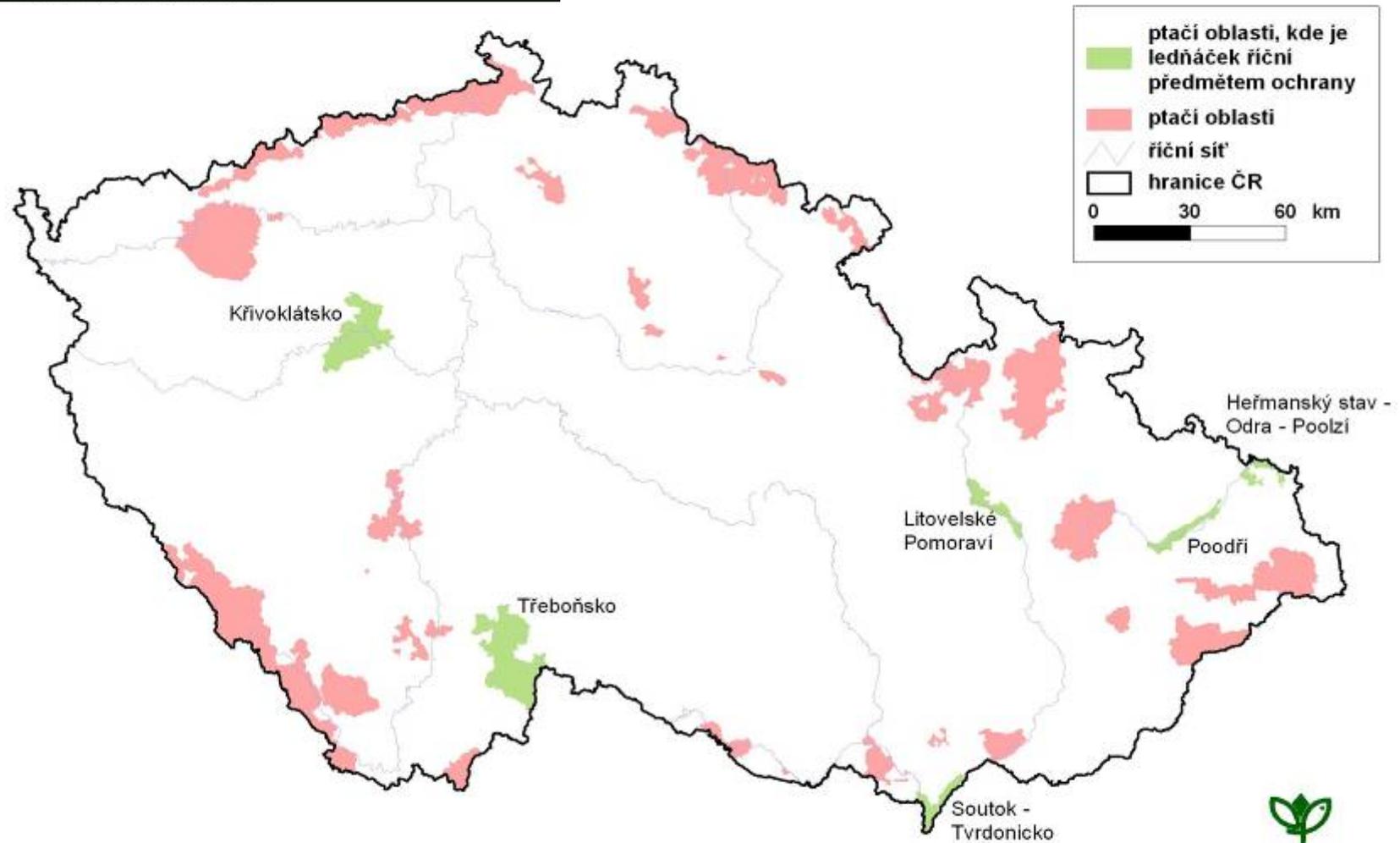
An aerial photograph showing a river winding through a dense, green forest. The river has several meanders and small islands of sand and rocks. The surrounding forest is thick and lush, with some trees showing early autumn colors. The overall scene is a natural, undisturbed landscape.

**Conservation of the Common Kingfisher (*Alcedo atthis*)
in the Litovelské Pomoraví PLA
in the frame of recreational activities**

Ivo Machar

Katedra biologie PdF UP v Olomouci

Bird areas in the Czech Republic



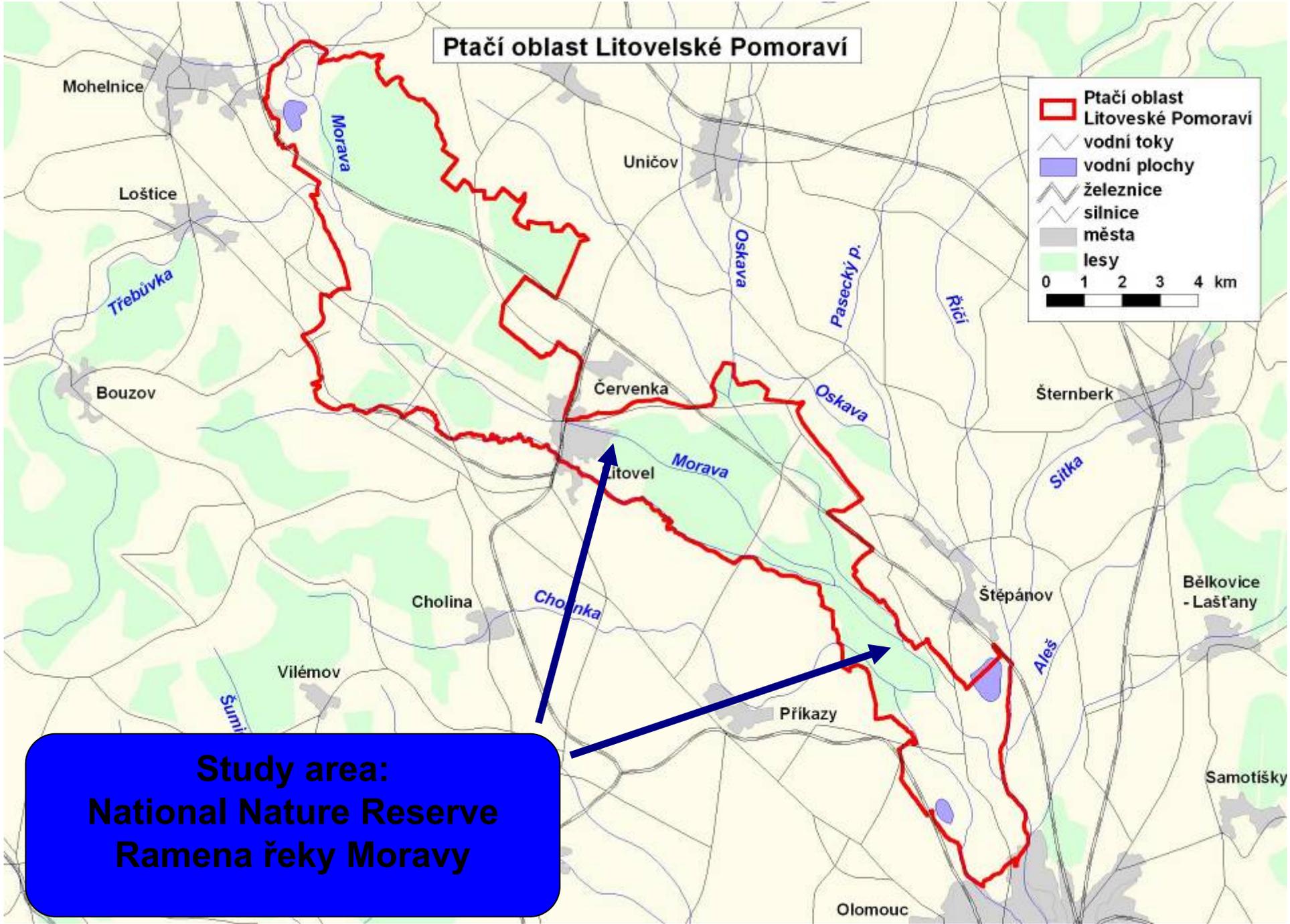
© AOPK ČR, 2007

Ptačí oblast Litovelské Pomoraví

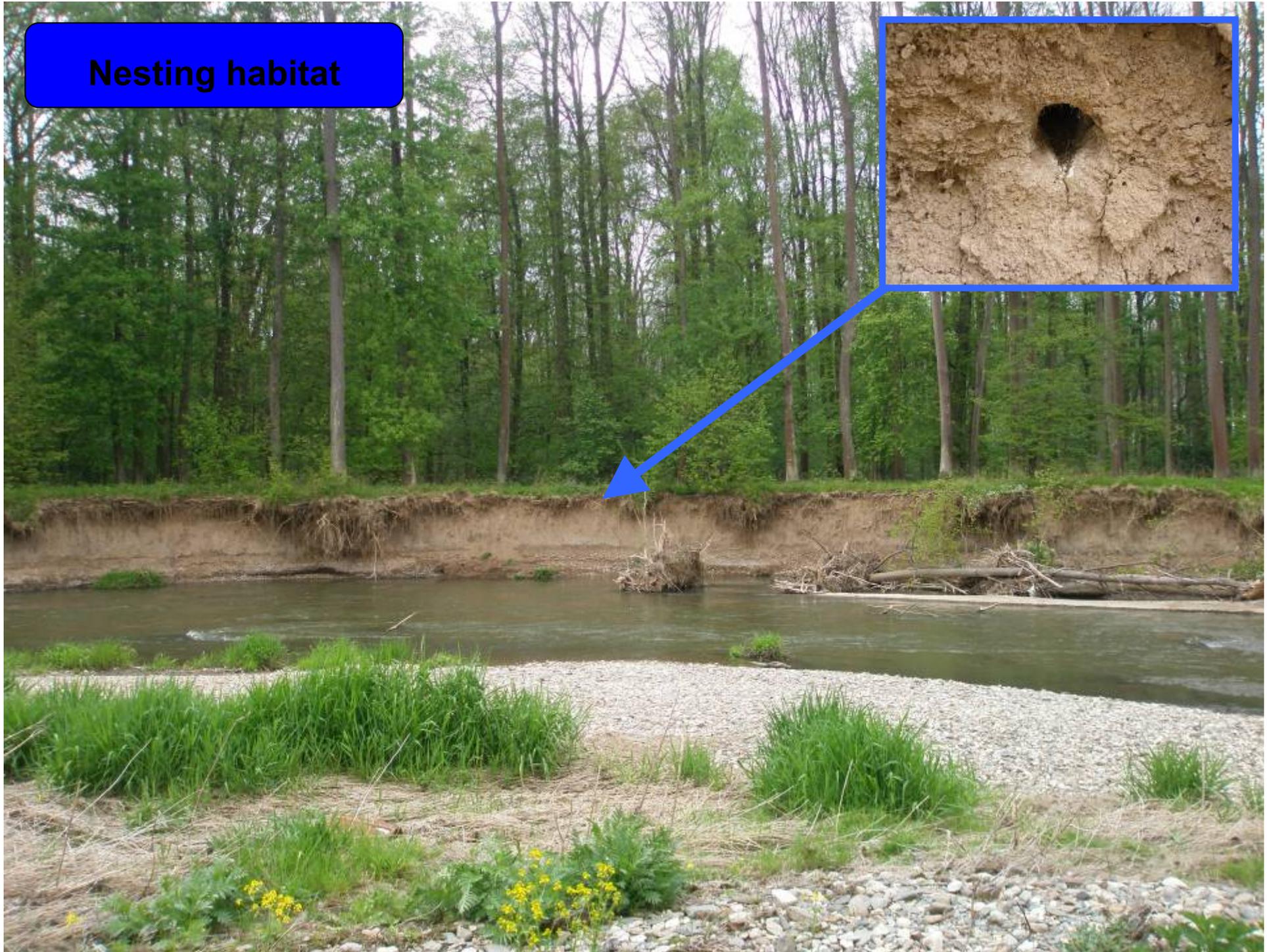
- Ptačí oblast Litovelské Pomoraví
- vodní toky
- vodní plochy
- železnice
- silnice
- města
- lesy

0 1 2 3 4 km

**Study area:
National Nature Reserve
Ramena řeky Moravy**

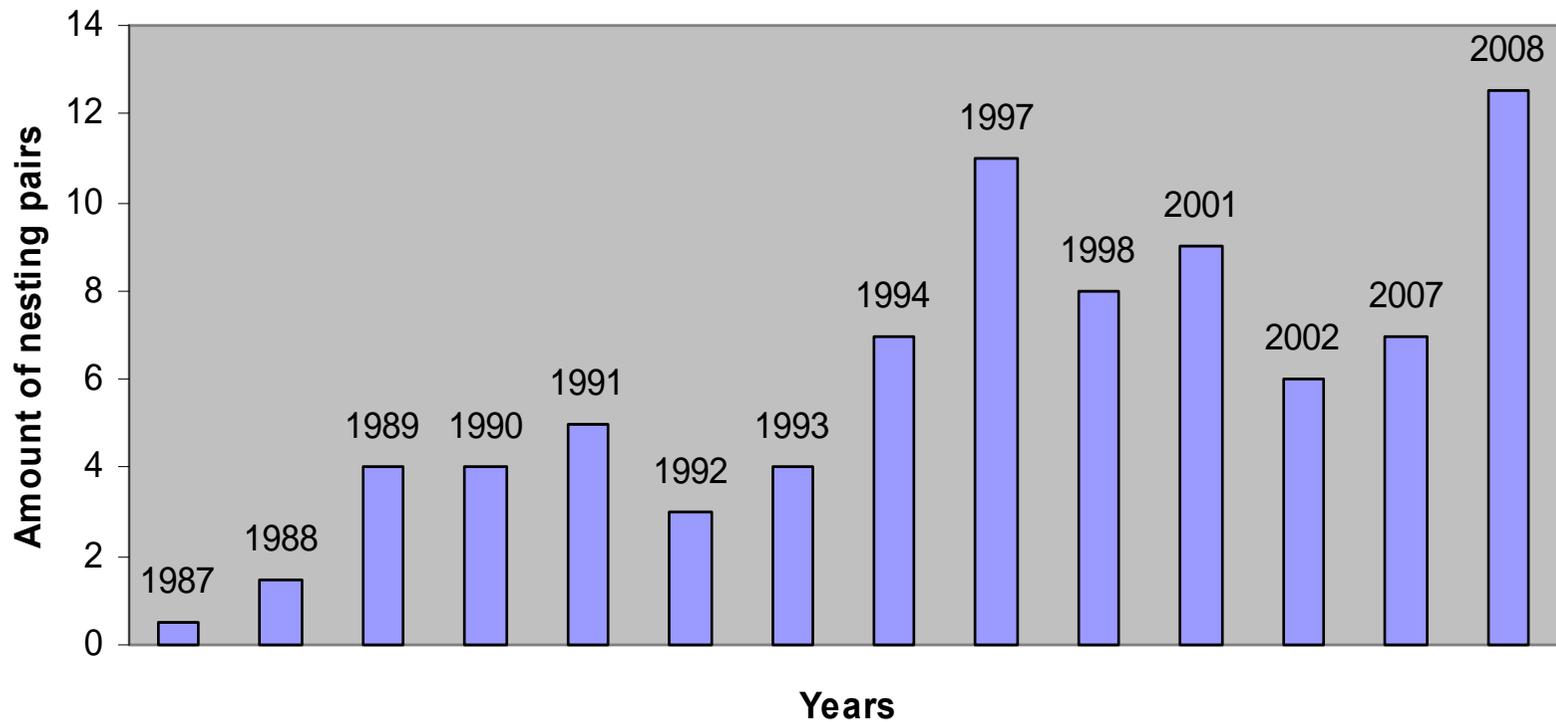


Nesting habitat



Monitoring since 1987

Machar I., 2008: A proposed target state for a floodplain forest ecosystem within an ecological network, with reference to the ecological requirements of an umbrella bird species. Journal of Landscape Ecology, 2: 80-98.



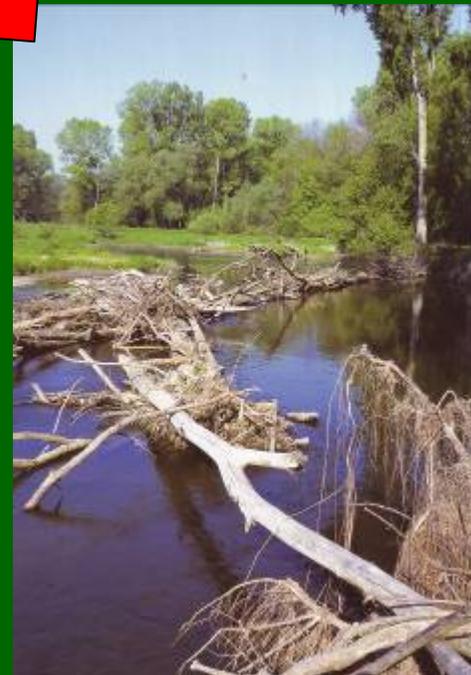
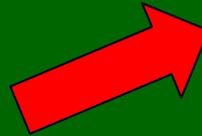
Breeding of Kingfisher versus waterman's activities ?



**Fluvial dynamic
of meandering river → big trees
in the mainstream**



**A new nesting habitats for Kingfisher
(steep river banks)**



**Fallen trees =
hurdles for
watermen and
canoeing**

**Šindlar M., Lohniský J., Zapletal J., Machar I., 2010:
Wood debris in rivers
– one of the key factors for management
of the floodplain forest habitats.
Journal of Landscape Ecology, 2 (2): 56-72.**



Special conservation management :
*Clear-cutting and removing of fallen tree in the mainstream
in order to improve going by canoe and rubber dinghies*



Thank You for Your Attention