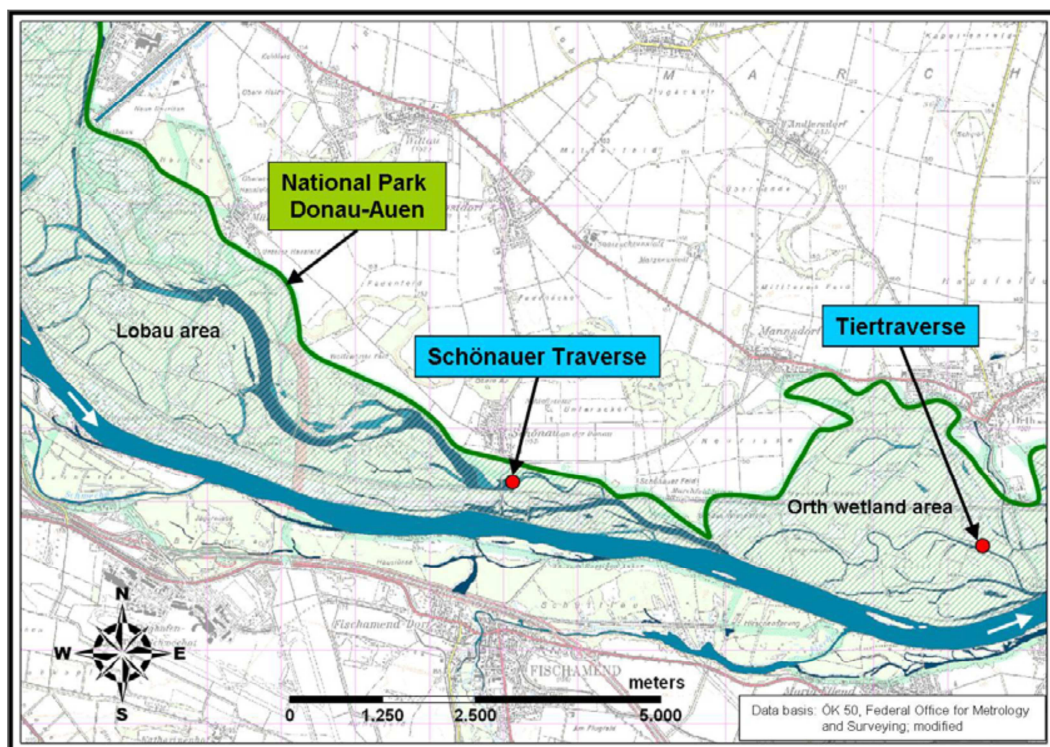


Study site: Danube Floodplains

The investigated riverine wetlands are located in the National Park Donau-Auen in the river floodplain stretch of the Danube River east of Vienna. These wetlands are characterized by different surface water exchange conditions with the river main channel. The Lobau is only connected at the downstream end and thus, show completely different characteristics and development trends in several ecological properties compared to the Orth wetland area. The sites within the wetlands are situated at the downstream part to assess in- and outputs in the Lobau wetland and outputs in the Orth area.

Hourly water level recordings are available for the Danube River as well as information from a monitoring station in the river (downstream of the investigated wetlands. In the wetlands daily water level recordings are available. A meteorological station of Central Institute for Meteorology and Geodynamics (ZAMG) is in close vicinity of the sites.



At the study sites „Tiertraverse” (Orth wetland area) and “Schönauer Traverse” (Lobau) the following datasets and instrumentations are available:

1. Concentration of nutrients and carbon in the surface water

- Measurements just in case of a flood event
- PO_4 , NH_4 , NO_2 , NO_3 , P_{tot} , DOC
- automatic water sampler (SIGMA SD900)
- Schönauer Traverse: 8 h interval since July 2010
- Tiertraverse: 8 h interval since October 2010

2. Water temperature, elect. conductivity, pH-value, oxygen and turbidity

- Permanent measurements
- Schönauer Traverse: 30 min-interval since December 2011
- Tiertraverse: 30 min-interval since October 2010
- YSI multi-parameter probe