

# Country report of the Czech Republic



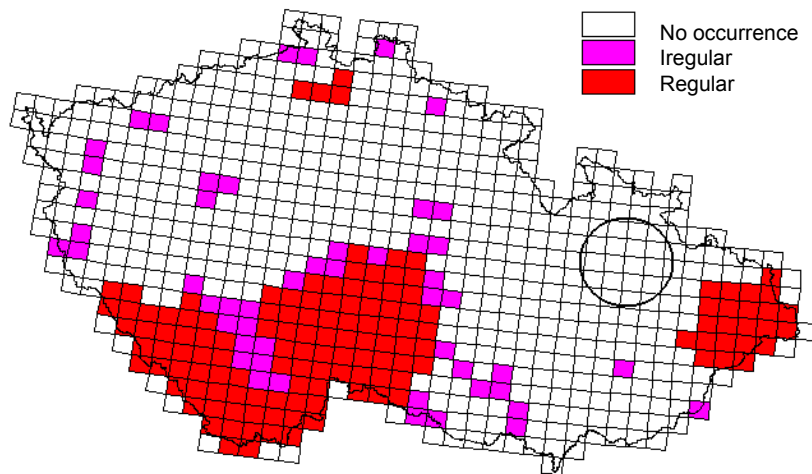
*Lukáš Poledník*

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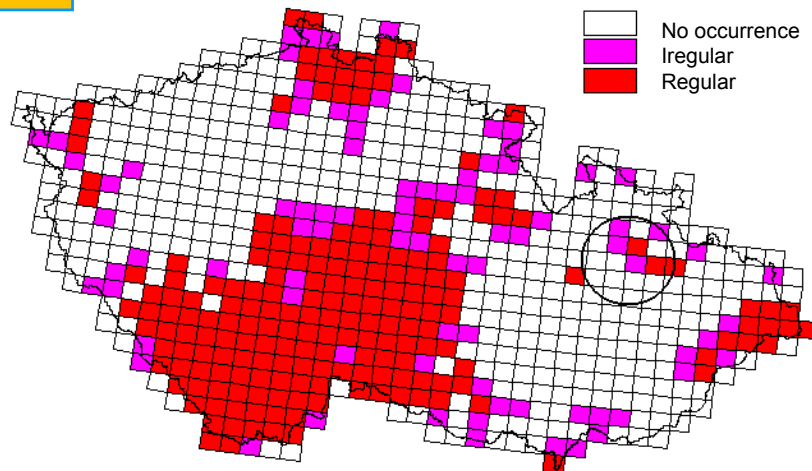
## 1. Distribution

Three national surveys

1992

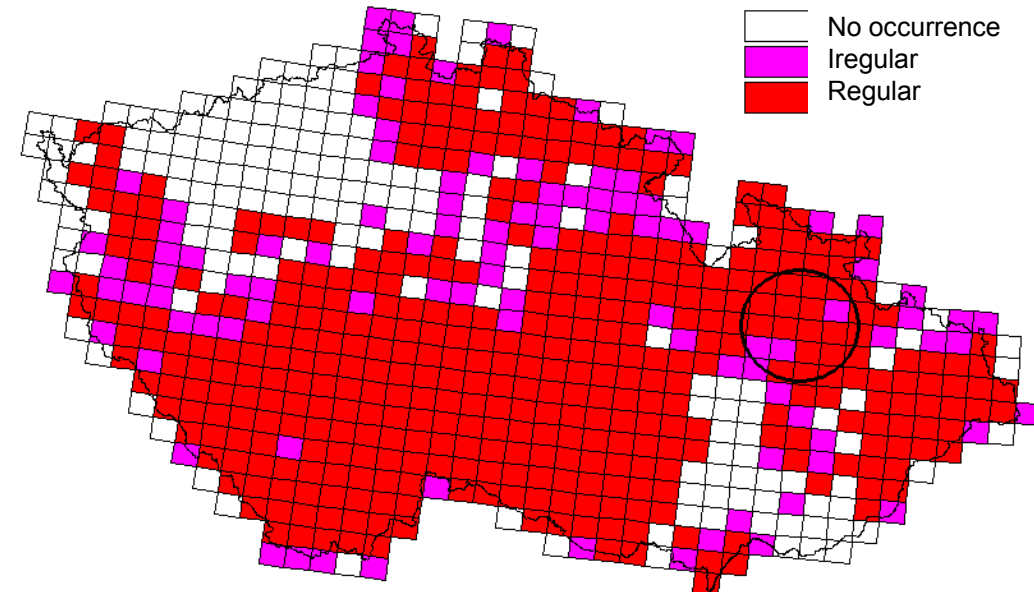


2000



2006

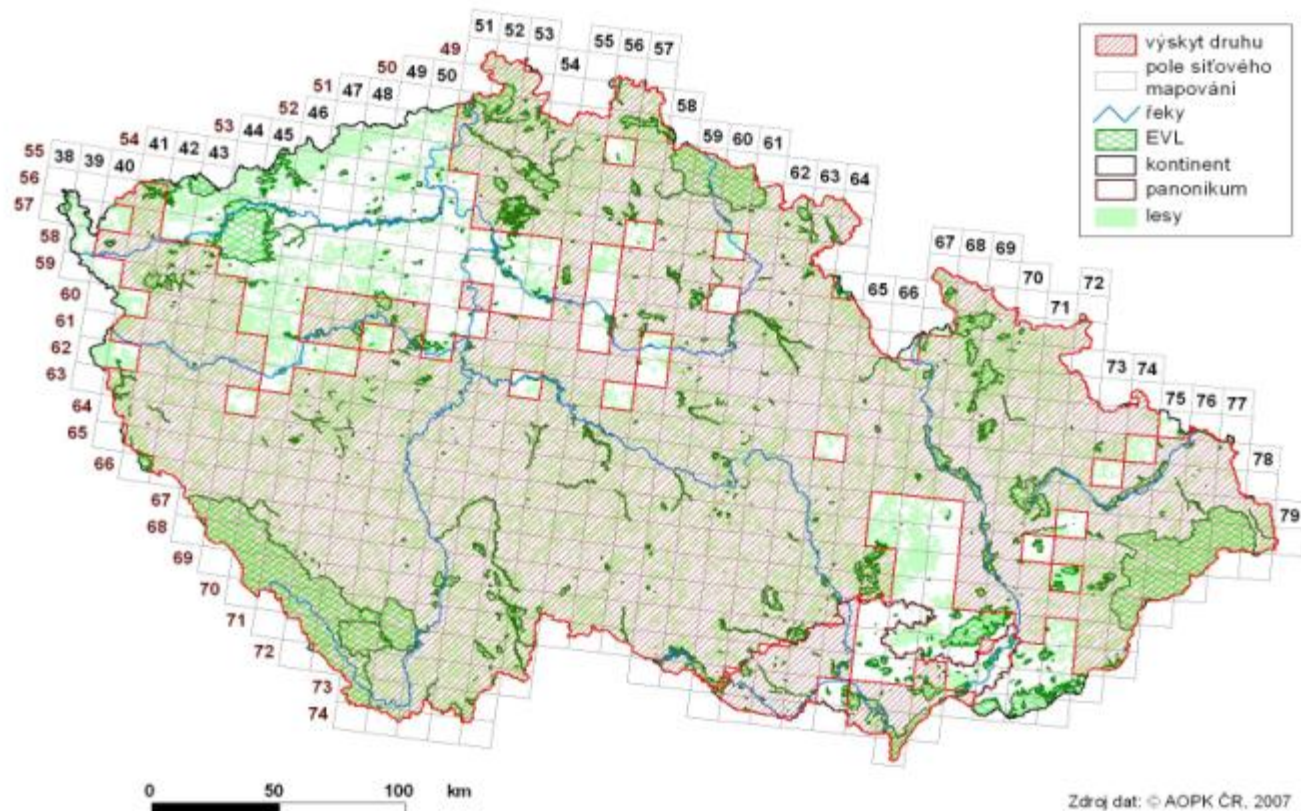
77 % of squares positive  
50% of points positive



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## 2. Geography

- Central Europe, roof of Europe, water-shed of 3 sea
- River basins: the Rivers Elbe, Danube, Odra
- Bioregions: continental, panonicum





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## 3. Habitat

### ➤ Streams, Rivers

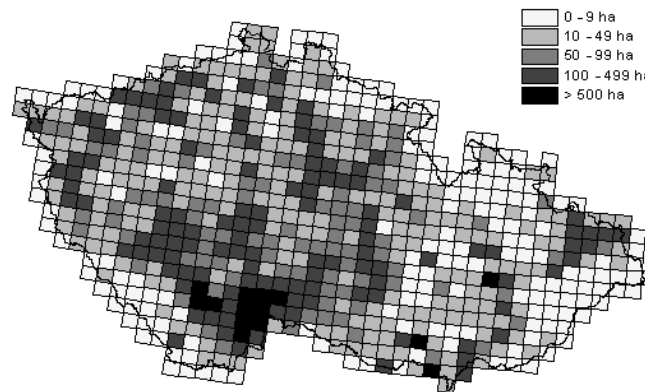




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## 3. Habitat

- Streams, Rivers
- **Fish-ponds**

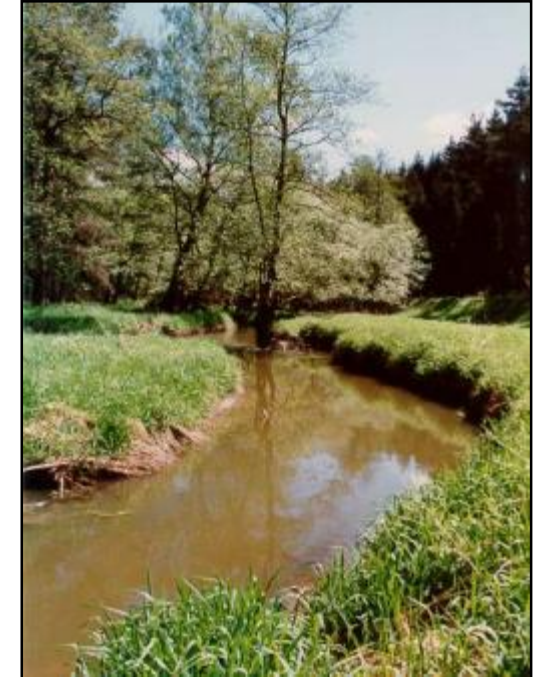
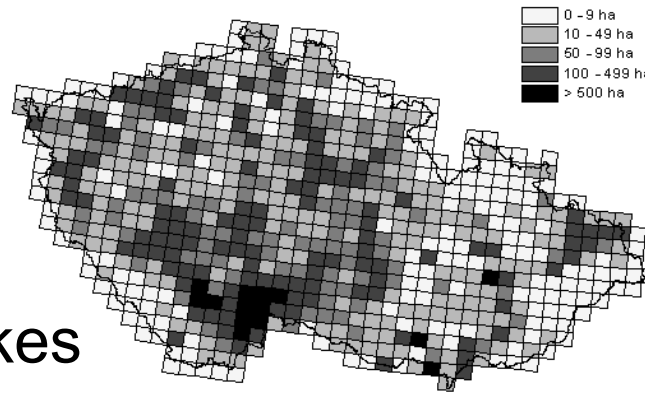




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## 3. Habitat

- Streams, Rivers
- Fish-ponds
- **Water reservoirs**
- almost no natural lakes
- no canals
- no sea coast



## 5. Administration

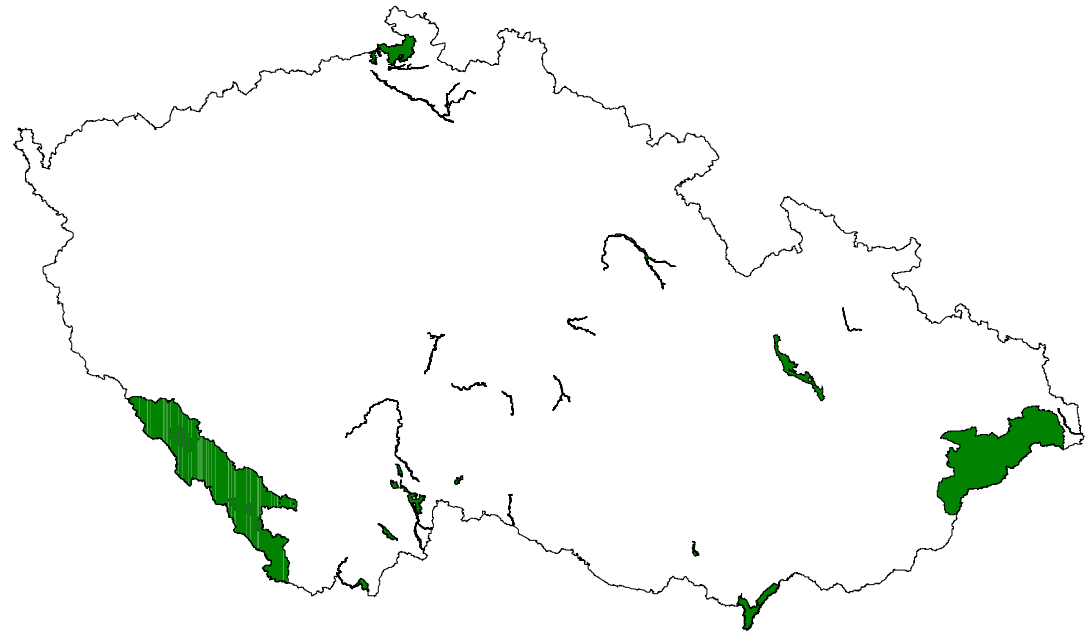
- Centralised
- Laws – at state level
- Regions = NUTS 3
- Towns = NUTS 5

## 6. Protected areas

- System of NP, CHKO, PR, PP
  - no special protection for otter, no special areas for otter

- **NATURA 2000**

- Areas for otter:
    - 47 – 12 000 ha





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## 7. Otters in captivity

### ➤ ZOOS:

Lutra lutra: ZOO Jihlava, ZOO Ohrada

Aonyx cinereus: ZOO Praha, ZOO Jihlava, ZOO Ústí n.L.

Lontra canadensis: ZOO Praha

### ➤ Otter centre:

#### Station Pavlov

- Breeding program
- Orphans
- Education program
- Research activities



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## 8. NGOs

- a) exclusively for otter: no
- b) otter as a high priority species:



- Found in 1993
- Mainly education



- Found in 2007
- Mainly research

## 9. Research projects

### › Institutions:

- Universities: mainly in form of diploma works  
(Ostrava, Olomouc, Brno, Praha, České Budějovice, BOKU Wien)
- NGO: COFF, ALKA Wildlife
- AVČR

### › Current projects:

- 1. COFF: primary and secondary damages caused by otter
- 2. ALKA Wildlife, ANCPL, UBO AVČR: population modelling
- 3. UBO AVČR: historical DNA



## 10. Publications a reports

- Many student works
- Bulletin Vydra (from 90's) – Czech and Slovak
- Journals without impact factor - many

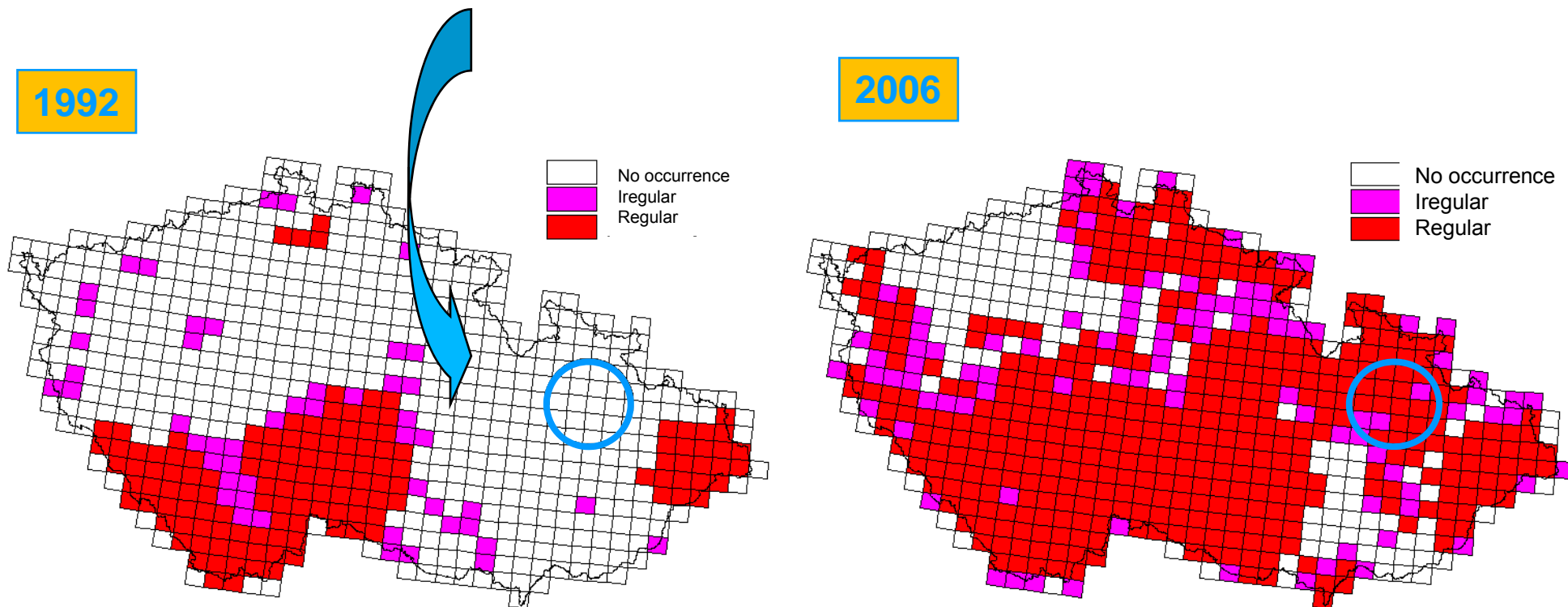
- Impact factor journals:

- ✦ KRANZ A. 2000: Otters (*Lutra lutra*) increasing in Central Europe: from the threat of extinction to locally perceived overpopulation?. *Mammalia*, 64: 357-368.
- ✦ POLEDNÍK L, MITRENGA R, POLEDNÍKOVÁ K, LOJKÁSEK B (2004) The impact of methods of fishery management on the diet of otters (*Lutra lutra*). *Folia Zoologica* 53:27–36
- (*Lutra lutra*). *Fish physiology and biochemistry*, 34: 223-234; DOI: 10.1007/s10695-007-9180-3
- ✦ ADÁMEK Z., KORTAN D., LEPIČ P. & ANDREJI J. 2006: Impacts of otter (*Lutra lutra* L.) predation on fishponds: A study of fish remains at ponds in the Czech republic. *Aquaculture International* 11:389-396.
- ✦ HÁJKOVÁ P., PERTOLDI C., ZEMANOVÁ B., ROCHE K., HÁJEK B., BRYJA J. & ZIMA J. 2007: Genetic structure and evidence for recent population decline in Eurasian otter populations in the Czech and Slovak Republics: implications for conservation. *J. Zool., Lond.*, 272: 1-9.
- ✦ POLEDNÍK L, ŘEHULKA J, KRANZ A, POLEDNÍKOVÁ K, HLAVÁČ V, KAZIHNITKOVÁ H (2008) Physiological responses of over-wintering common carp (*Cyprinus carpio*) to disturbance by Eurasian otter

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## 11. Releases

- 1. releases of orphans in the place of finding
- 2. **Reintroduction in Northern Moravia**
  - 1994 – 2003
  - 33 individuals



## 12. Monitoring

According to management plan:

- 1. The whole country survey
- 2. Monitoring border areas
- 2. Estimation of densities in selected areas
- 3. Monitoring Natura 2000 sites
- 4. Collection of carcasses
  
- ANCPL or research projects



## 13. Habitat restoration

- Program ANCPL → OP (structural funds)
- Streams, rivers: few activities
- Fish-ponds: restorations, building new ones

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## 14. EIA assessment

- Not done by other experts
- No manual, guidelines

## 15. Fish stocking policies

### 1. Fish ponds:

- upper limit:
- defining intensive and extensive management
- In practice no permission for intensive management

### 2. Streams and rivers:

- lower limit:
- Obligation to stock according to Angling law



## 16. CONFLICT

- in the whole country
- fish ponds and also running waters
  
- Fish-ponds:
  - education
  - compensation (based on the Law)
  
- Running waters:
  - no mitigation measures

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## 17. THREATS

- 1. ilegal killing because of fish damages →
- 2. road casualties →
- 3. water quality →
- 4. destruction of the habitat →



## 17. Management plan

➤ **Current status: finished by authors, needs approval from the Ministry of Environment**

➤ **Main goals:**

1. Do not let the otter distribution to decrease under the situation in 2006
2. Do not let the local densities of otter in Natura 2000 sites to decrease

Záchranný program - program péče pro vydru říční  
(*Lutra lutra*) v České republice v letech 2009 – 2018

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AOPK ČR

