Supplementary online material

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Detectability of birds under different sampling efforts and during the breeding season: a case study from Central Europe

Jan Riegert

Department of Zoology, Faculty of Science, University of South Bohemia, České Budějovice, Czech Republic, e-mail: honza@riegert.cz, ORCID: 0000-0003-4195-1278

Table S1. Maximal densities of breeding bird species detected along the road from Přední Zvonková to the border crossing Zvonková/Schöneben. Species are ordered from the highest to the lowest densities.

Species	Family	Pairs/km^2 ± s.d.
Fringilla coelebs	Fringillidae	67.57 ± 6.75
Emberiza citrinella	Emberizidae	54.05 ± 4.53
Sylvia atricapilla	Sylviidae	43.24 ± 3.93
Sturnus vulgaris	Sturnidae	43.24 ± 4.25
Saxicola rubetra	Muscicapidae	43.24 ± 4.31
Columba palumbus	Columbidae	40.54 ± 3.85
Turdus merula	Turdidae	40.54 ± 3.75
Phylloscopus trochilus	Phylloscopidae	35.14 ± 3.90
Turdus philomelos	Turdidae	32.43 ± 4.12
Erithacus rubecula	Muscicapidae	32.43 ± 2.97
Carduelis spinus	Fringillidae	32.43 ± 3.30
Parus major	Paridae	29.73 ± 2.80
Hirundo rustica	Hirundinidae	27.03 ± 3.10
Turdus pilaris	Turdidae	27.03 ± 2.56
Turdus viscivorus	Turdidae	27.03 ± 2.68
Anthus trivialis	Motacillidae	27.03 ± 3.83
Poecile montanus	Paridae	24.32 ± 2.46
Passer domesticus	Passeridae	24.32 ± 1.69
Cyanistes caeruleus	Paridae	21.62 ± 1.75
Regulus ignicapillus	Regulidae	21.62 ± 1.72
Carduelis carduelis	Fringillidae	21.62 ± 2.32
Dendrocopos major	Picidae	18.92 ± 1.94
Periparus ater	Paridae	18.92 ± 1.19
Loxia curvirostra	Fringillidae	18.92 ± 1.63
Crex crex	Rallidae	16.22 ± 1.76
Corvus corone	Corvidae	16.22 ± 1.80
Aegithalos caudatus	Aegithalidae	16.22 ± 1.35
Phylloscopus collybita	Phylloscopidae	16.22 ± 1.85
Sylvia communis	Sylviidae	16.22 ± 2.09
Sitta europaea	Sittidae	16.22 ± 1.65
Phoenicurus ochruros	Muscicapidae	16.22 ± 1.45
Prunella modularis	Prunellidae	16.22 ± 1.92
Motacilla alba	Motacillidae	16.22 ± 1.50
Motacilla cinerea	Motacillidae	16.22 ± 1.33
Coturnix coturnix	Phasianidae	13.51 ± 1.39
Delichon urbica	Hirundinidae	13.51 ± 1.39
Troglodytes troglodytes	Troglodytidae	13.51 ± 1.26
Passer montanus	Passeridae	13.51 ± 1.59
Pyrrhula pyrrhula	Fringillidae	13.51 ± 1.45
Gallinago gallinago	Scolopacidae	10.81 ± 1.21
Lanius collurio	Laniidae	10.81 ± 1.16
Garrulus glandarius	Corvidae	10.81 ± 1.08
Oriolus oriolus	Corvidae	10.81 ± 1.18
Locustella naevia	Locustellidae	10.81 ± 1.36
Regulus regulus	Regulidae	10.81 ± 1.08
Certhia familiaris	Certhiidae	10.81 ± 1.19
Anthus pratensis	Motacillidae	10.81 ± 1.08
Carduelis chloris	Fringillidae	10.81 ± 1.29
Vanellus vanellus	Charadriidae	8.11 ± 0.94
Cuculus canorus	Cuculidae	8.11 ± 0.74
Buteo buteo	Accipitridae	8.11 ± 0.83
Dryocopus martius	Picidae	8.11 ± 0.72
Lophophanes cristatus	Paridae	8.11 ± 0.77

Alauda arvensis	Alaudidae	8.11 ± 0.93
Acrocephalus palustris	Acrocephalidae	8.11 ± 1.13
Sylvia borin	Sylviidae	8.11 ± 0.86
Phoenicurus phoenicurus	Muscicapidae	8.11 ± 0.75
Muscicapa striata	Muscicapidae	8.11 ± 1.00
Coccothraustes coccothraustes	Fringillidae	8.11 ± 0.89
Phasianus colchicus	Phasianidae	5.41 ± 0.55
Perdix perdix	Phasianidae	5.41 ± 0.49
Columba oenas	Columbidae	5.41 ± 0.67
Streptopelia decaocto	Columbidae	5.41 ± 0.58
Picus viridis	Picidae	5.41 ± 0.59
Jynx torquilla	Picidae	5.41 ± 0.67
Nucifraga caryocatactes	Corvidae	5.41 ± 0.60
Pica pica	Corvidae	5.41 ± 0.75
Corvus corax	Corvidae	5.41 ± 0.60
Hippolais icterina	Acrocephalidae	5.41 ± 0.55
Phylloscopus sibilatrix	Phylloscopidae	5.41 ± 0.49
Sylvia curruca	Sylviidae	5.41 ± 0.57
Carduelis flammea	Fringillidae	5.41 ± 0.57
Carpodacus erythrinus	Fringillidae	5.41 ± 0.55
Anas platyrhynchos	Anatidae	2.70 ± 0.41
Bonasa bonasia	Phasianidae	2.70 ± 0.22
Accipiter nisus	Accipitridae	2.70 ± 0.41
Accipiter gentilis	Accipitridae	2.70 ± 0.22
Glaucidium passerinum	Strigidae	2.70 ± 0.22
Dendrocopos minor	Picidae	2.70 ± 0.50
Falco tinnuculus	Falconidae	2.70 ± 0.36
Poecile palustris	Paridae	2.70 ± 0.41
Lullula arborea	Alaudidae	2.70 ± 0.31
Locustella fluviatilis	Locustellidae	2.70 ± 0.22
Certhia brachydactyla	Certhiidae	2.70 ± 0.31
Cinclus cinclus	Cinclidae	2.70 ± 0.41
Serinus serinus	Fringillidae	2.70 ± 0.48
Carduelis cannabina	Fringillidae	2.70 ± 0.46

Fig. S1. Trends in detectability of bird species at the transect from Přední Zvonková to border with Austria (Czech Republic). Results of regression analyses are available in Table 2.

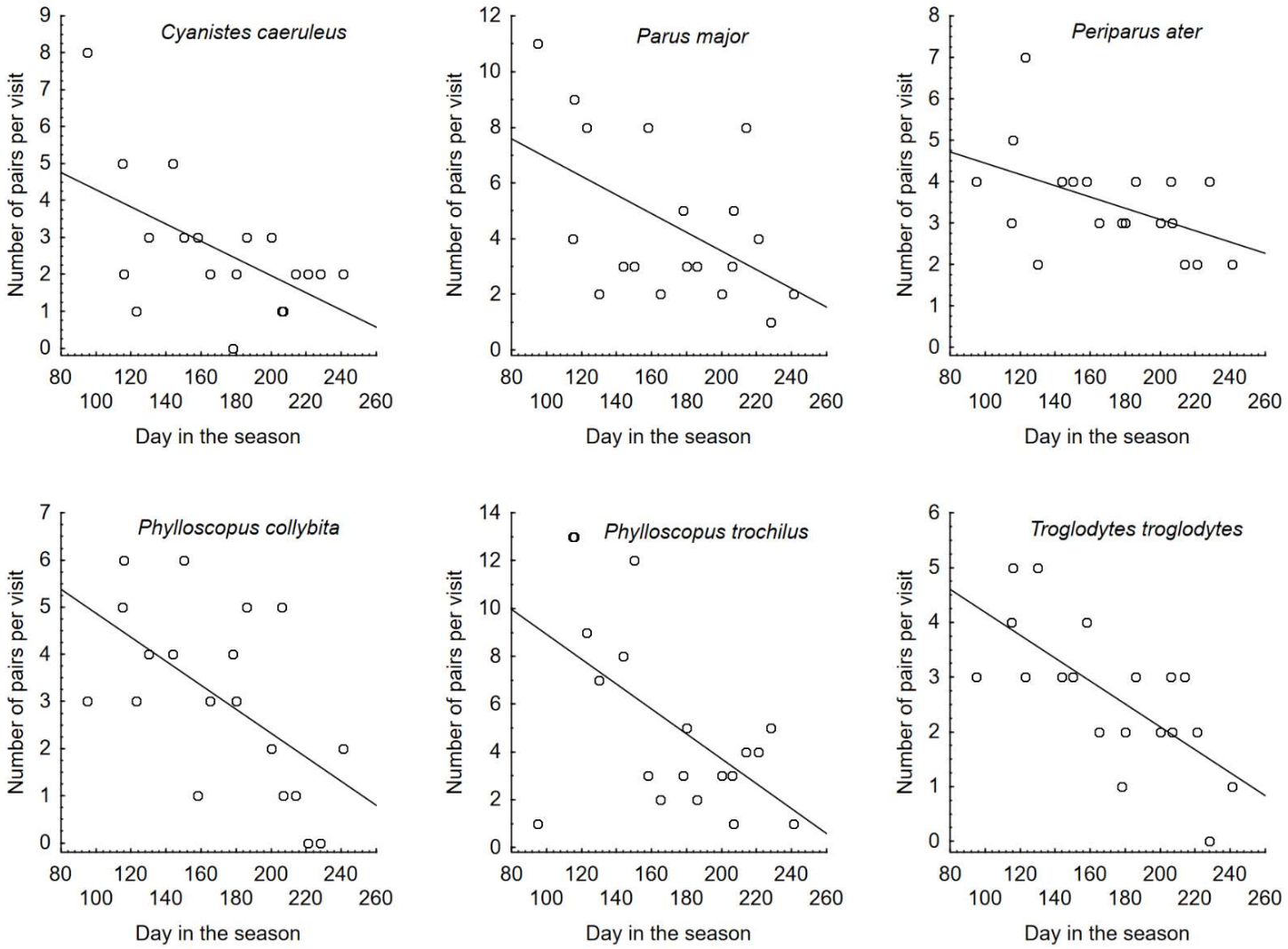

Fig. S2. Trends in detectability of bird species at the transect from Přední Zvonková to border with Austria (Czech Republic). Results of regression analyses are available in Table 2.

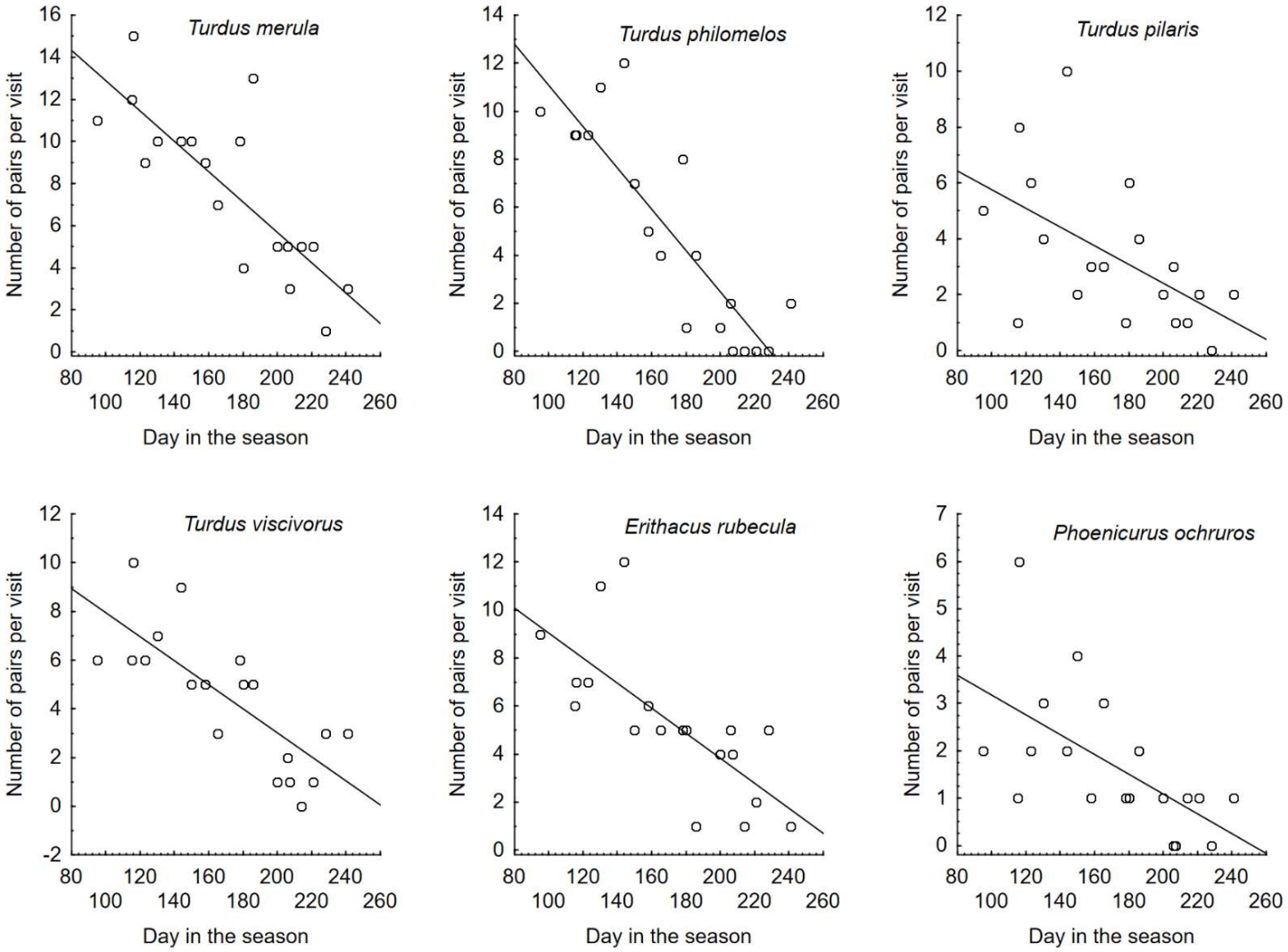

Fig. S3. Trends in detectability of bird species at the transect from Přední Zvonková to border with Austria (Czech Republic). Results of regression analyses are available in Table 2.

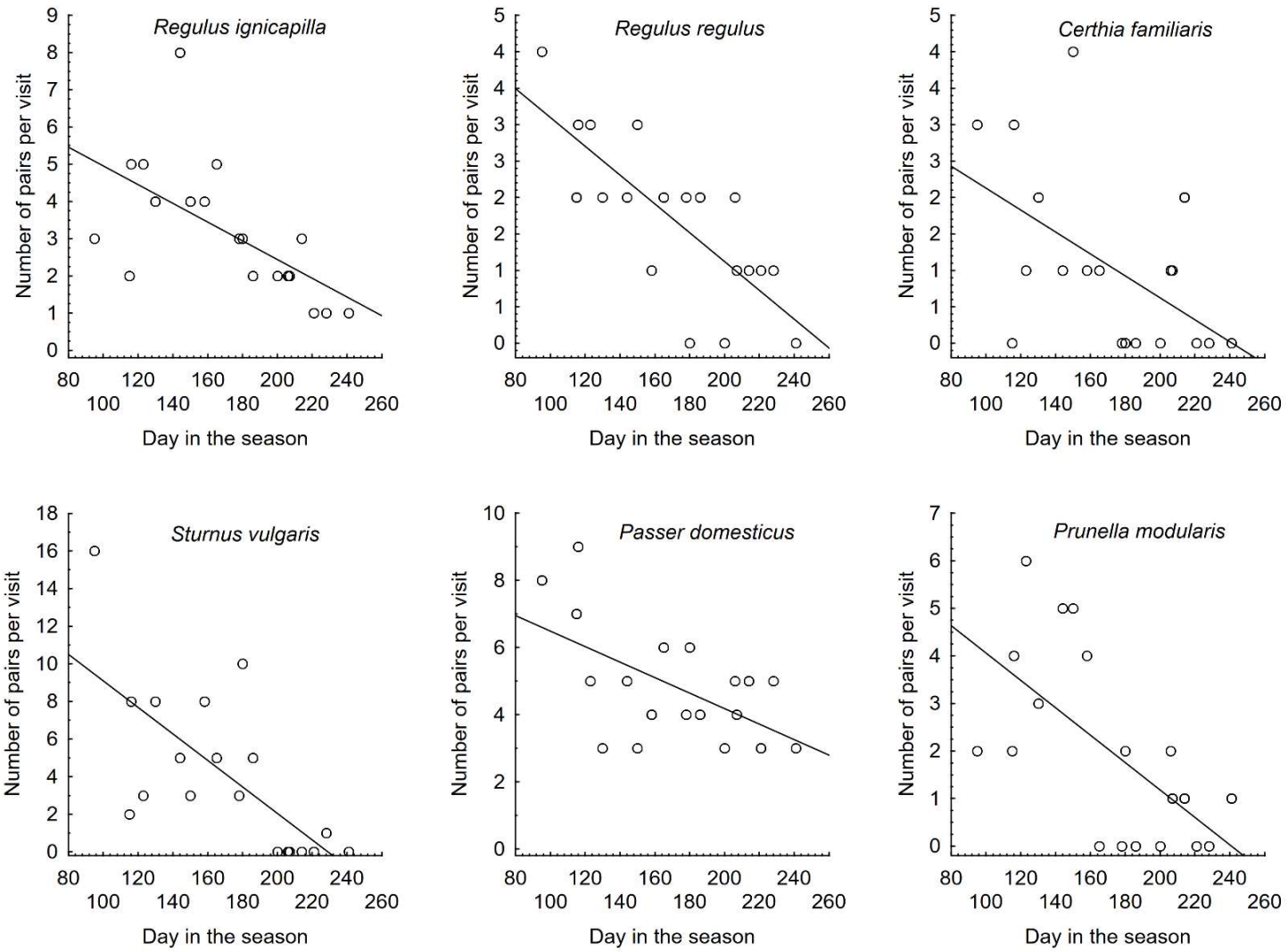

Fig. S4. Trends in detectability of bird species at the transect from Přední Zvonková to border with Austria (Czech Republic). Results of regression analyses are available in Table 2.

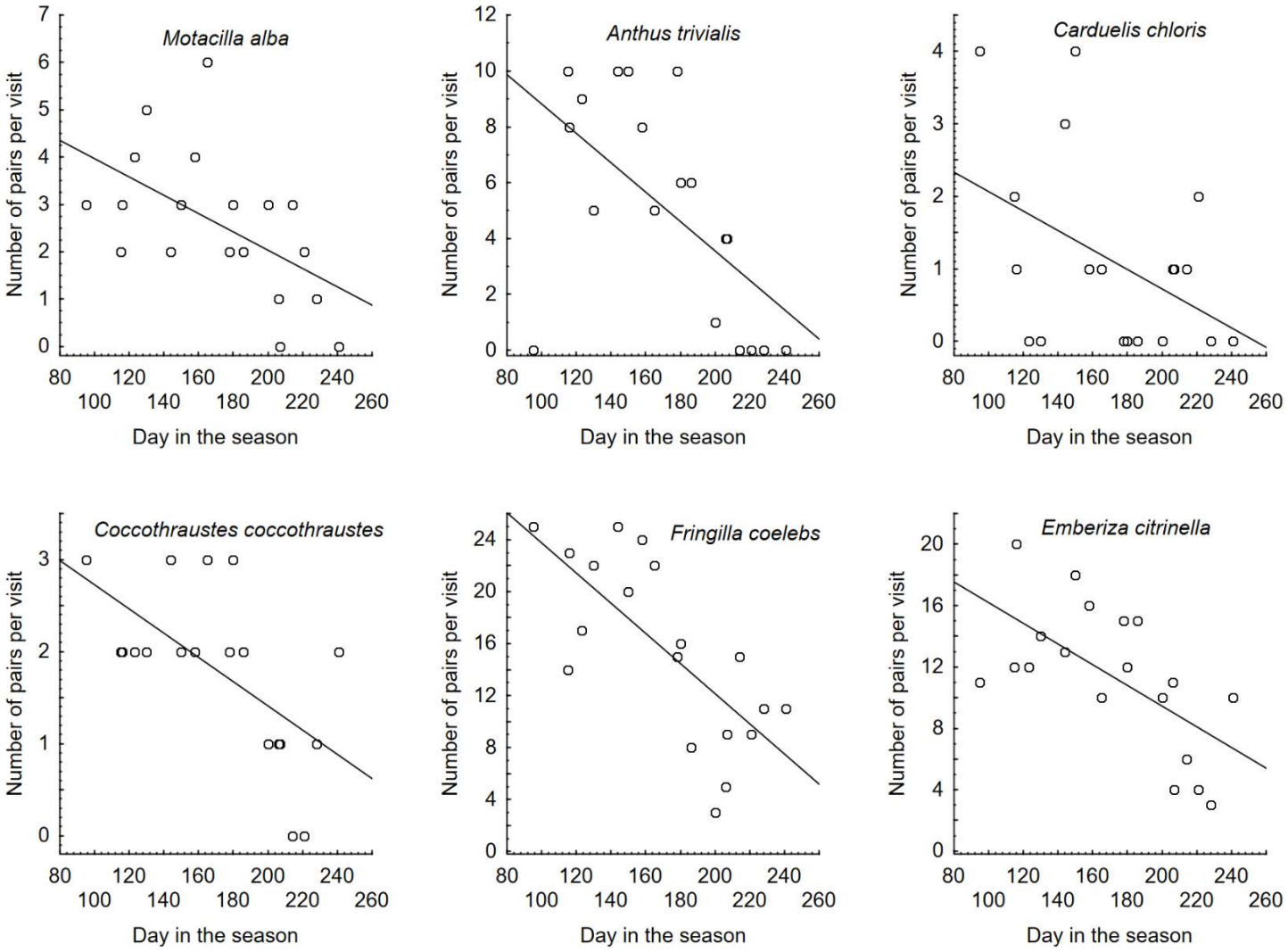

Fig. S5. Trends in detectability of bird species at the transect from Přední Zvonková to border with Austria (Czech Republic). Results of regression analyses are available in Table 2.

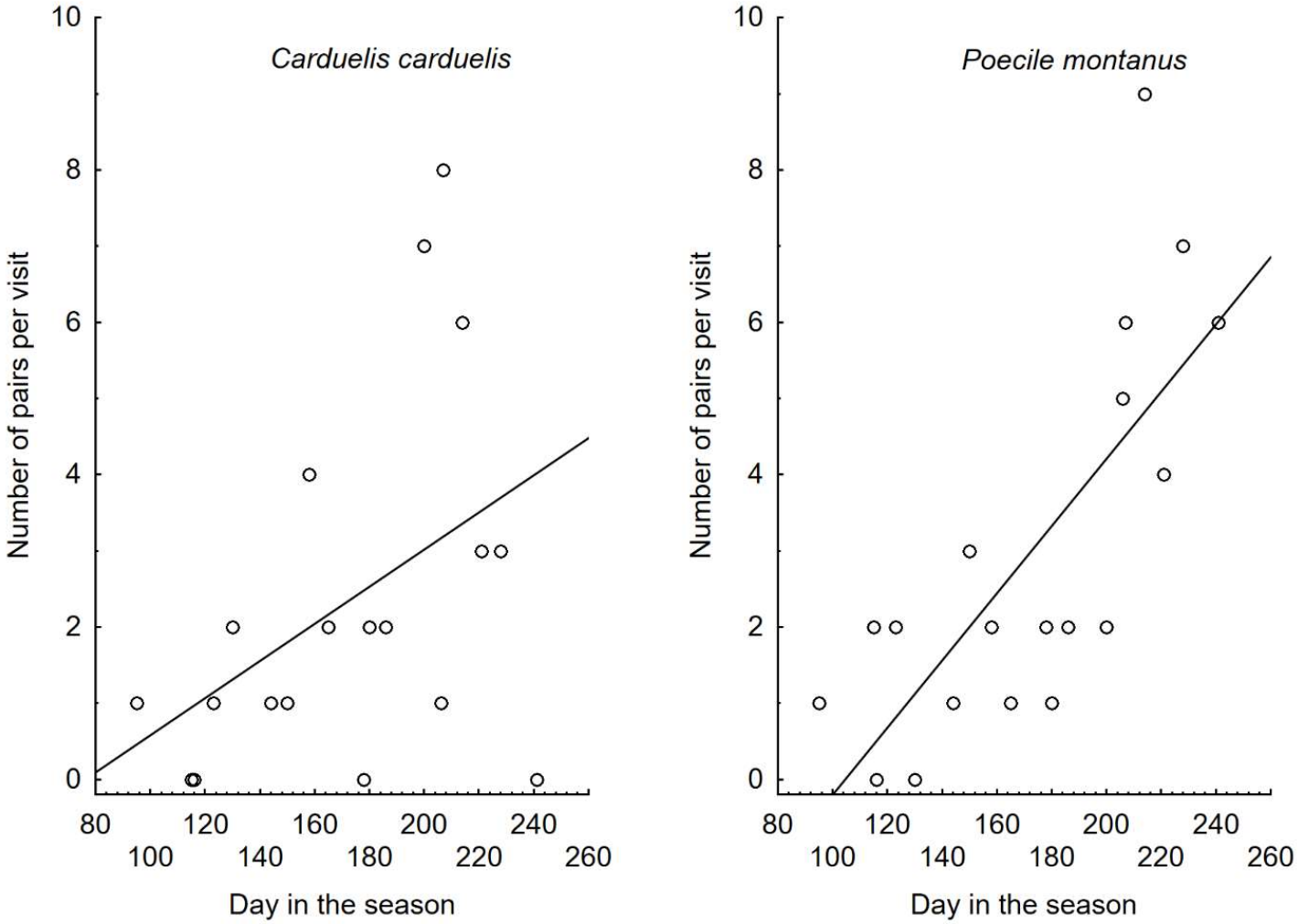

Fig. S6. Trends in detectability of bird species at the transect from Přední Zvonková to border with Austria (Czech Republic). Non-linear estimation analyses.

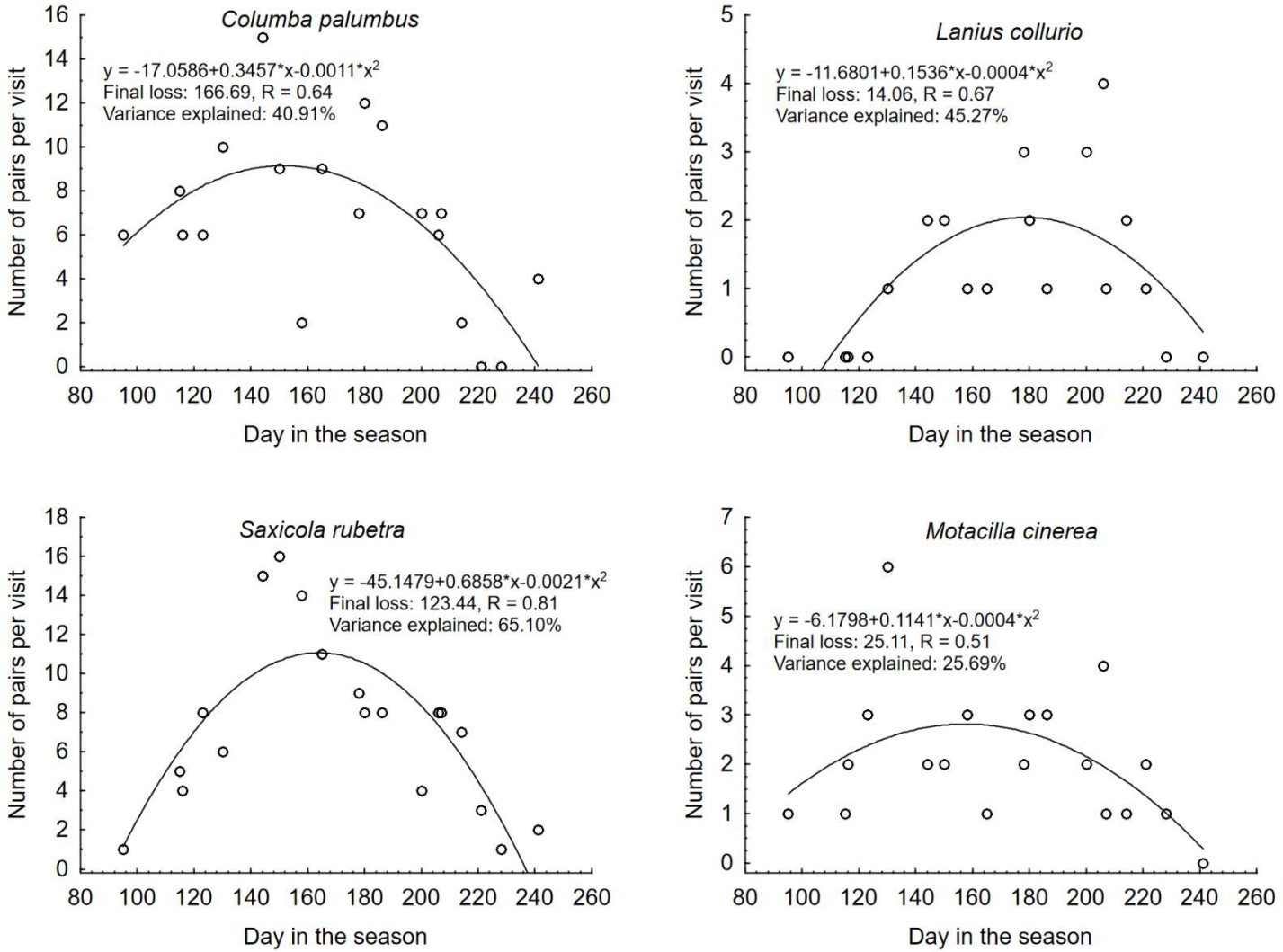

Fig. S7. Trends in detectability of bird species at the transect from Přední Zvonková to border with Austria (Czech Republic). Non-linear estimation analyses.

