

Atlas projects in the Czech Republic

Karel ŠŤASTNÝ



Czech University of Life Sciences Prague

**Faculty of Environmental
Sciences**

stastny@fzp.czu.cz

Kamýcká 125
165 21 Praha 6 – Suchbátov
Czech Republic

Three Atlas projects breeding birds

Czechoslovakia

1973-1977	10 x 10 km	846 quadrates 913 co-workers	189 species
------------------	-------------------	---	--------------------

Czech Republic

1985-1989	12 x 11,1 km 10'long. x 6'lat.	628 quadrates 728 co-workers	199 species
------------------	---	---	--------------------

2001-2003	12 x 11,1 km	628 quadrates 532 co-workers	199 species
------------------	---------------------	---	--------------------

Other atlases

Atlas of wintering birds

1982/83-1984/85 12 x 11.1 km 624 quadrates 183 species
700 co-workers

Regional atlases

Southern Bohemia 1985-1989 12 x 11.1 km 94 quadrates 171 species
Southern Moravia 1981-1992 12 x 11.1 km 140 quadrates 195 species
Atlas of breeding birds in the Krkonoše Mts. 1991-1994 153 species
2.9 x 2.8 km 115 quadrates 19 co-workers
The birds of Orlické Mountains 1996-1999 122 species
2.9 x 2.8 km 56 quadrates 20 co-workers

Atlases of cities

Atlas of breeding birds in Prague 1985-1989 127 species
1.5 x 1.25 km 277 quadrates 153 co-workers
Atlas of breeding and wintering birds in Pardubice 2003-2006
1.5 x 1.4 km 55 quadrates 16 co-workers 110 breeding species
90 wintering species

Other information

Breeding in 3 categories: possible
probable
confirmed

Quantity expressed in intervals of geometric progression:
1-5; 6-25; 26-125; 126-625; 626-3125; >3125

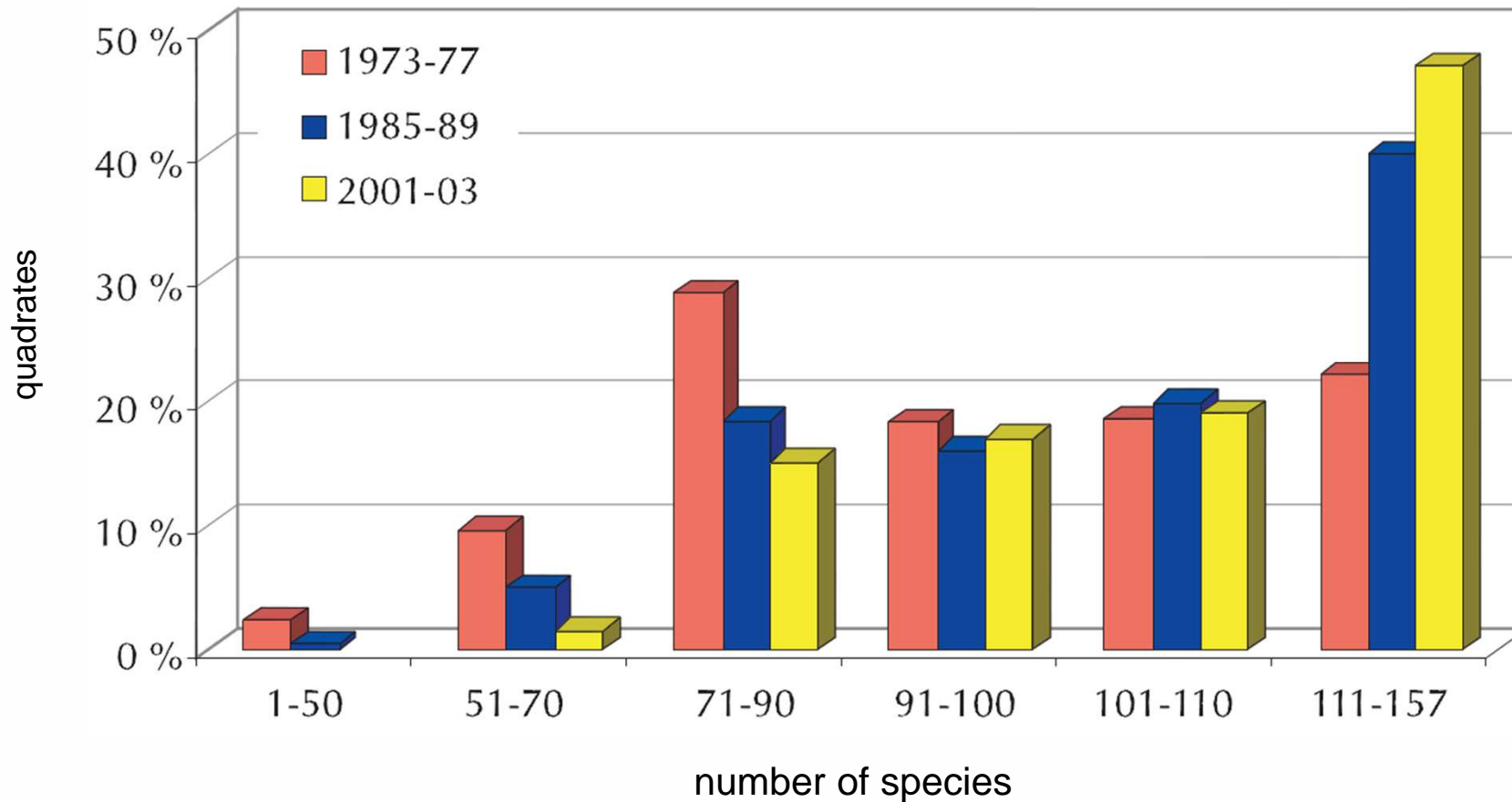
Quality of work

2001-2003 > 70 species recorded in 98.4 % quadrates
 >100 species recorded in 66.0 % quadrates

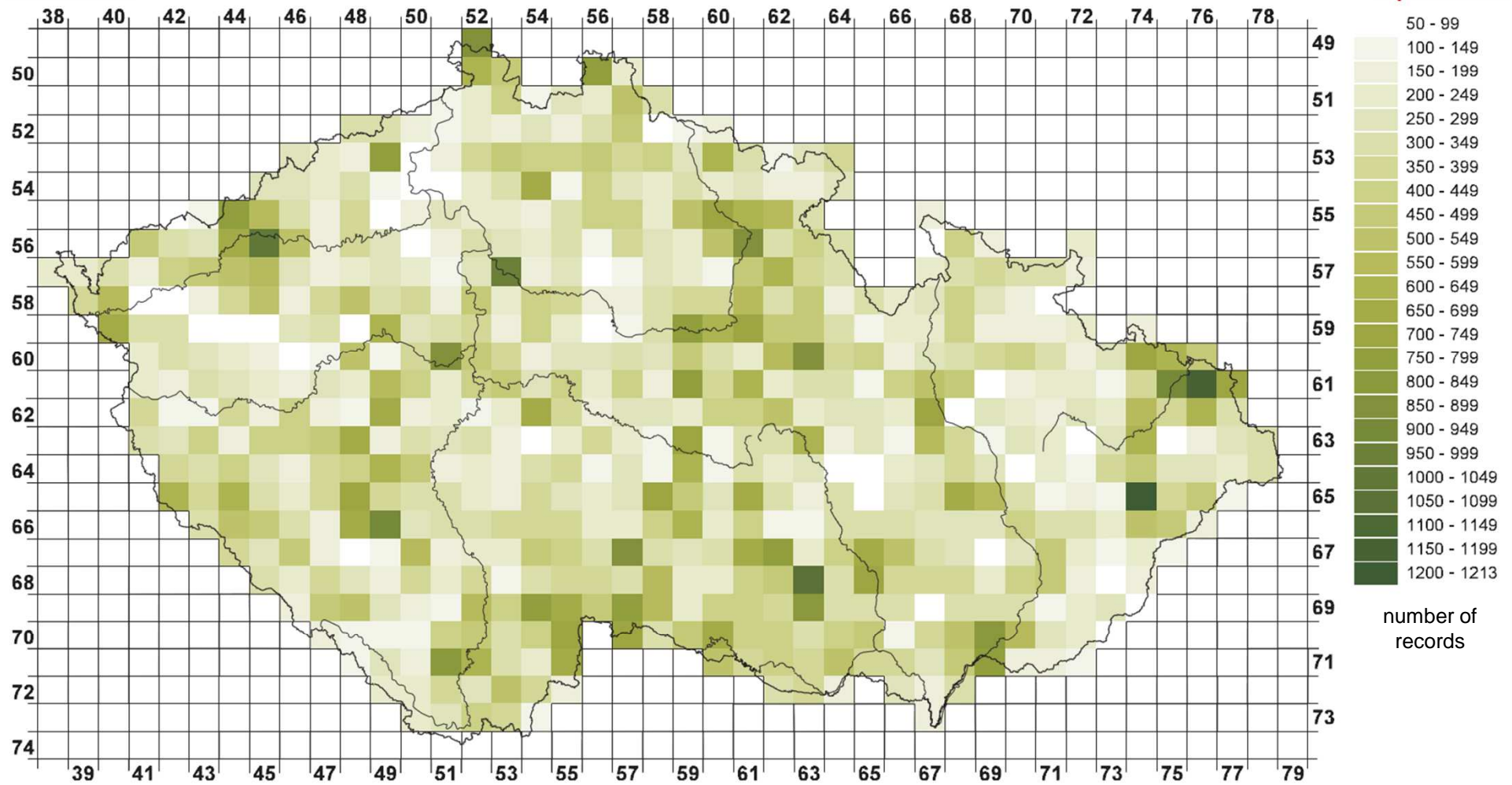
Mean number of species/quadrat

1973-1977	94 (min. 12, max. 145 species)
1985-1989	104 (min. 40, max. 154 species)
2001-2003	109 (min. 51, max. 157 species)

Number of quadrates (in %) sorted by the number of recorded species in categories possible, probable, and confirmed breeding – periods of three mappings compared.

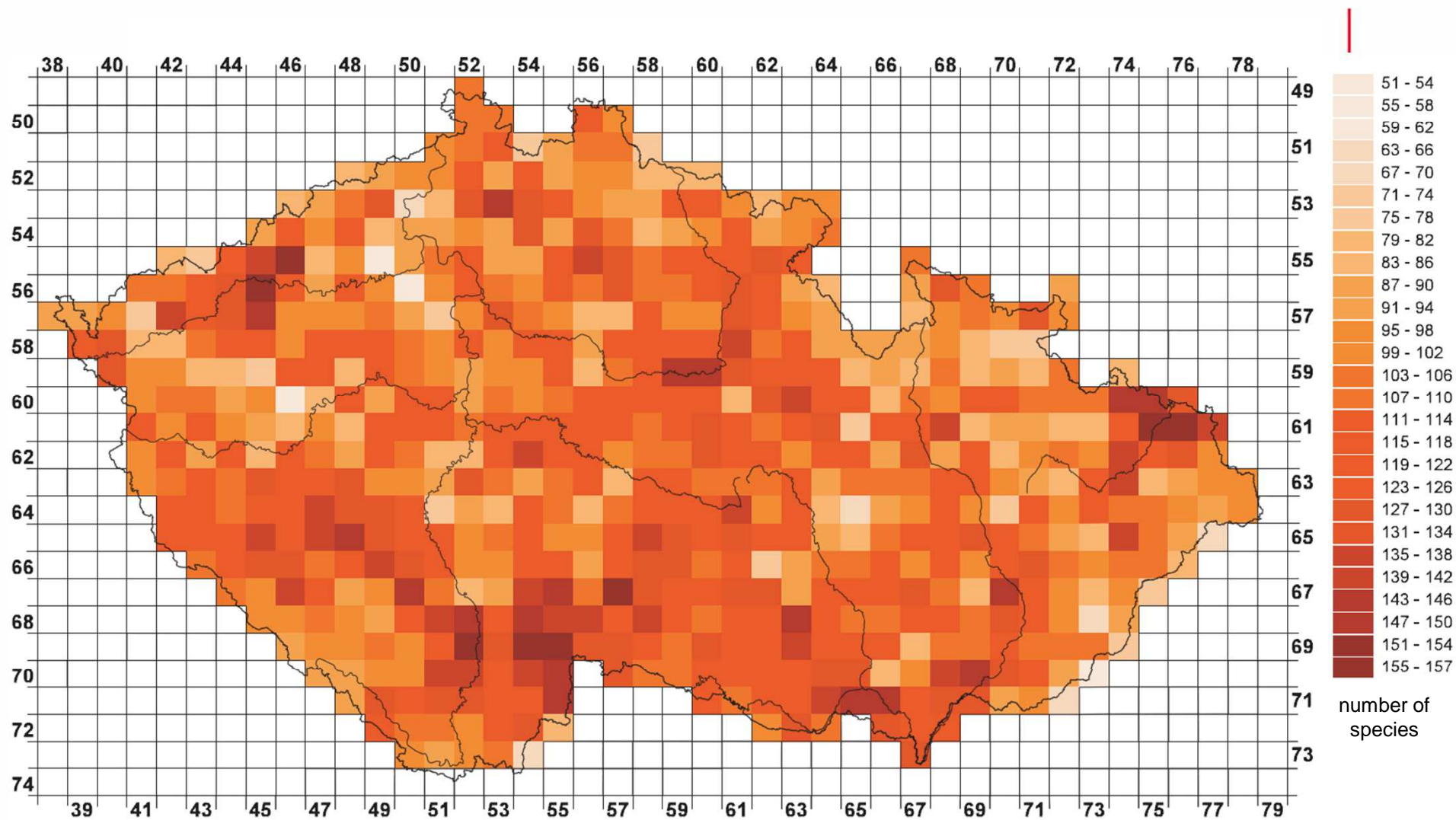


The total numbers of records in individual quadrates in 2001–2003

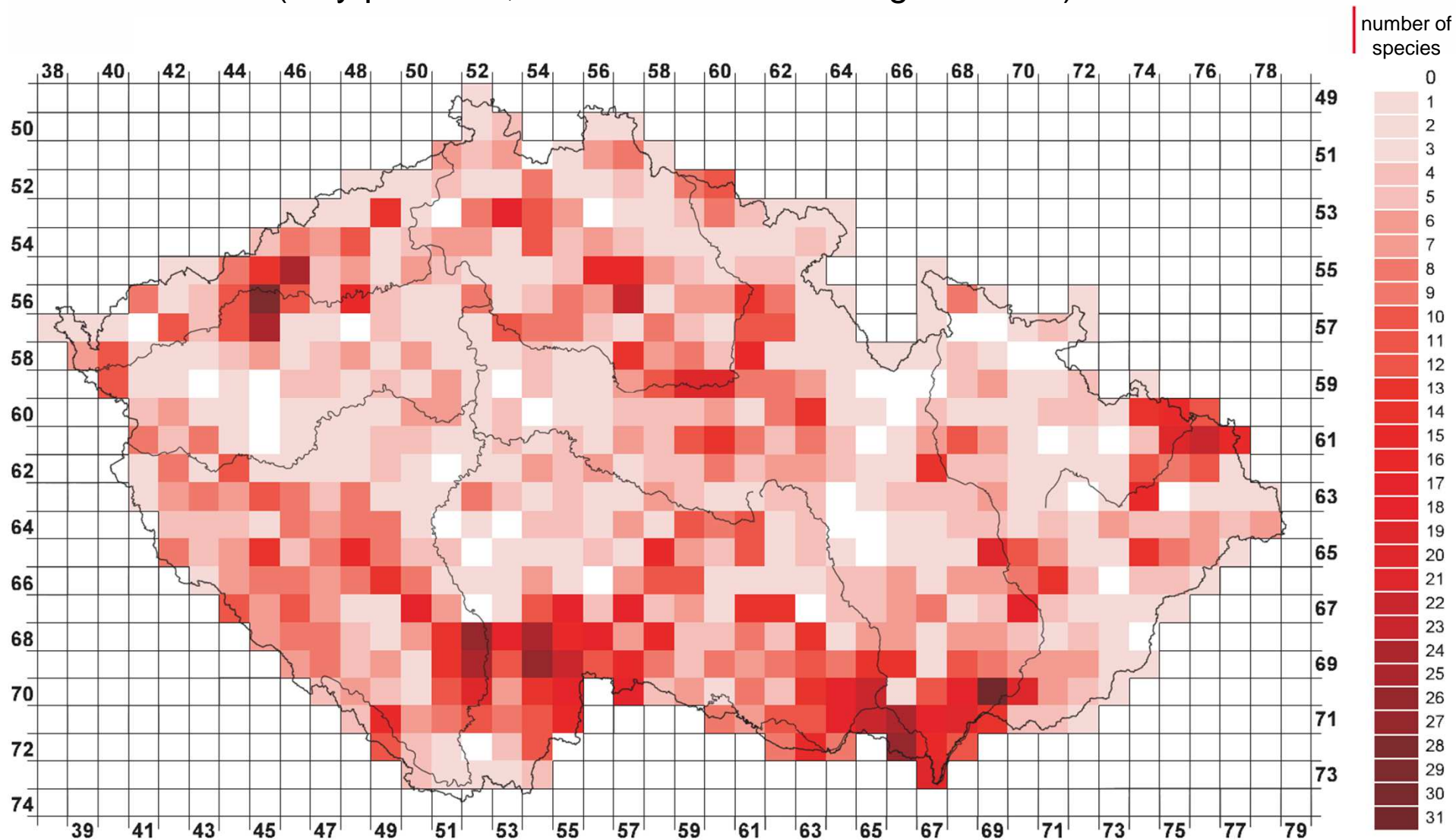


The total number of breeding species recorded in individual quadrates in 2001–2003

(possible, probable, and confirmed breeding recorded)



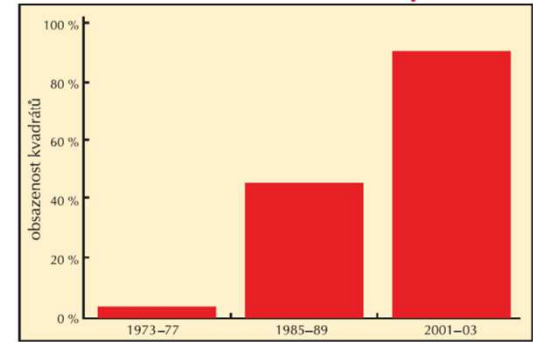
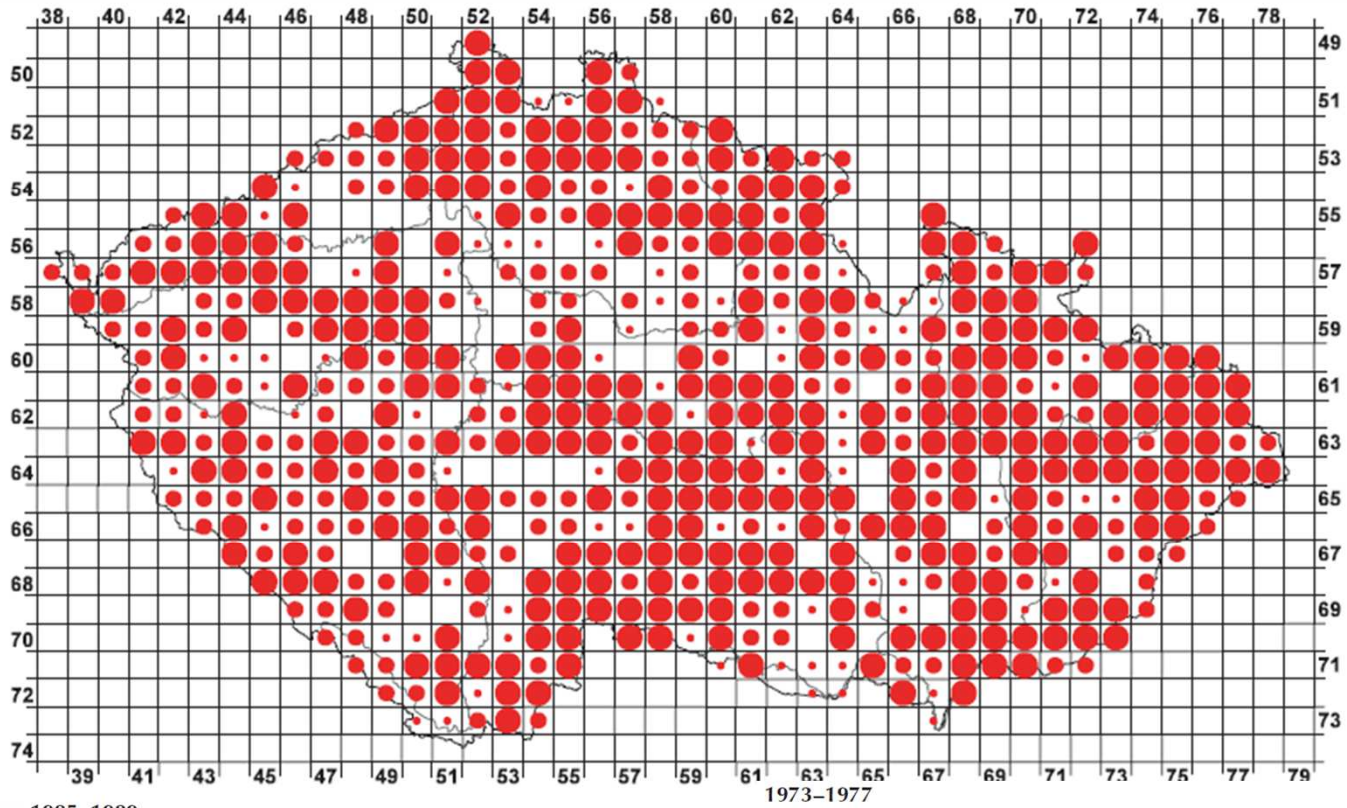
Numbers of breeding species classified as critically endangered and endangered on the Red List of the Czech Republic (only probable, and confirmed breeding recorded)



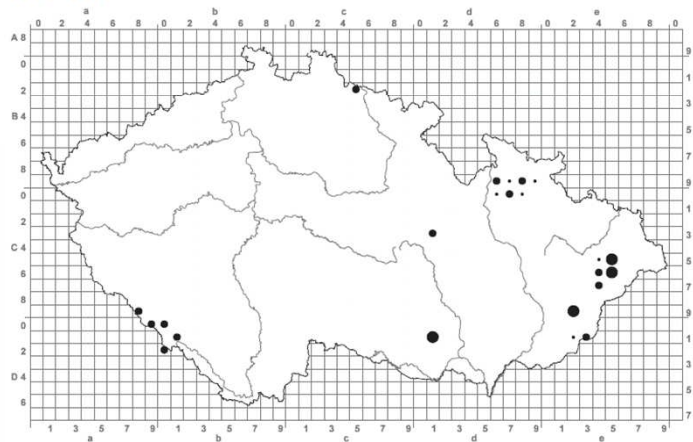
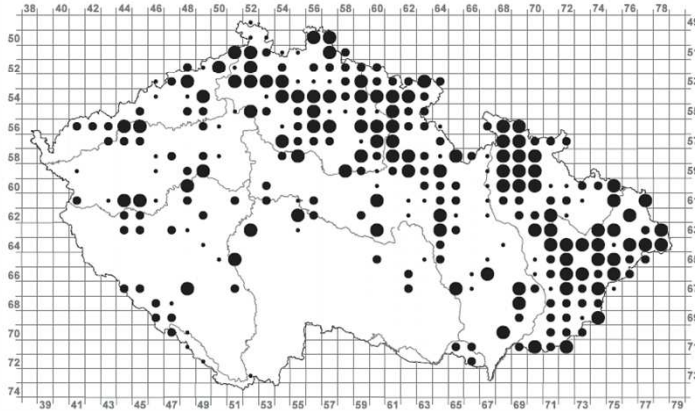
The top 20 species with the highest population increase between the last two mapping actions in 1985–1989 and in 2001–2003 (in %). Included are only species with more than 50 breeding pairs in 1985–1989.

SPECIES		1985 – 89 to 2001 – 03
Syrian Woodpecker	<i>Dendrocopos syriacus</i>	1198
Corncrake	<i>Crex crex</i>	488
Corn Bunting	<i>Miliaria calandra</i>	471
Bluethroat	<i>Luscinia s. cyanecula</i>	337
Scarlet Rosefinch	<i>Carpodacus erythrinus</i>	308
Middle Spotted Woodpecker	<i>Dendrocopos medius</i>	250
Common Raven	<i>Corvus corax</i>	210
Tengmalm's Owl	<i>Aegolius funereus</i>	161
Red Kite	<i>Milvus milvus</i>	117
Barred Warbler	<i>Sylvia nisoria</i>	100
Grey Heron	<i>Ardea cinerea</i>	91
Tawny Owl	<i>Strix aluco</i>	83
Common Tern	<i>Sterna hirundo</i>	80
Quail	<i>Coturnix coturnix</i>	67
Red-breasted Flycatcher	<i>Ficedula parva</i>	61
Water Rail	<i>Rallus aquaticus</i>	50
Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	50
Winter Wren	<i>Troglodytes troglodytes</i>	50
Whinchat	<i>Saxicola rubetra</i>	50
Marsh Harrier	<i>Circus aeruginosus</i>	48

Common Raven (*Corvus corax*)



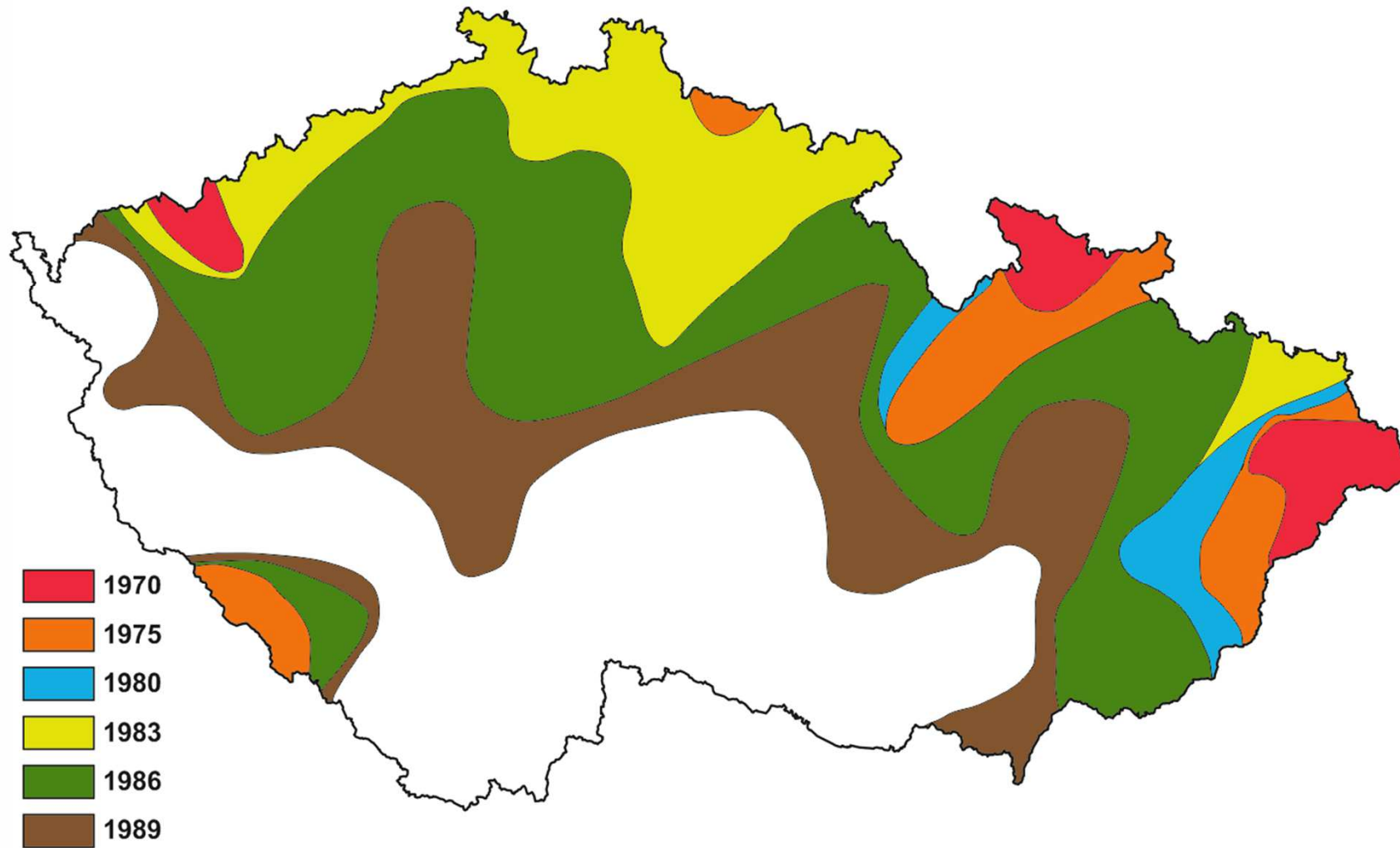
1985-1989



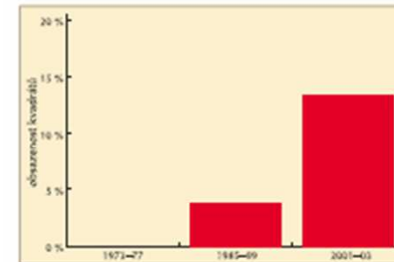
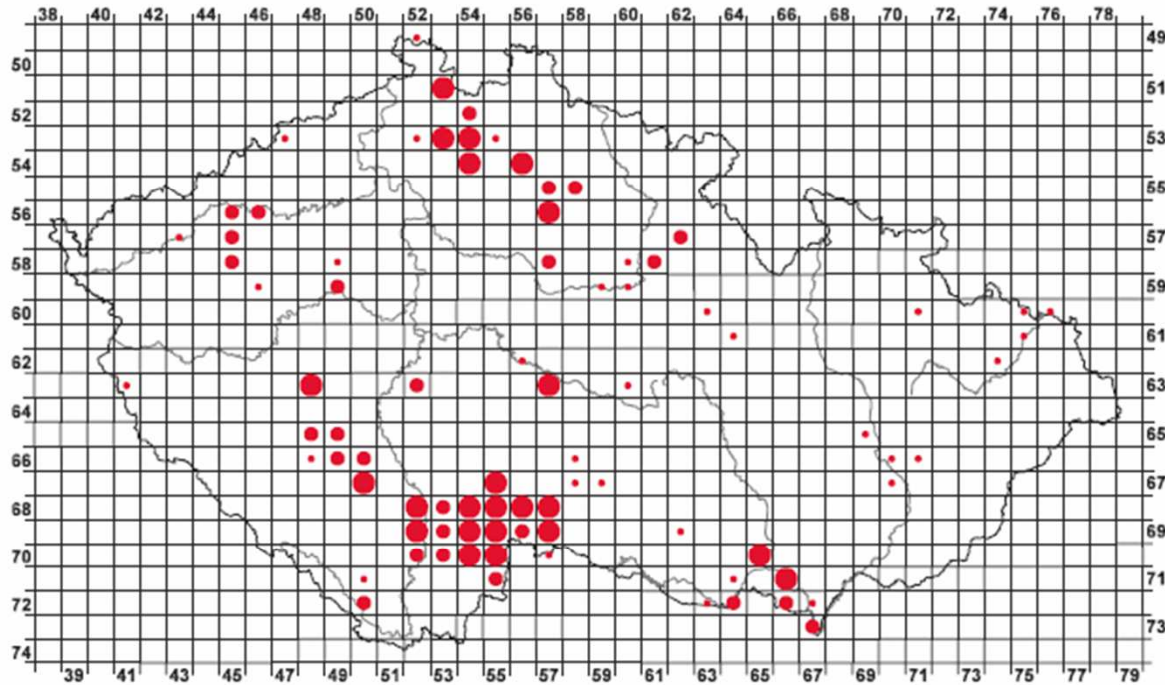
Common Raven
(*Corvus corax*)



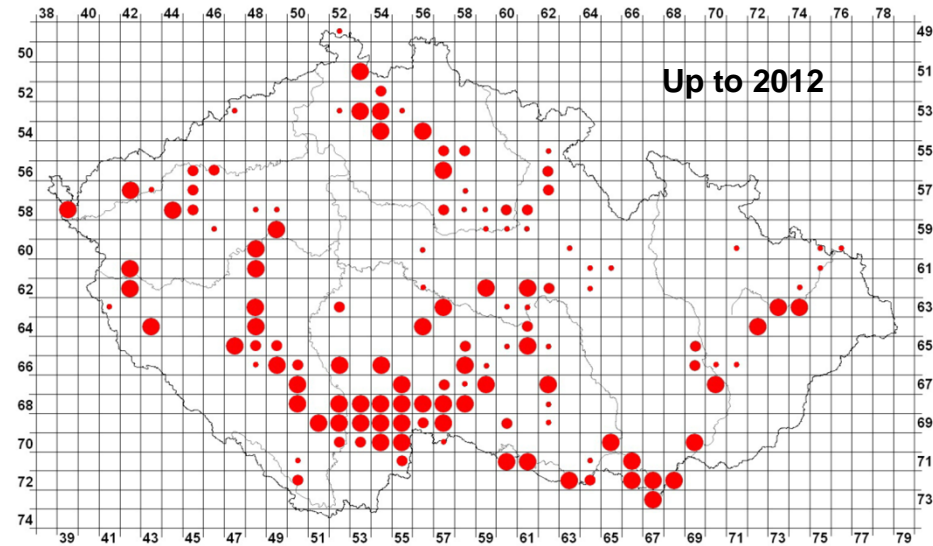
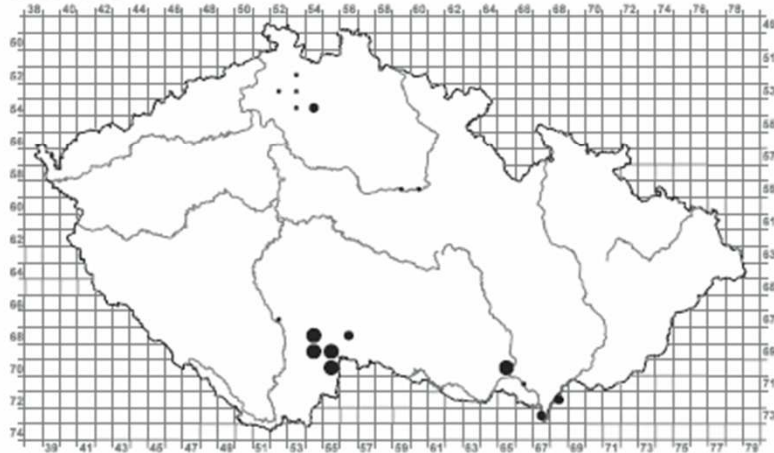
Spread of Common Raven in the Czech Republic



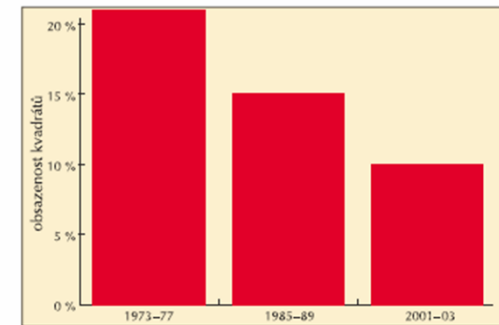
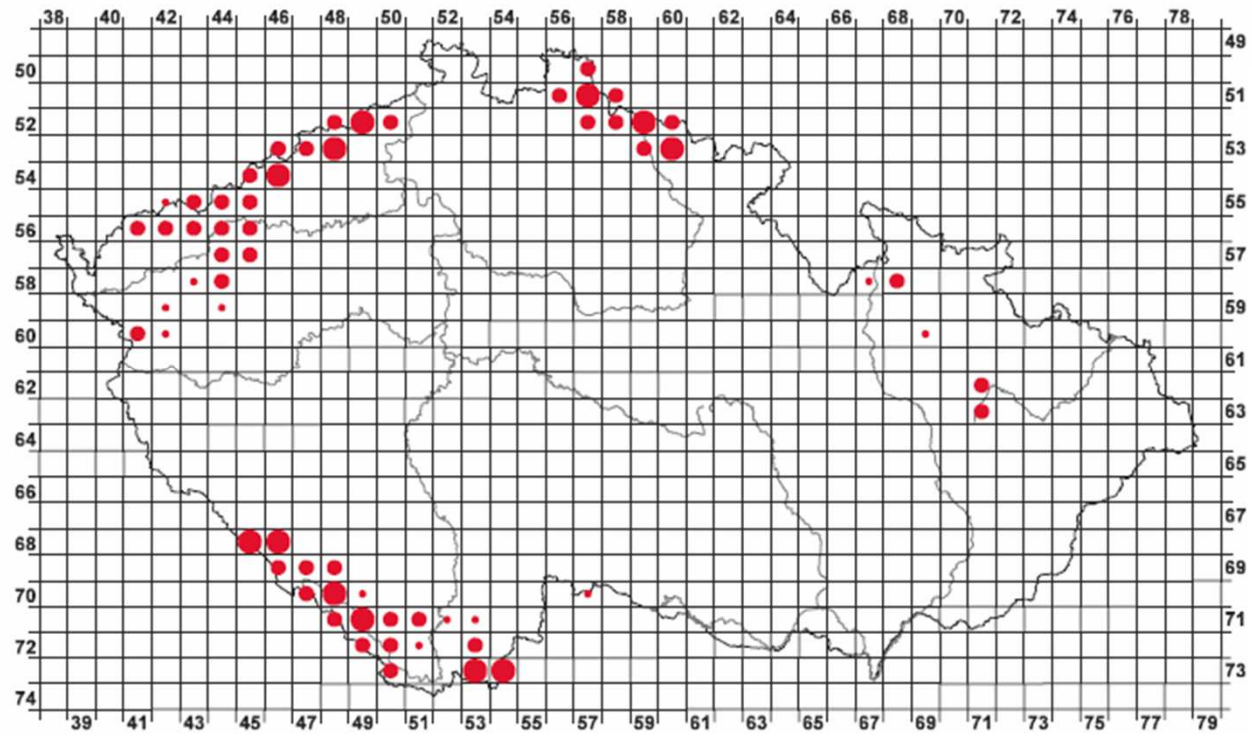
White-tailed Eagle (*Haliaeetus albicilla*)



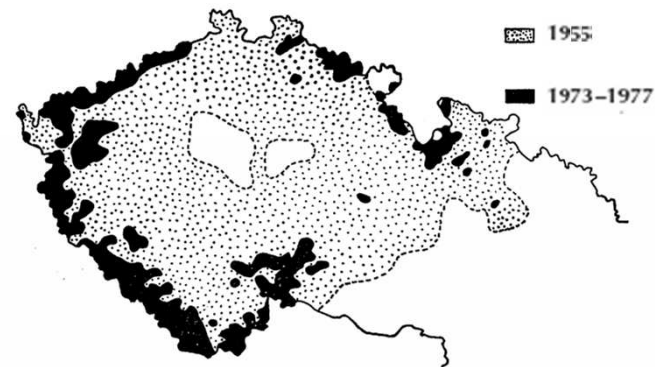
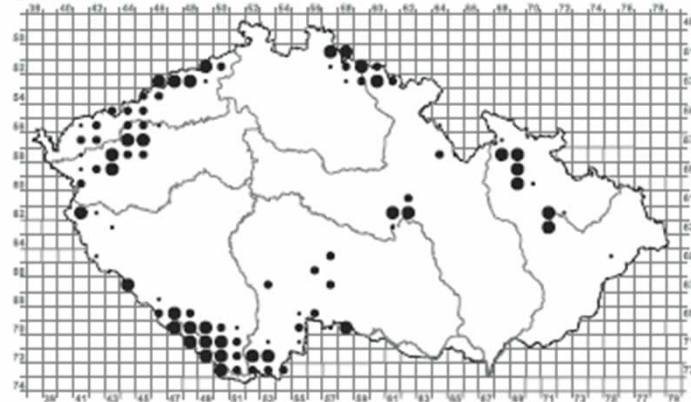
1985-1989



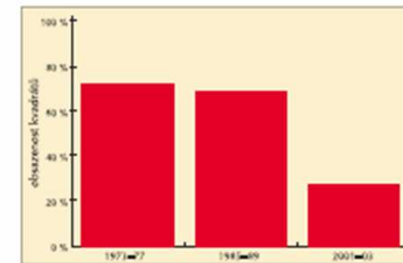
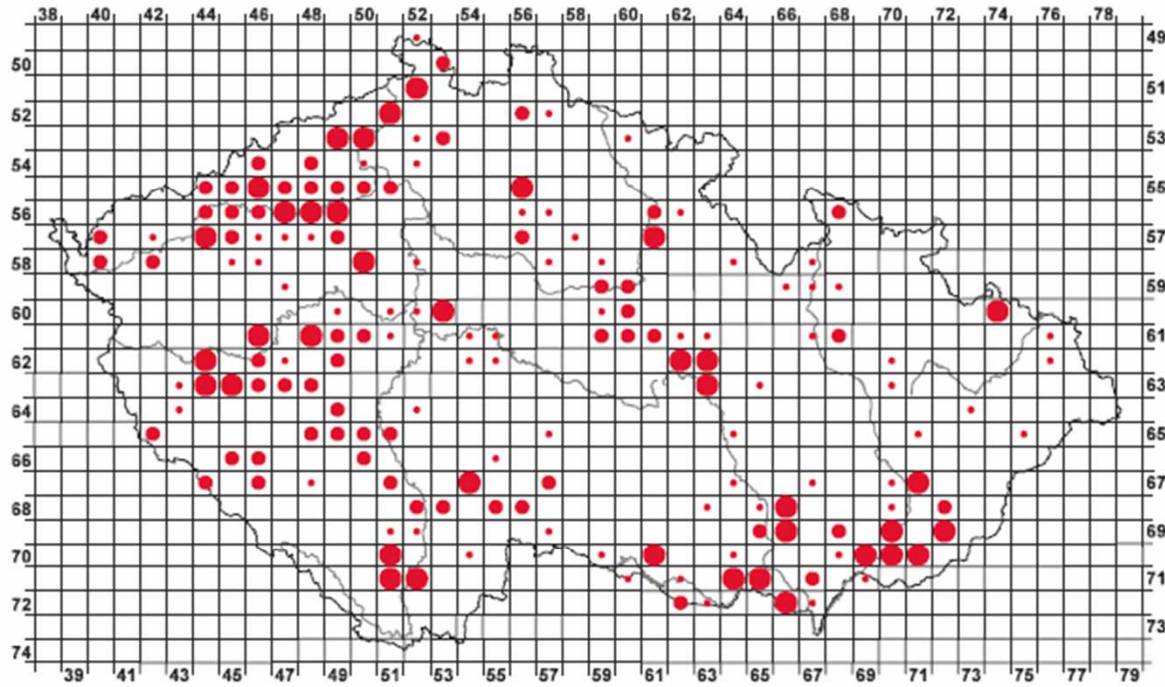
Black Grouse (*Tetrao tetrix*)



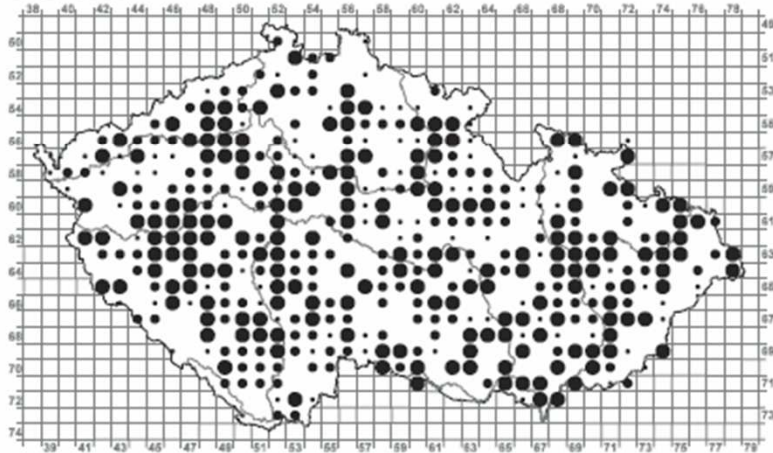
1985-1989



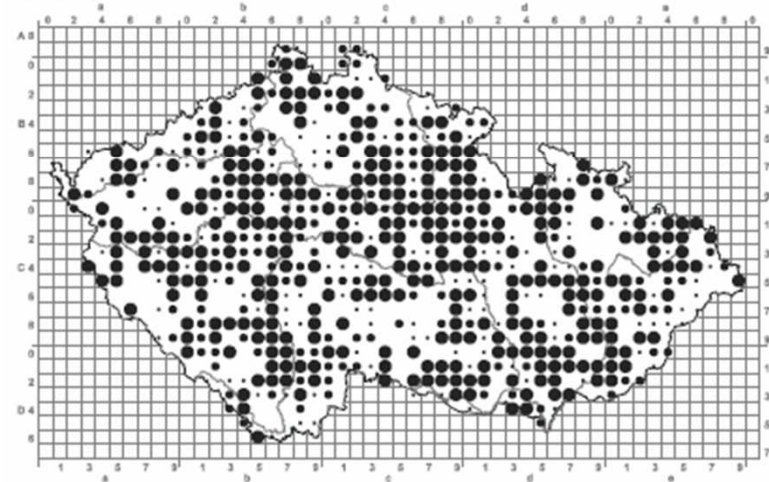
Little Owl (*Athene noctua*)



1985-1989

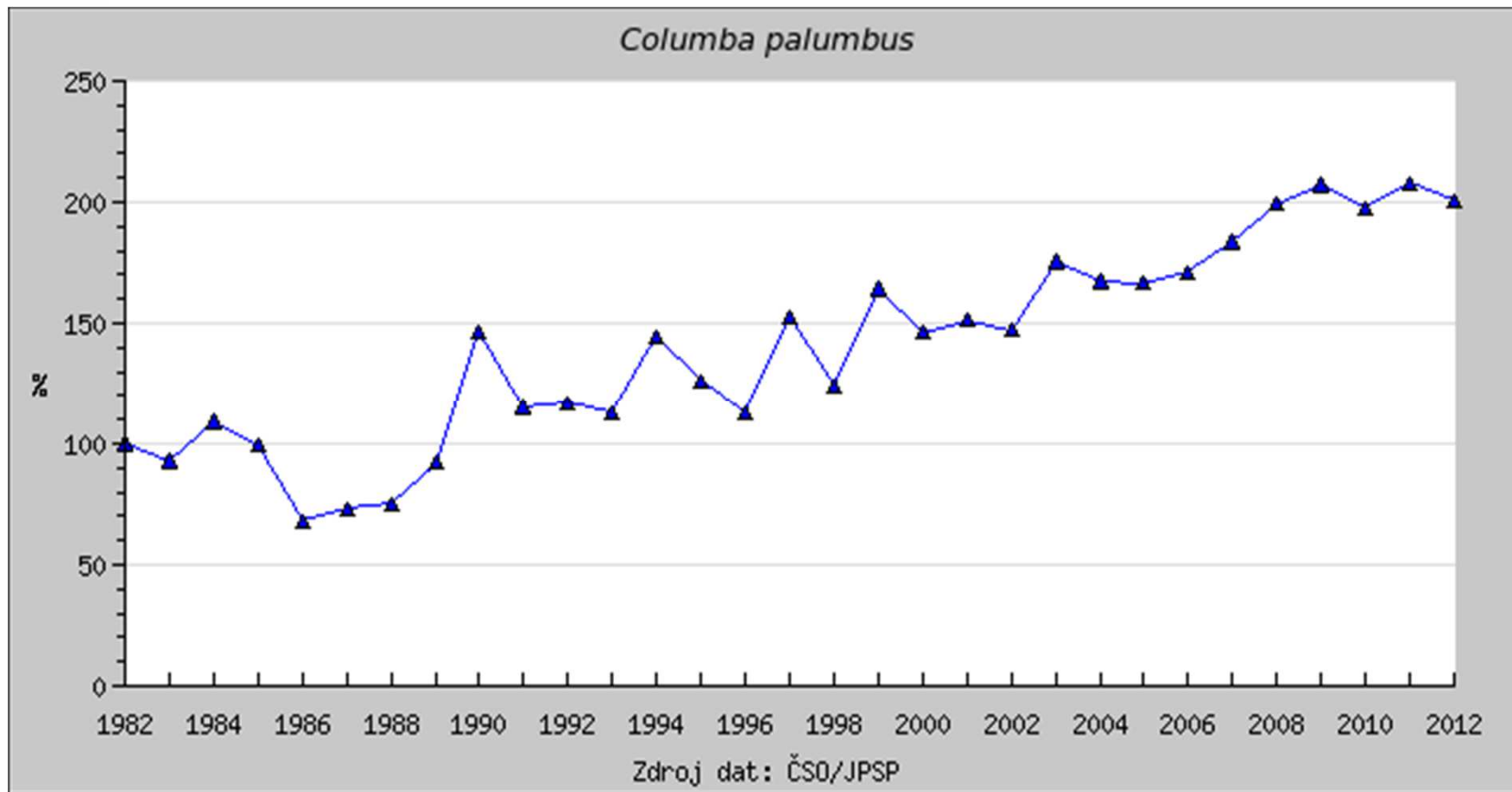


1973-1977

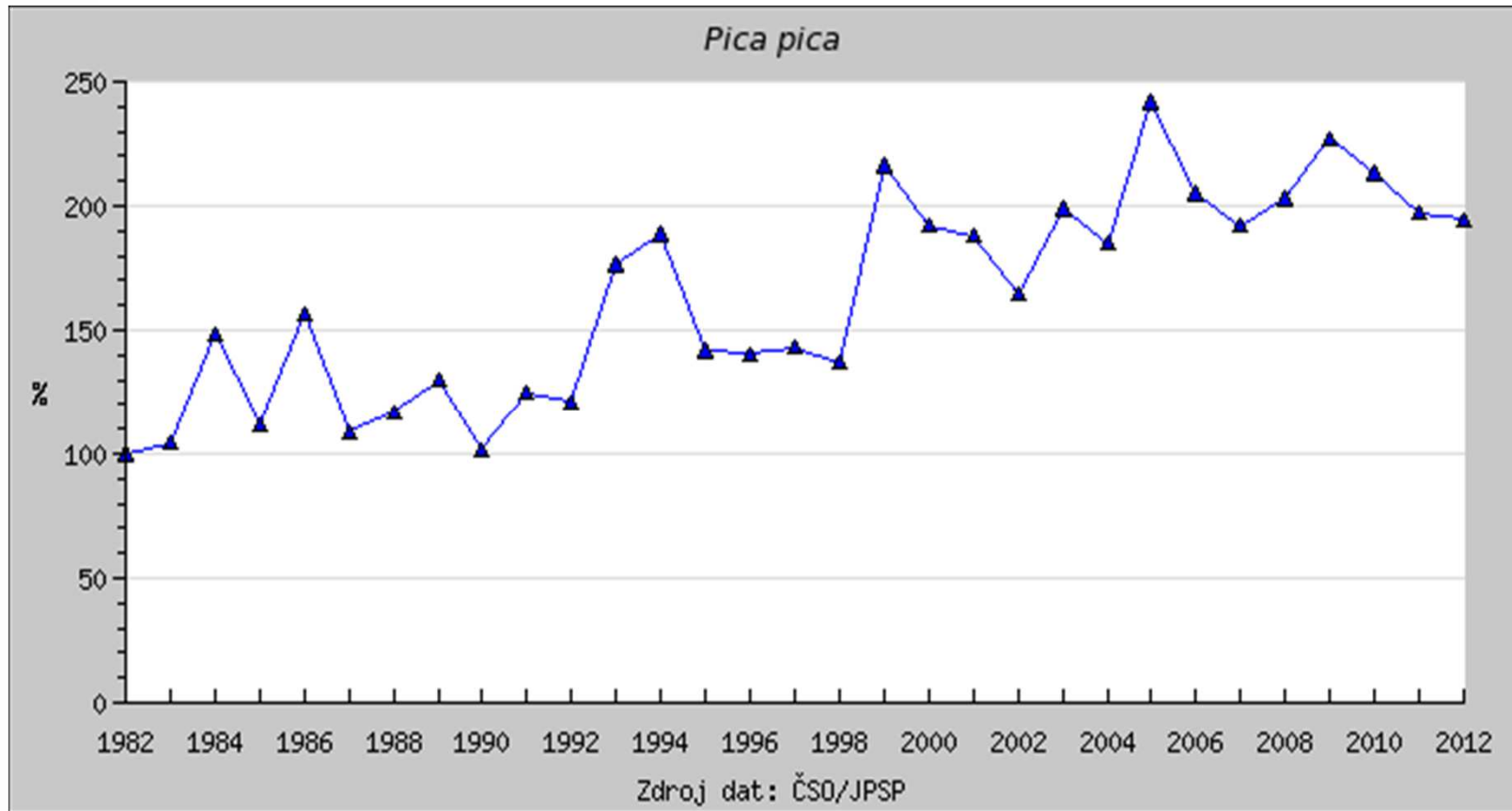


Woodpigeon

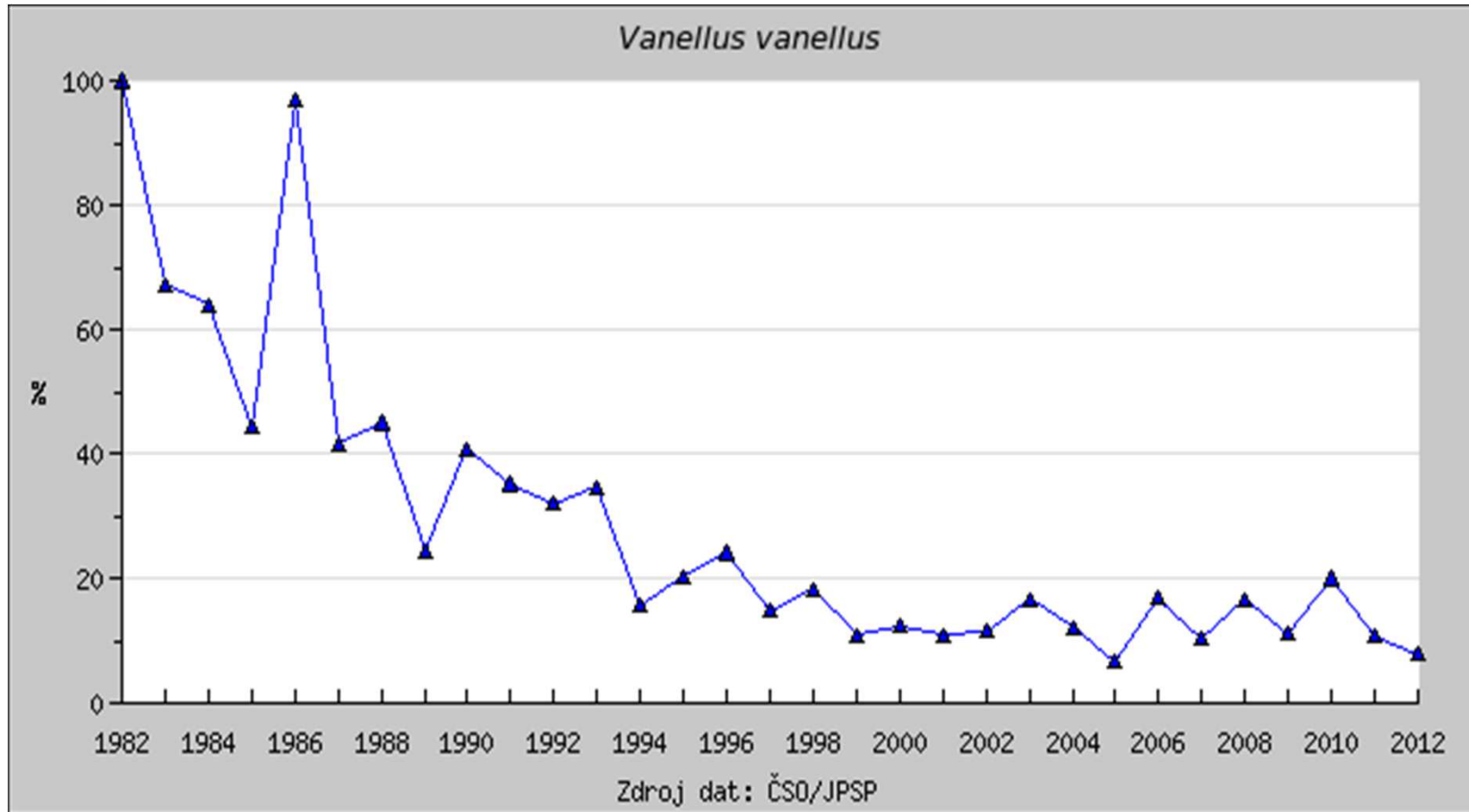
(*Columba palumbus*)



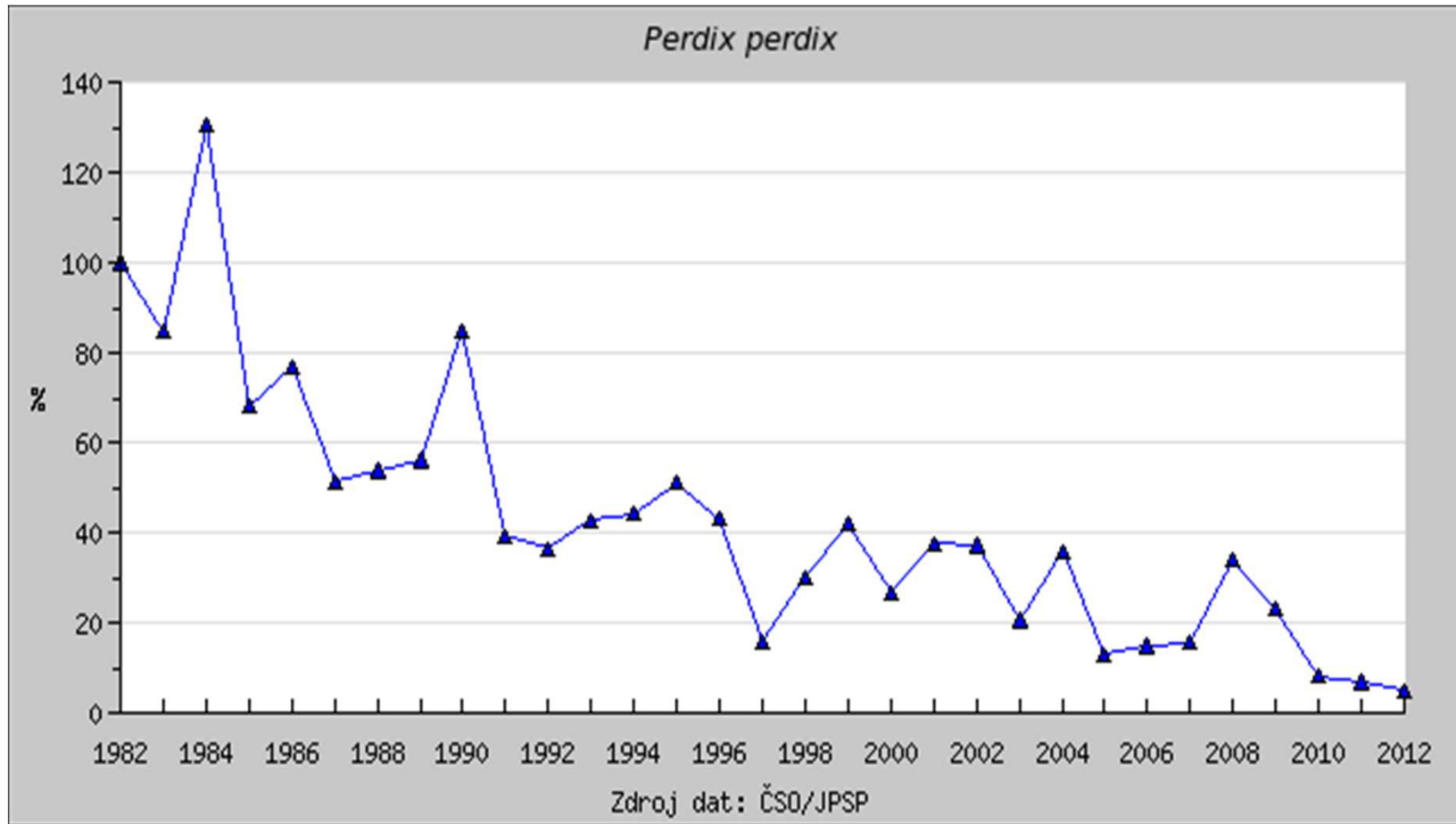
Magpie (*Pica pica*)



Lapwing (*Vanellus vanellus*)



Grey Partridge (*Perdix perdix*)





Thank you.

