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Using different types of data for creating protected area conservational priorities

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IRSNC

Tasks and duties

Nature conservation public service

Public authorisation for:

- Nature Protection guidelines
- Database management
- Expert opinions, assessment
- Consistency of expert methods in Nature conservation
- Communication
- Expert control
- CITES – National scientific body

Group of Experts for Species and Habitats

Group of Communicators

Projects

Other....



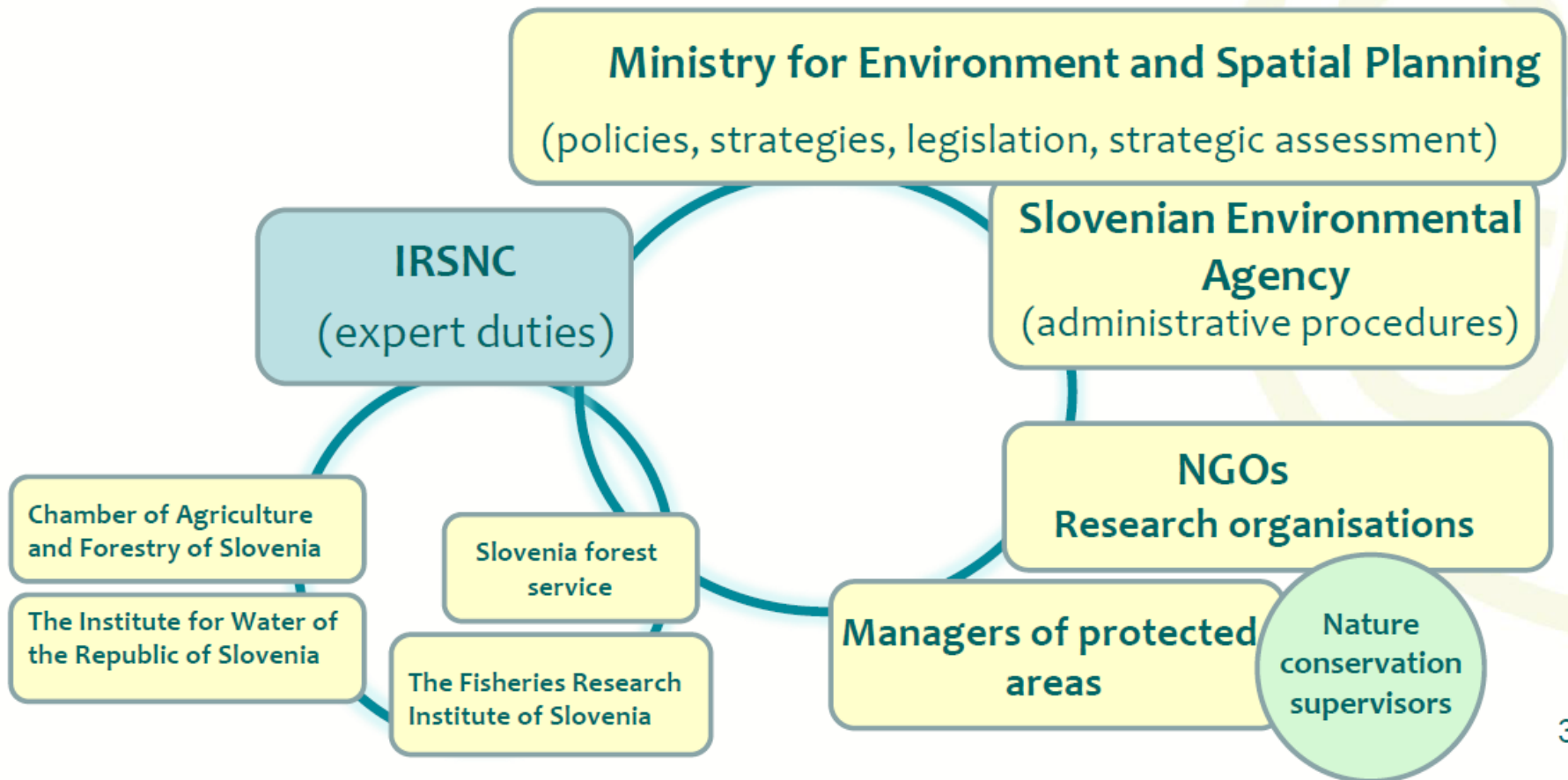


IRSNC

Organization Structure

National Assembly

Government of the Republic of Slovenia



An aerial photograph of the Ljubljana Marsh Nature Park. The landscape is a patchwork of green agricultural fields, some of which are divided into smaller plots. A winding river or stream flows through the center of the marsh, surrounded by dense, lush vegetation. In the background, rolling hills and mountains are visible under a clear sky. The overall scene is a vibrant, natural landscape.

Ljubljana Marsh was designated Nature Park in 2008.
IRSNC prepared expert proposal for the designation.

Ljubljana Marsh is one of the best explored areas in Slovenia, but data were not systematically gathered and stored at that time.

A variety of data sources was used for creating zonation and protection regime:

Habitat mapping





Birds of Ljubljansko barje - survey

Natura 2000 zonation

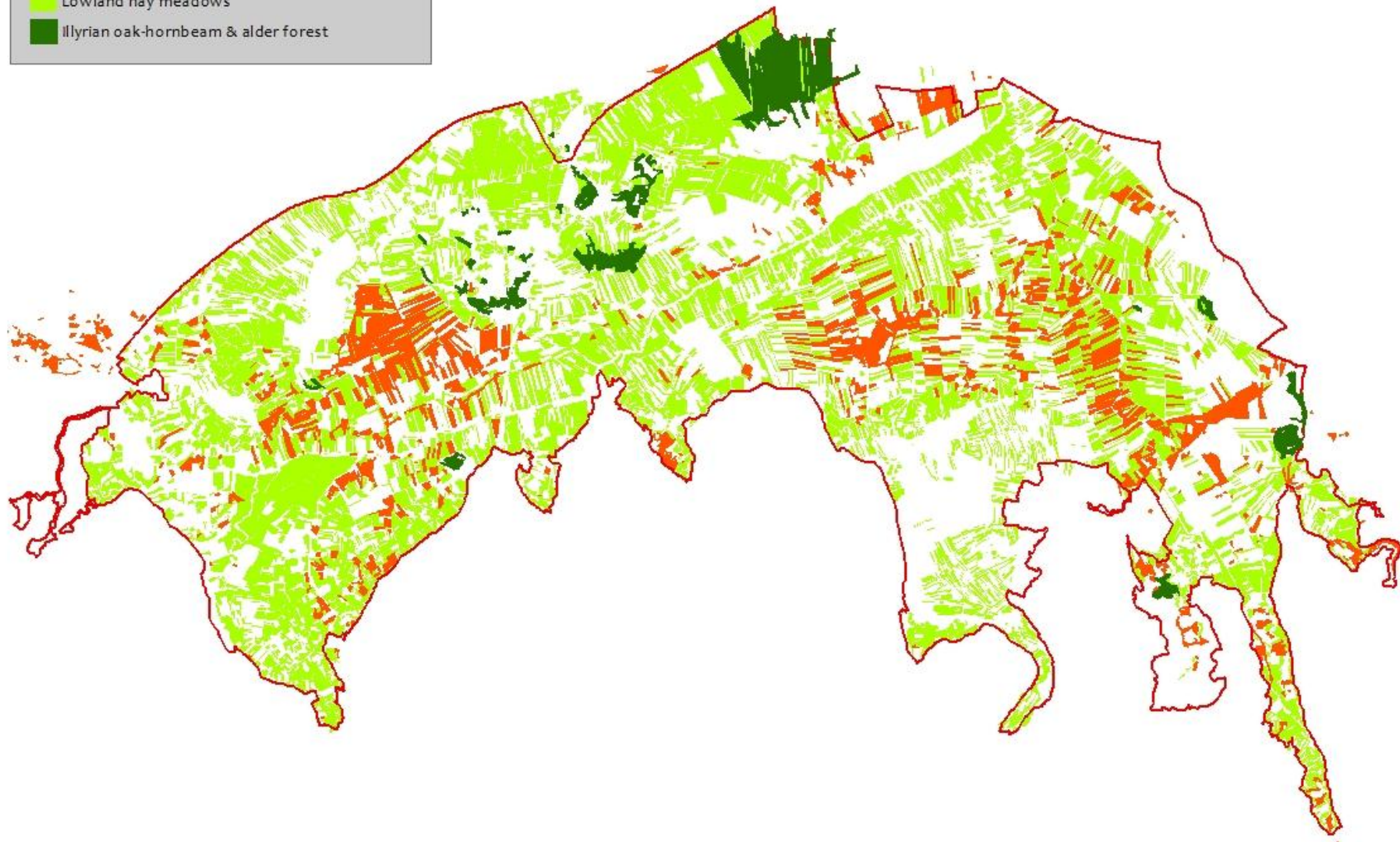
Scientific papers

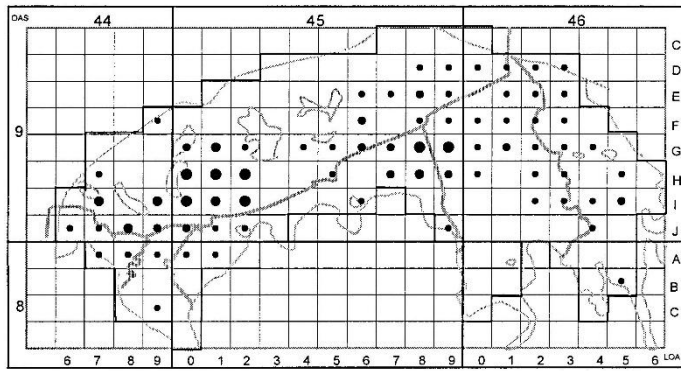
Graduation, Master, PhD Theses, EIA reports

HABITAT MAPPING (1999-2003)

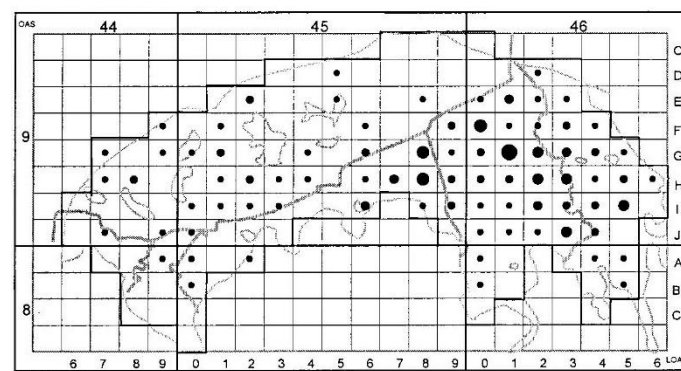
-  Ljubljana Marsh Nature Park
-  Oligotrophic humid grasslands, Fens, Sedgebeds
-  Lowland hay meadows
-  Illyrian oak-hornbeam & alder forest

Habitat mapping (CKFF, 1999-2003)



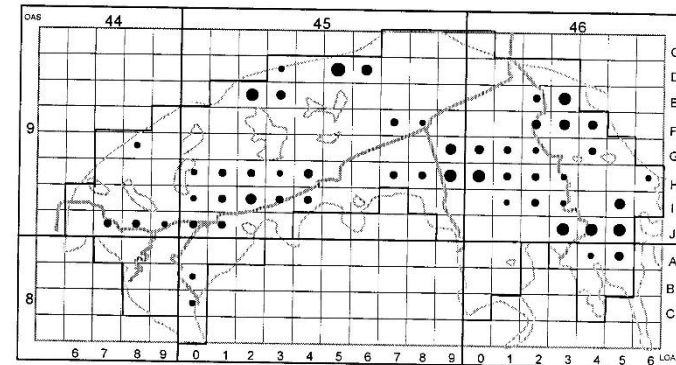
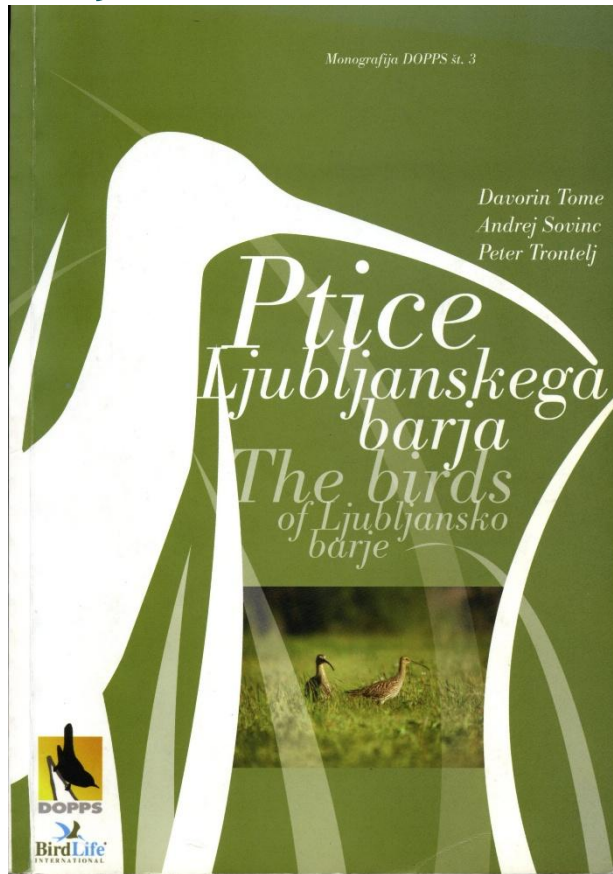


Gnezditvena razširjenost kosca na Ljubljanskem barju.
Breeding distribution of the Corncrake at Ljubljansko barje.

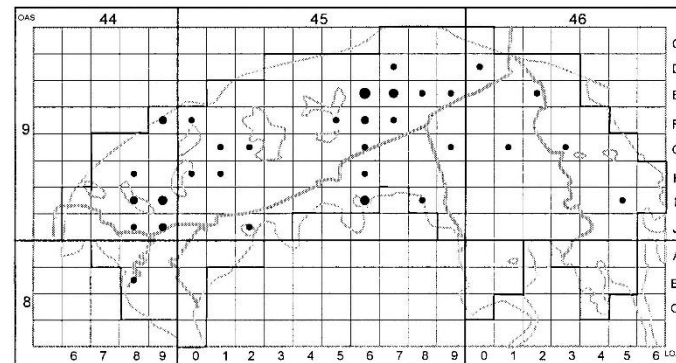


Gnezditvena razširjenost prepelice na Ljubljanskem barju.
Breeding distribution of the Common Quail at Ljubljansko barje.

Birds survey (BirdLife Slovenia, 1991-1996)

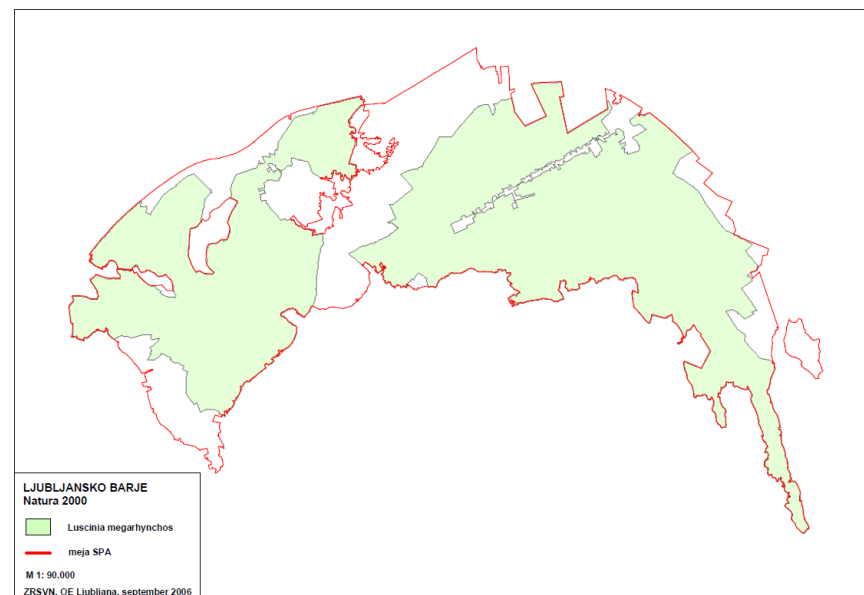
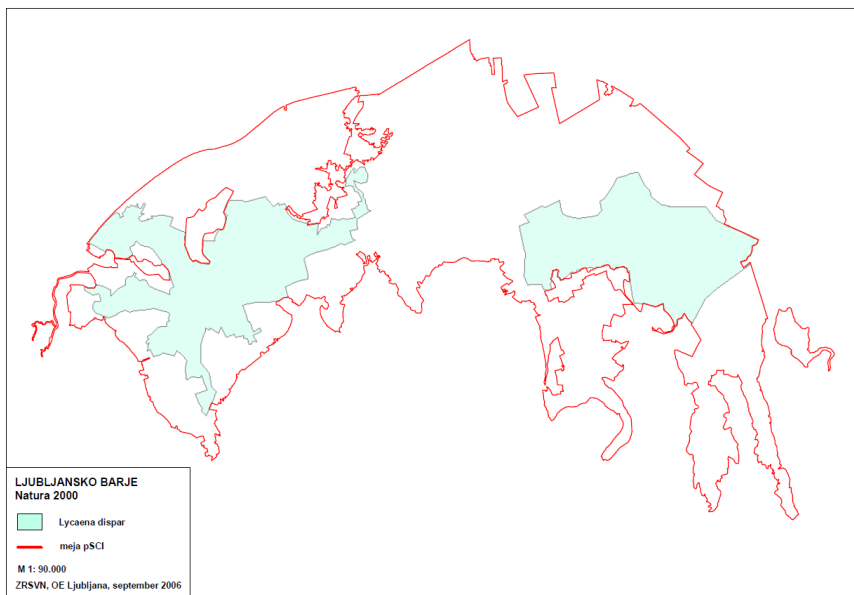
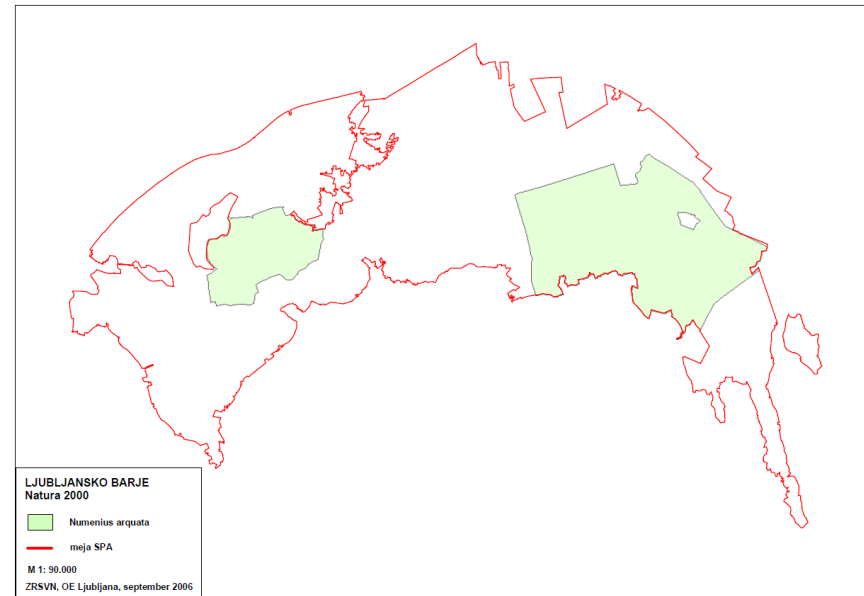
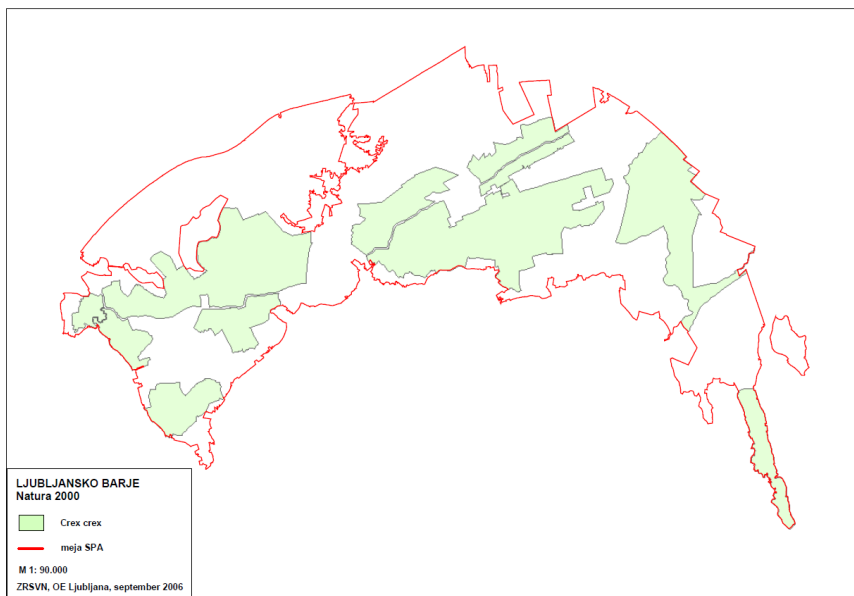


Gnezditvena razširjenost pribe na Ljubljanskem barju.
Breeding distribution of the Lapwing at Ljubljansko barje.

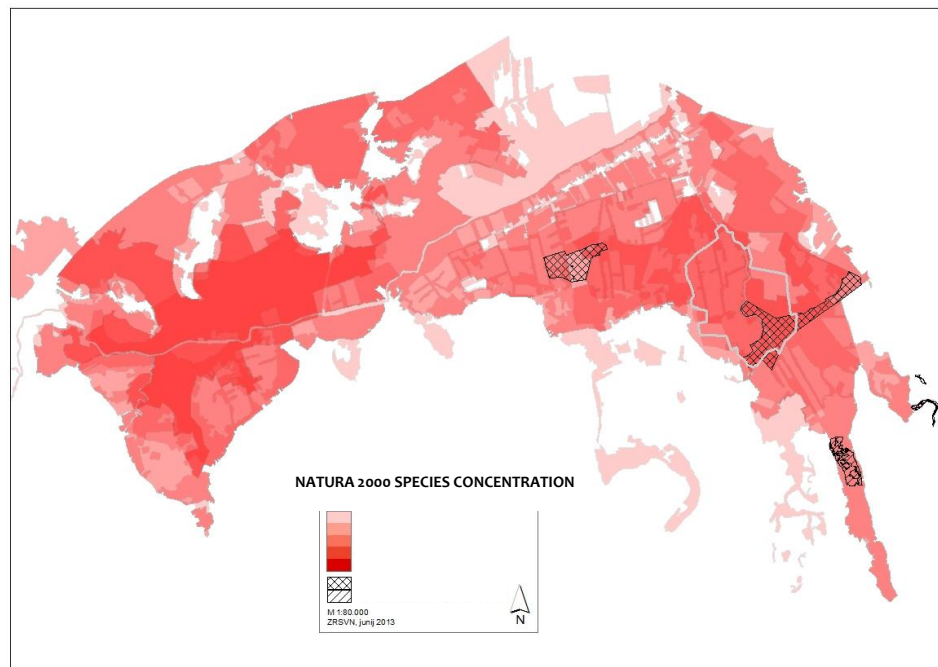


Gnezditvena razširjenost pisane penice na Ljubljanskem barju.
Breeding distribution of Barred Warbler on Ljubljansko barje.

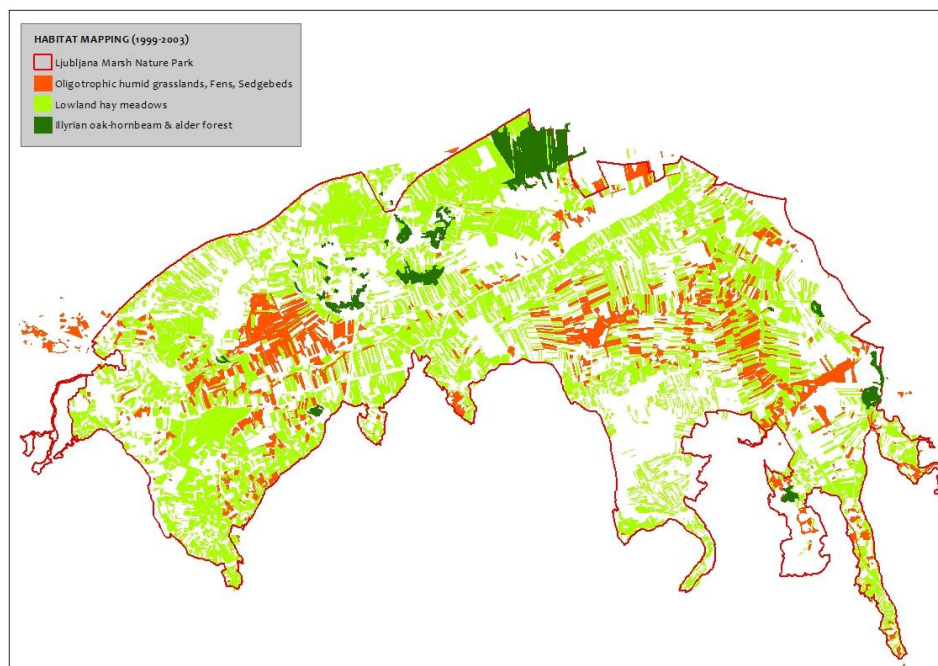
NATURA 2000 species zonation (IRSNC, 2006) – 45 zones altogether



Concentrations of Natura 2000 species were identified, based on Natura 2000 zonation.



Natura 2000 species concentrations coincided with humid grasslands and marshy habitats, which was no surprise.



This was the basis for protection zone shaping .

What about nationally important species? The Park is not just Natura 2000!

As there was no public access to systematically gathered data on nationally important species, published and other available data were collected.

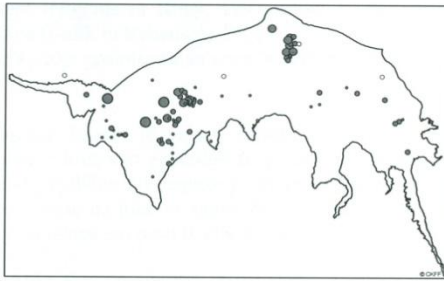
These data were used to ensure that all important locations were included in the core zone.



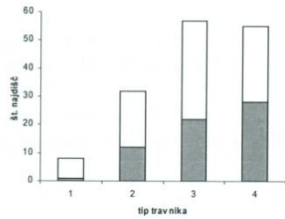
3.3.6 *Clossiana selene*



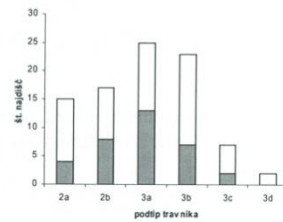
Slika 57: *C. selene* (foto: A. Škvarč)



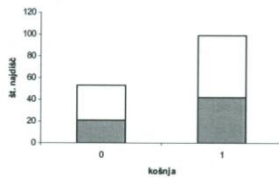
Slika 58: Razširjenost *C. selene* na Lj. barju (razlaga oznak na str. 35)



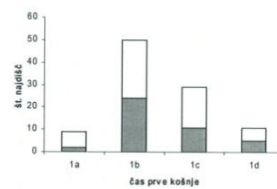
Slika 59: Pojavljanje *C. selene* glede na tip travnika



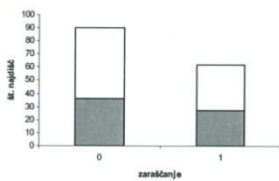
Slika 60: Pojavljanje *C. selene* glede na podtip travnika



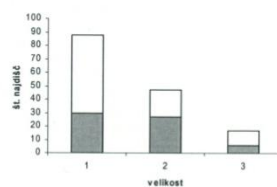
Slika 61: Pojavljanje *C. selene* glede na prisotnost košnje



Slika 62: Pojavljanje *C. selene* glede na čas prve košnje



Slika 63: Pojavljanje *C. selene* glede na zaraščanje



Slika 64: Pojavljanje *C. selene* glede na velikost travnika

(razlaga oznak kategorij na str. 24)

Scientific papers

Graduation, Master's, PhD Theses

Environmental Impact Assessment Reports

Example: EIA for the VP 6/2 area (Municipality of Ljubljana) concerning flora, vegetation, fauna and habitats (CKFF, 1999)

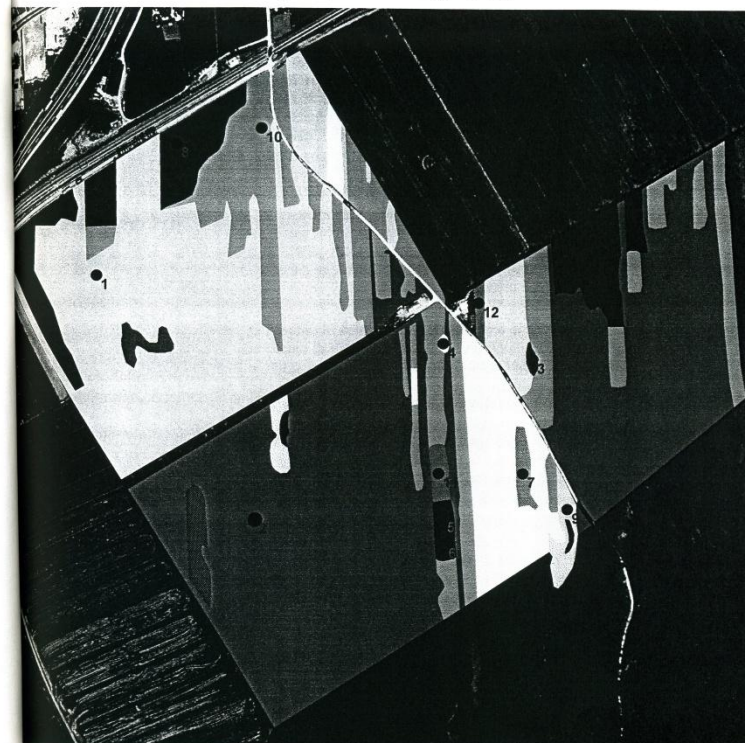
Poročilo o presoji vplivov na okolje za območje V6/2 na Ljubljanskem barju s stališča flore in vegetacije, favne ter habitatnih tipov

CENTER ZA
KARTOGRAFIJO
FAVNE IN FLORE

Priloga 1



Vegetacijska karta - Log - VP6/2



● popisna mesta

Bromo-Cynosuretum cristati
 Caricetum gracilis
 Carex elongate-Ametetum glutinosae
 Dactylis glomerata
 Helictetum palustris
 Juncus effusus-Agrostis stolonifera
 Juncus effusus-Agrostis stolonifera-Deschampsia caespitosa
 Molinia caerulea, Hypochaeris radicata združba
 Pastinaco-Arrhenatheretum
 Pseudostellario-Quercetum
 Ranunculo-Alopecuretum pratensis
 Salino-Molinietum caeruleae

merilo: 1:5000

0 50 100 150 200 250 metrov

Combining data... with caution:

DATA APPLICABILITY

general

local

DATA SET	COVERING	DATA ACCURACY	DATA FORMAT			
			GIS	printed map: grid	printed map: polygon, point	printed text, description
habitat mapping	whole area	high	yes			
bird species distribution	whole area	high	no	yes		
Natura 2000 species distribution	whole area	mixed	yes			
scientific papers, expert groundworks	parts	high	no	no	yes	
theses, EIA reports	specific locations	high	no	no	party	yes





OUTPUT ACCURACY

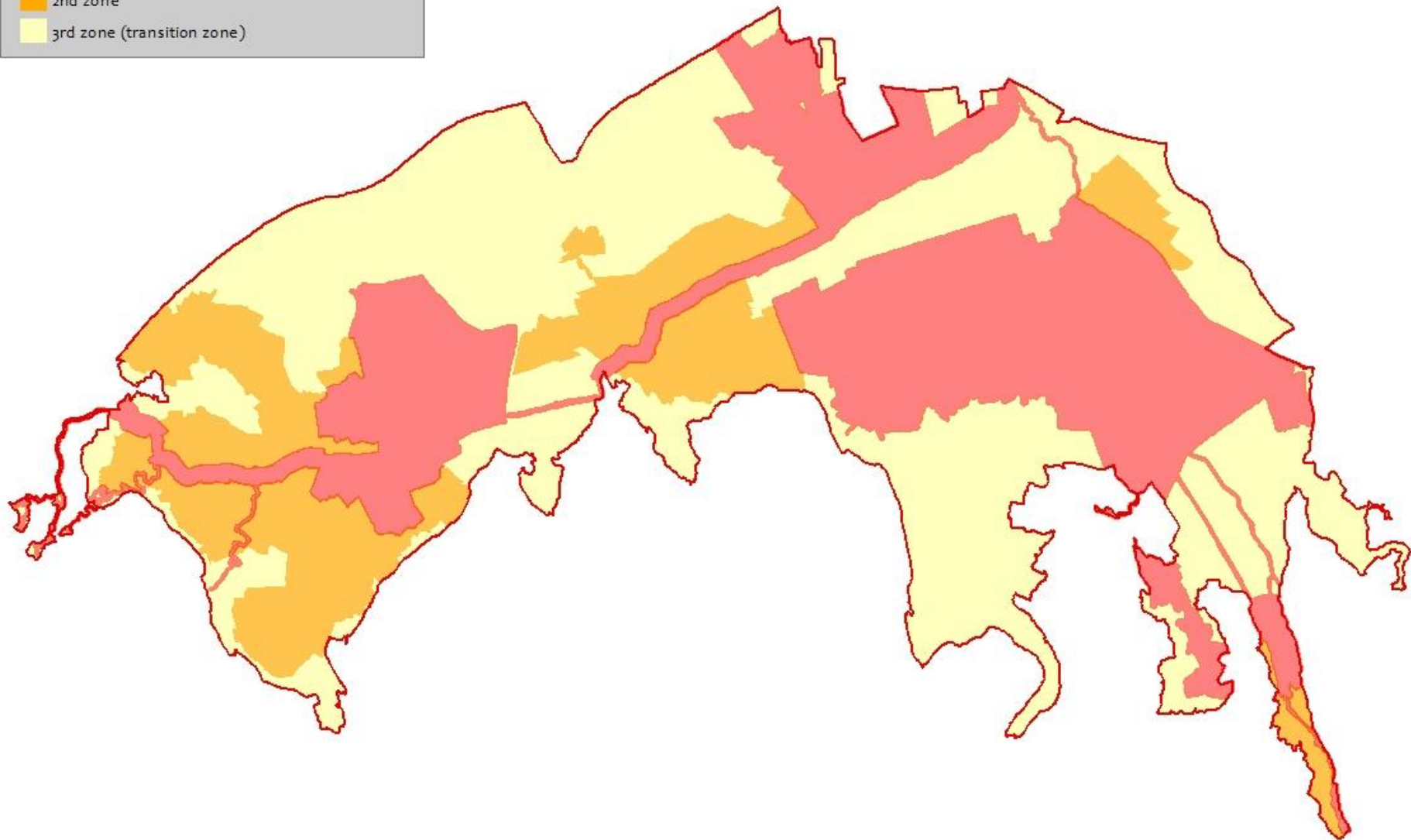
high

low

RESULTS: protection zones

PROTECTION ZONES in Ljubljana Marsh Nature Park

-  Ljubljana Marsh Nature Park
-  1st zone (core zone)
-  2nd zone
-  3rd zone (transition zone)



RESULTS: protection regime

Endangered species with limited ranges

⇒ protection in 1st and 2nd zone with limited agricultural use

Widespread species

⇒ protection through specific structures:

waterbodies management, hedgerows maintenance etc.
covered by general protection regime

These data and zonation are

😊 sufficient for nature protection policy and general park management

😞 not sufficient for some species-targeted actions

⇒ new data needed



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Thank you for your attention.



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