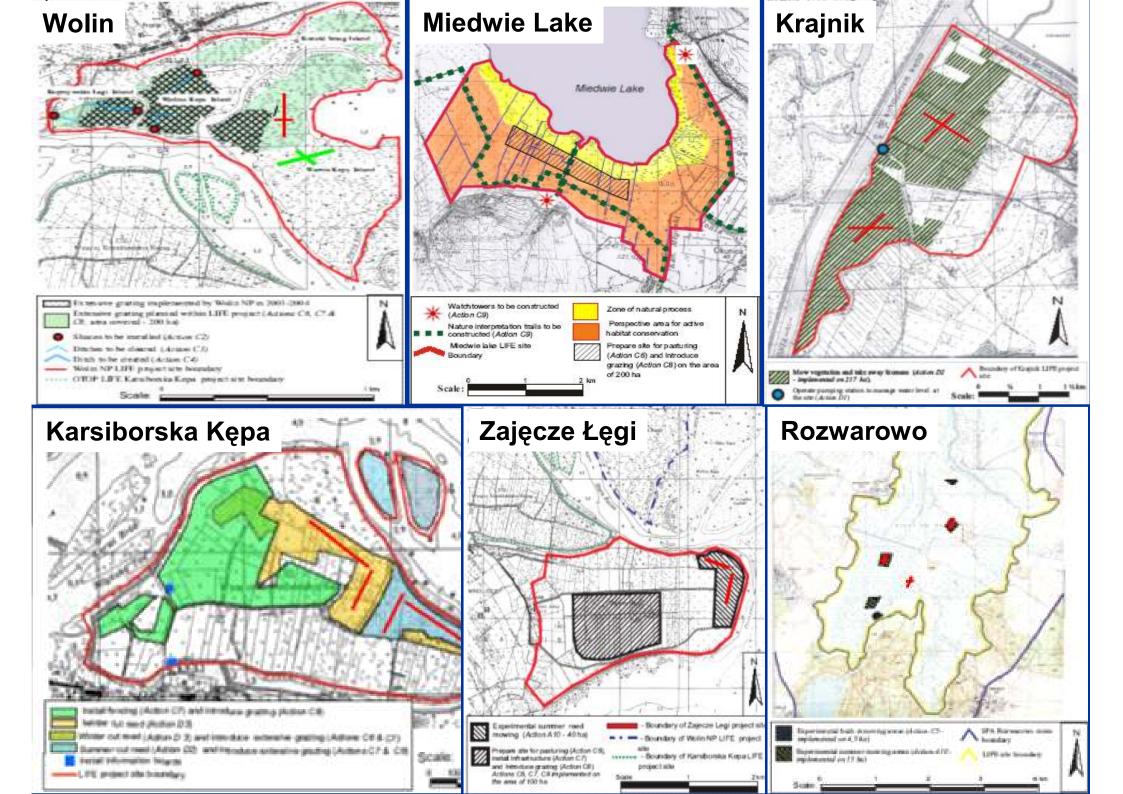


Local monitoring

Structures with potential impact

- Hydraulic structures inventory, which have a potential impact on monitored sites
- Maintenance activities (dredging, mowing, etc) which may have a potential impact





Three - level monitoring system



Site monitoring

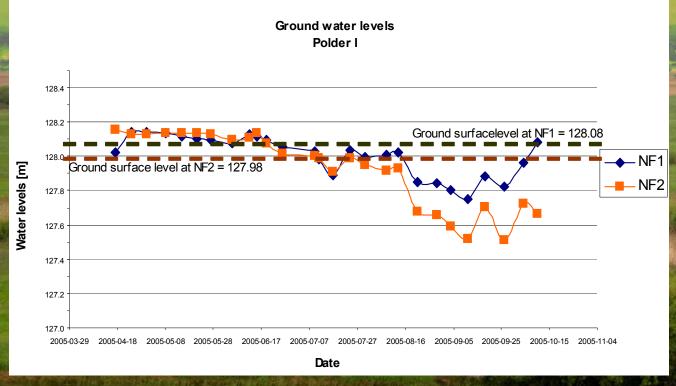
Ground and surface water level monitoring:

Piezometers on selected transects, observation in 10 days period

or equiped with d-divers



Results









Biebrza National Park



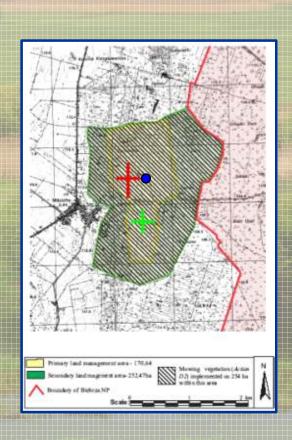
Existing piezometer with Diver





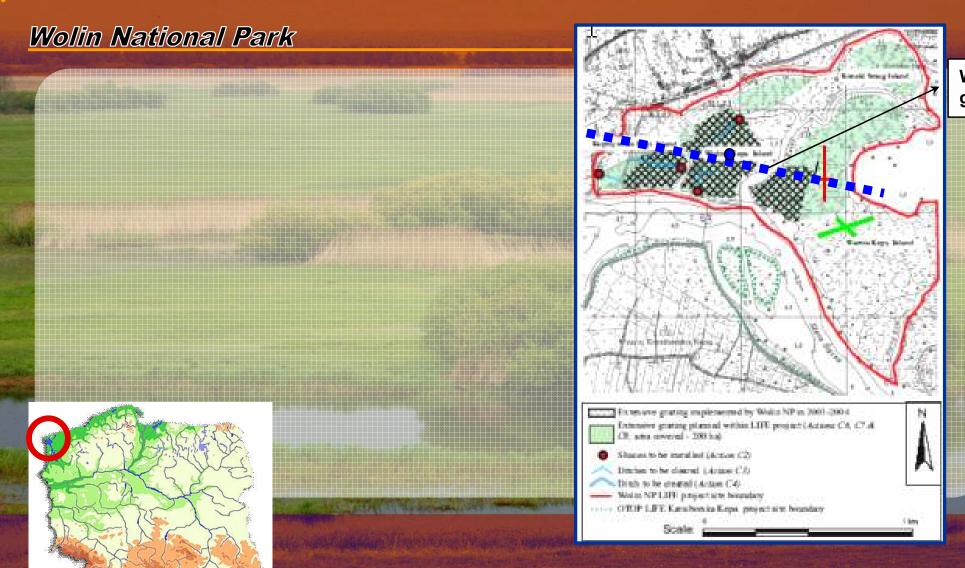
Biebrza National Park







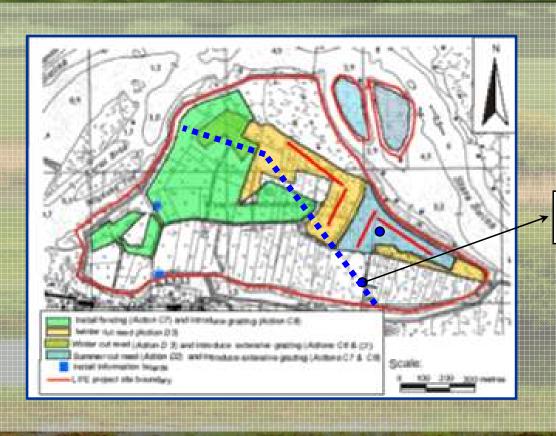




Water gauge



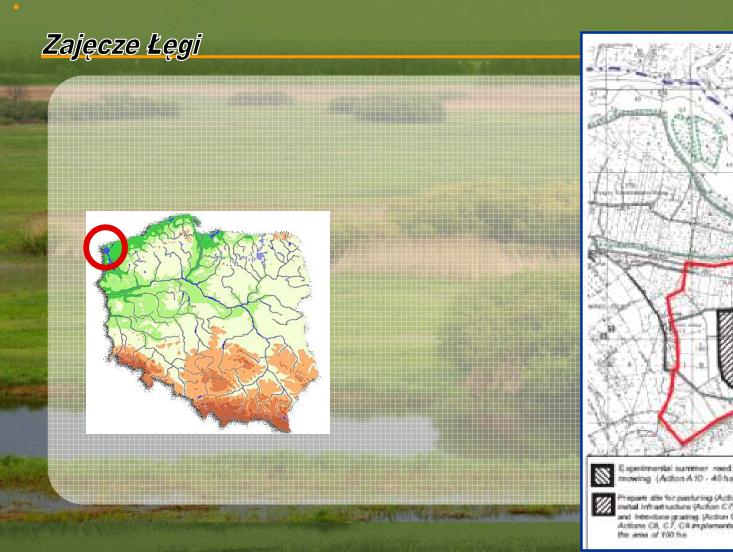
Karsiborska Kepa

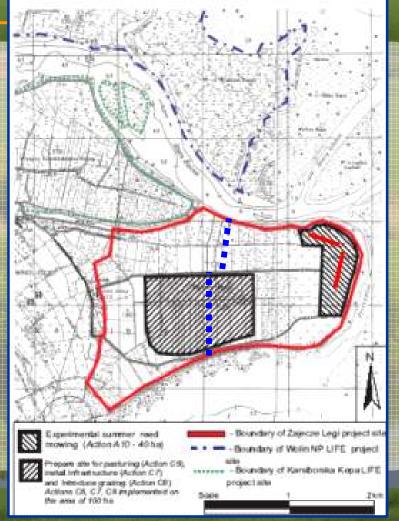




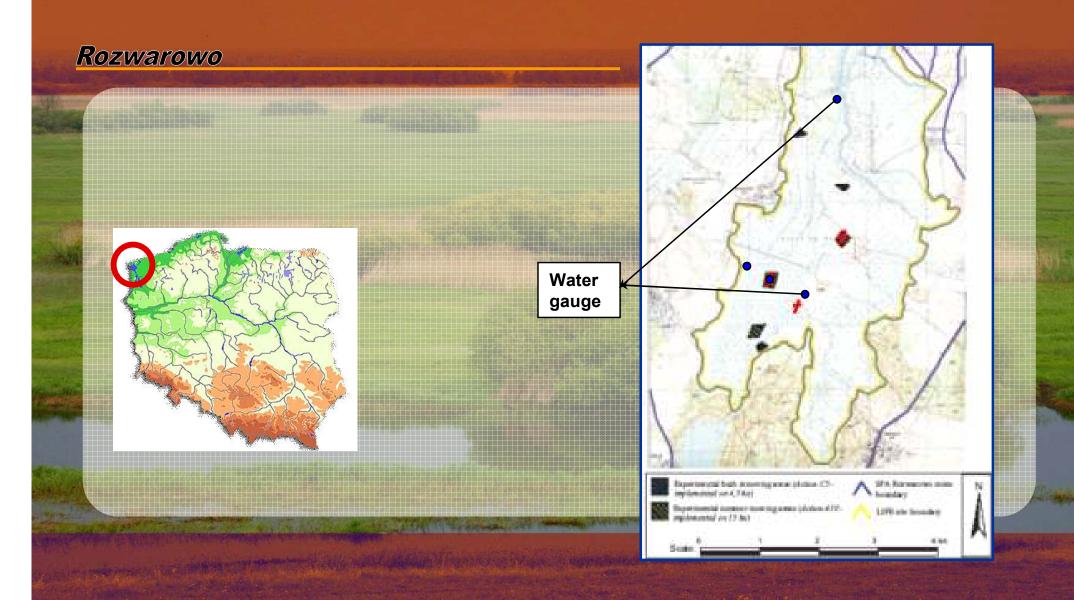
Water gauge



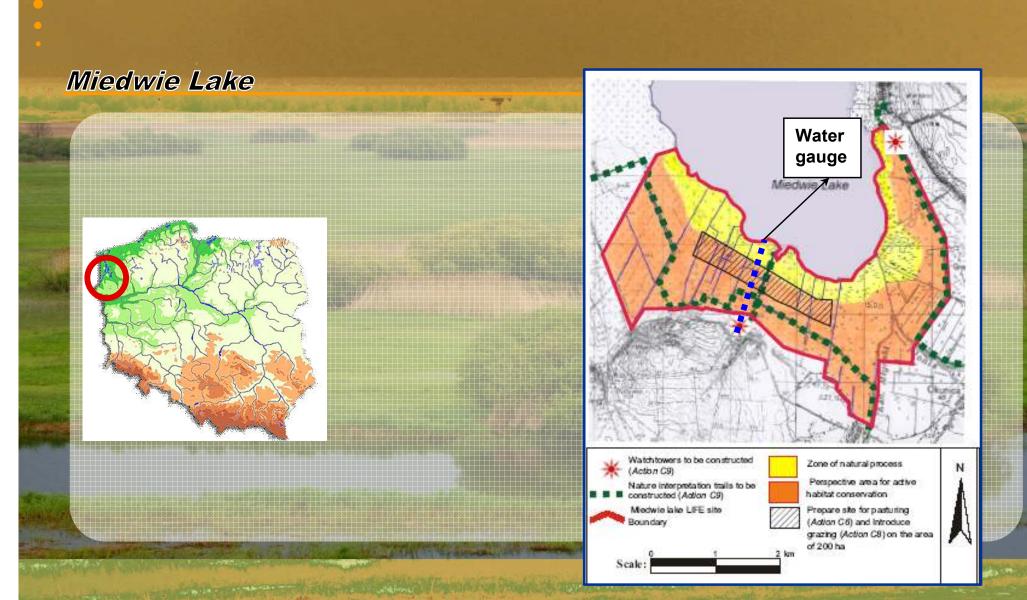




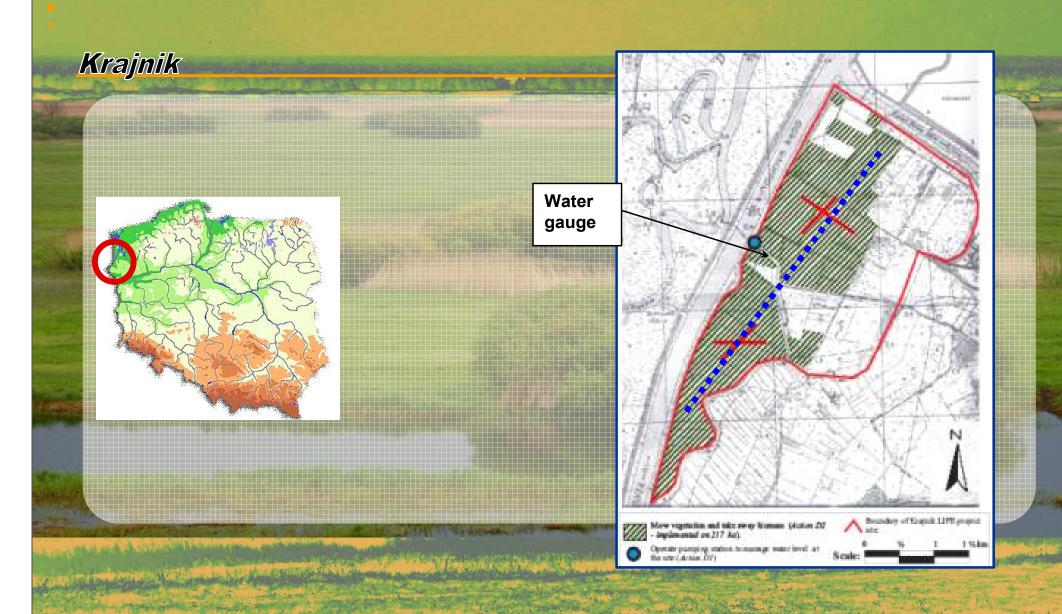












Cost estimates



Divers:

5200 - 5500 zł

Piezometers:

30 zł per 1 piezometer and 50 zł for establishment

Gauge:

300 zł for 1 one meter of Gauge (1 mb) + 700 zł for establishment

Hydrometeo data: IMGW

One value = 4 zł + VAT

Travelling costs: varies – depending if the specialist are coming from Warsaw or Szczecin (2 trips)

Observation costs: (e.g. gauge observation 150/month)

