

Supplementary material

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Population trends of common breeding birds in Germany 1990–2018

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Fig. S1: Population trends for all species, separately per trait category (each coloured line connects the yearly TRIM indices of a species), for the traits habitat, nest site, diet and sub categories of insectivorous species, migration strategy and wintering region.

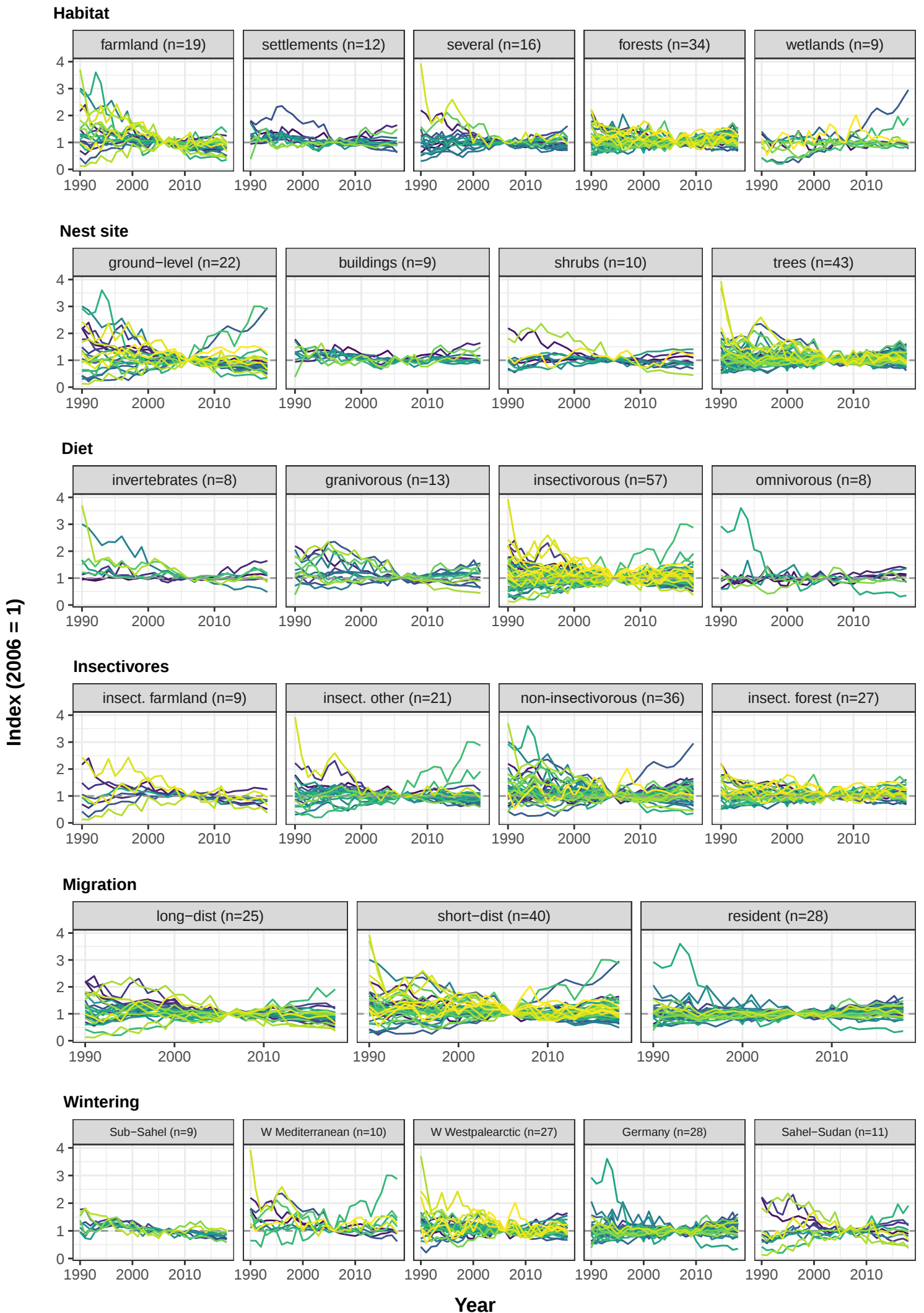
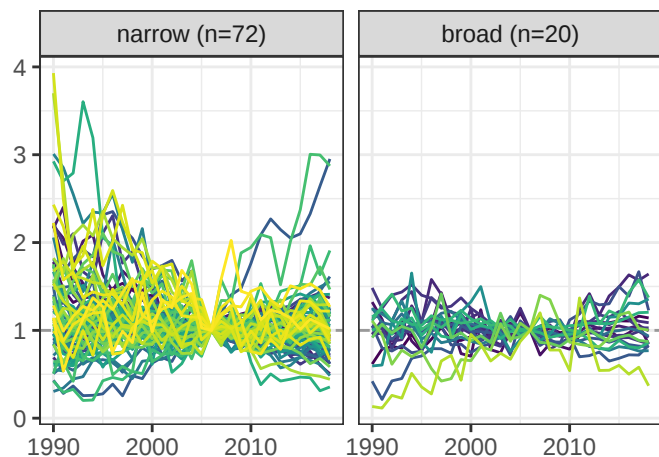


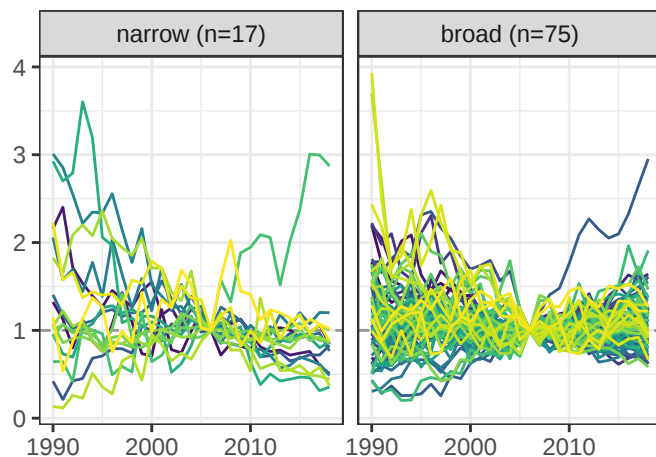
Fig. S2: Population trends for all species, separately per trait category (each coloured line connects the yearly TRIM indices of a species), for the traits diet breadth, habitat breadth, population size in Germany and species temperature preference.

Index (2006 = 1)

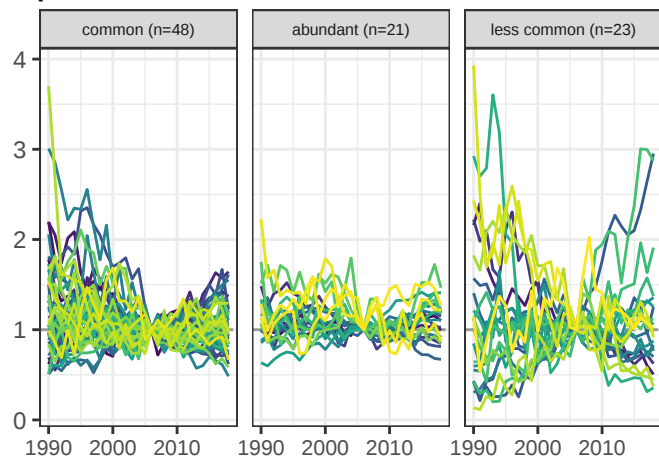
Diet Breadth



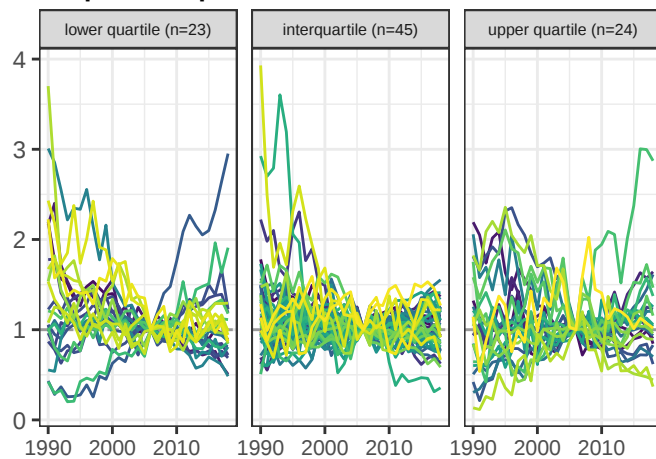
Habitat Breadth



Population size



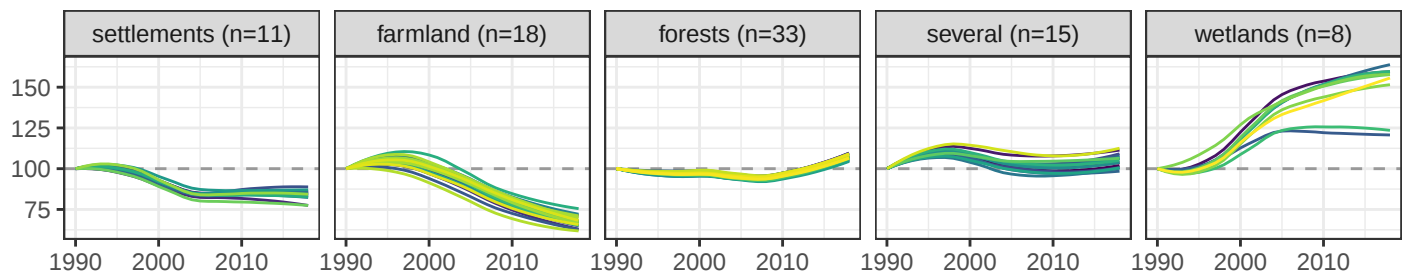
Temperature preference



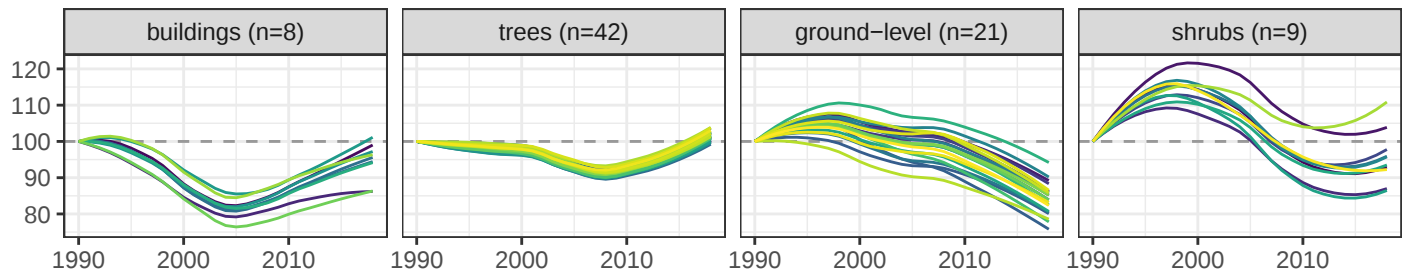
Year

Fig. S3: Leave-one-out sensitivity analysis. Smoothed MSIs per functional group (habitat, nest site, diet and sub categories of insectivorous species, migration strategy and wintering region), each colour represents one MSI excluding a single species at a time. Sample sizes refer to the number of species in a certain category minus the left-out species.

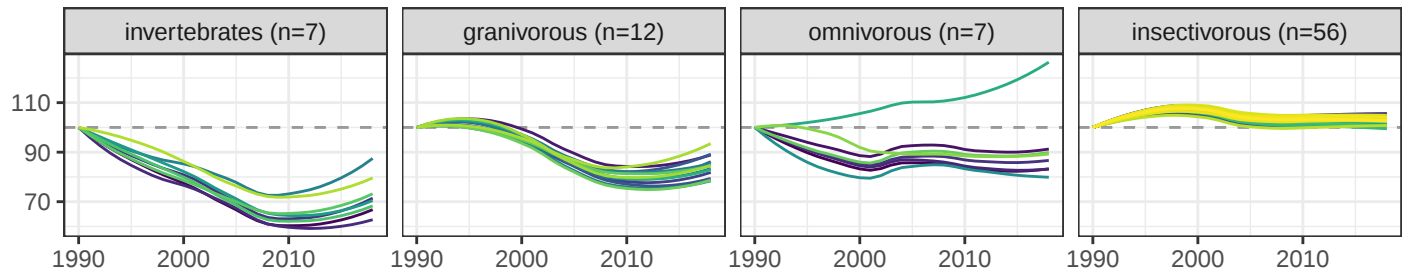
Habitat



Nest site

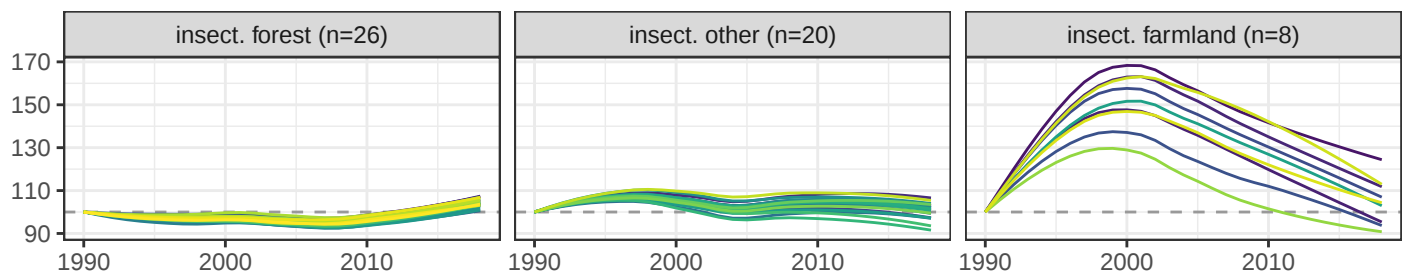


Diet

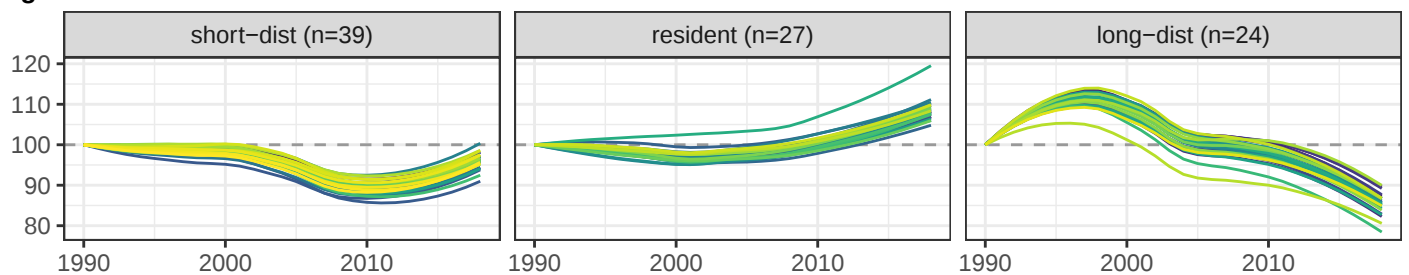


MSI (1990 = 100)

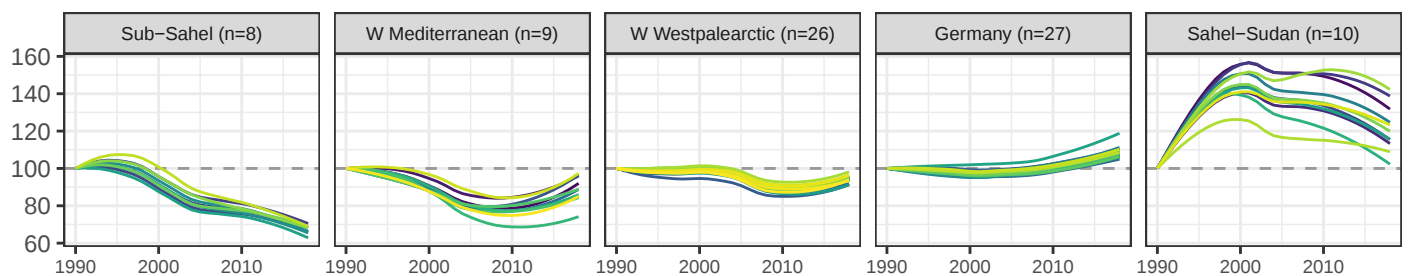
insectivores



Migration



Winter



Year

Fig. S4: Leave-one-out sensitivity analysis. Smoothed MSIs per functional group (niche breadth, population size and temperature niche). Each colour represents one MSI excluding a single species at a time. Sample sizes refer to the number of species in a certain category minus the left-out species.

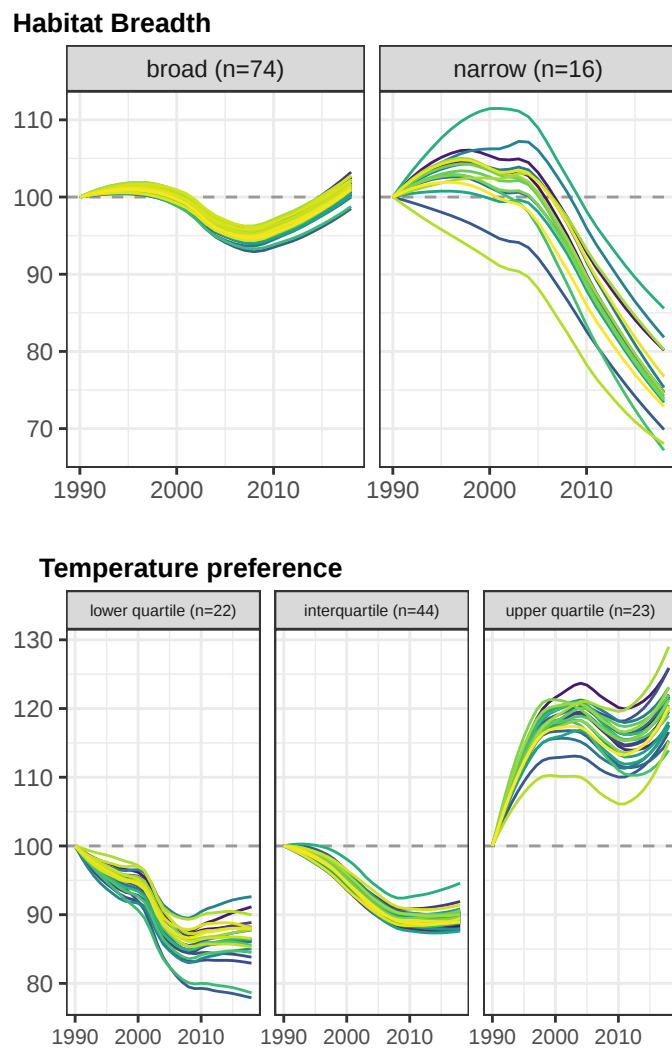
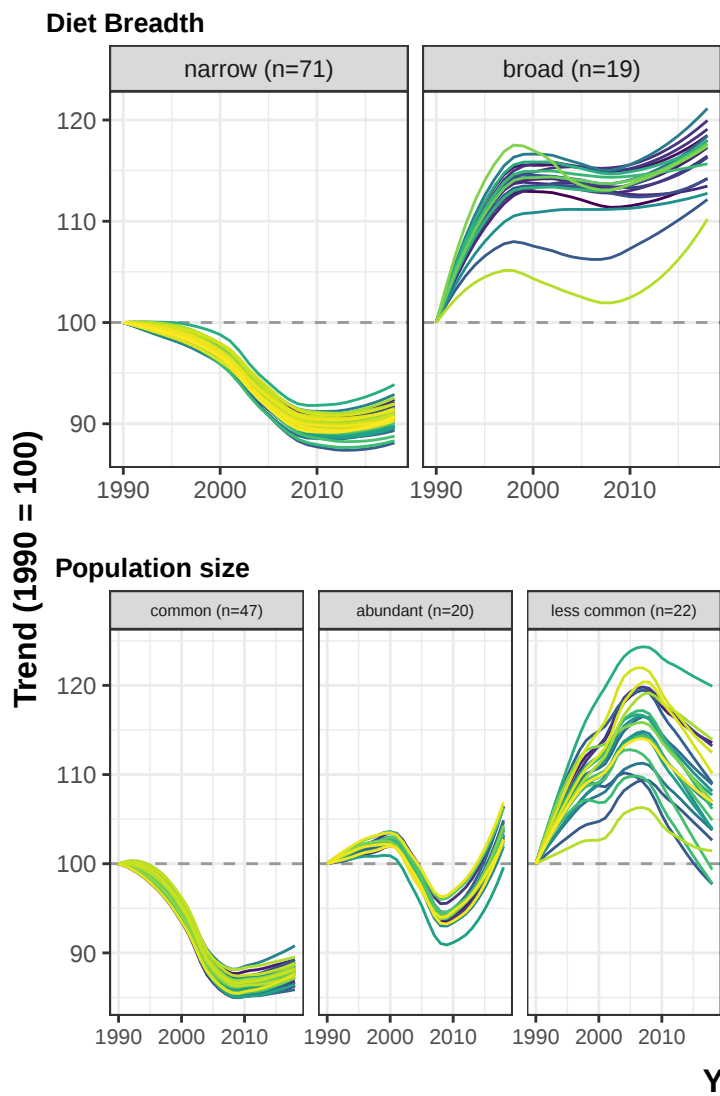


Fig. S5: Population trends for all 93 species covered routinely by the monitoring program in the period 1990–2018 (yearly TRIM indices, blue, with standard errors). A loess smooth curve (red) and its 95% CI (grey band) are displayed for easier visual interpretation.

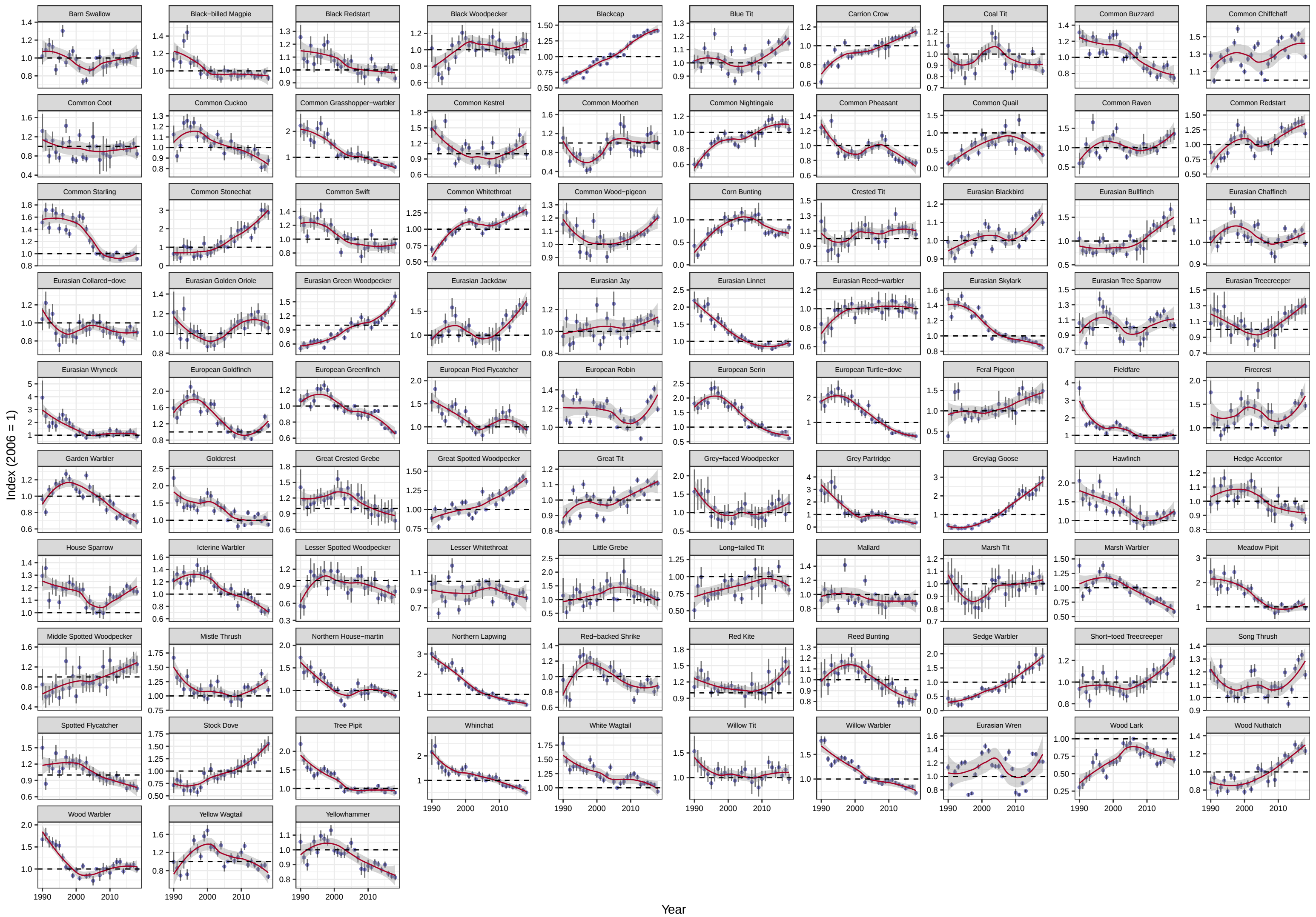
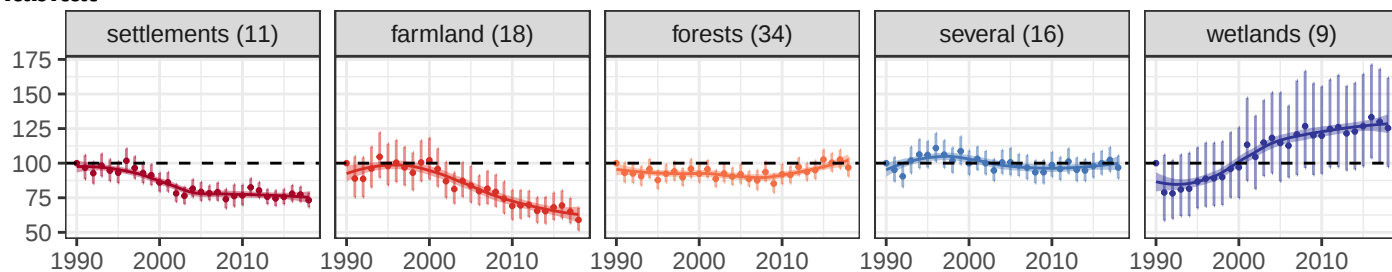


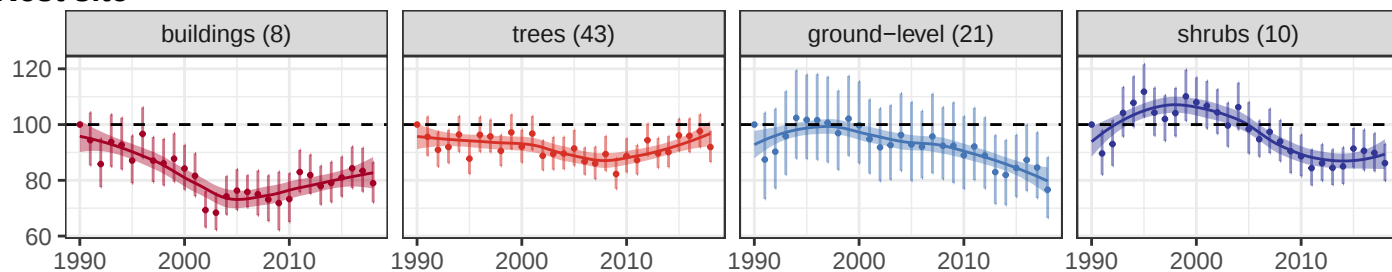
Fig. S6: Multi-species indicators 1990–2018 for the traits habitat, nest site, diet, migration strategy and wintering region. Same plots as in Fig. 3 (main text), but without the species Common Pheasant (*Phasianus colchicus*) and Feral Pigeon (*Columba livia* f. *domestica*), total sample size $n = 91$ species.

MSI (1990 = 100)

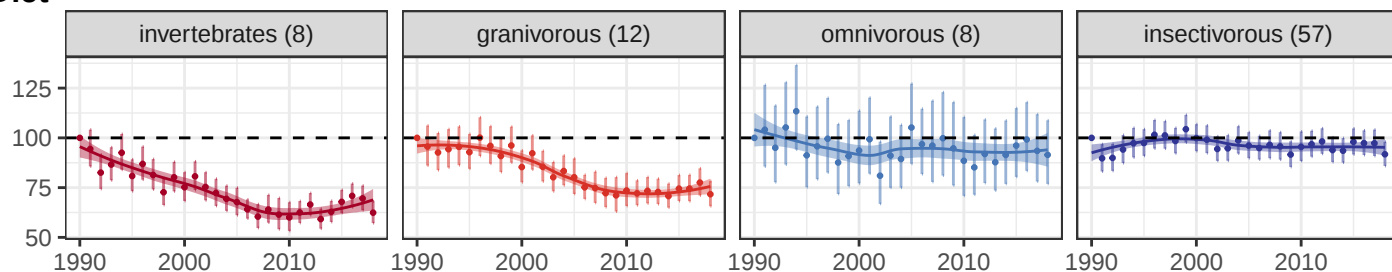
Habitat



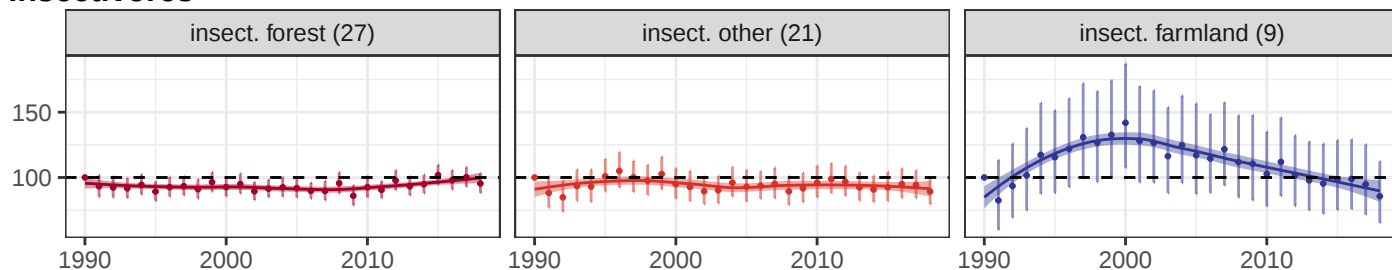
Nest site



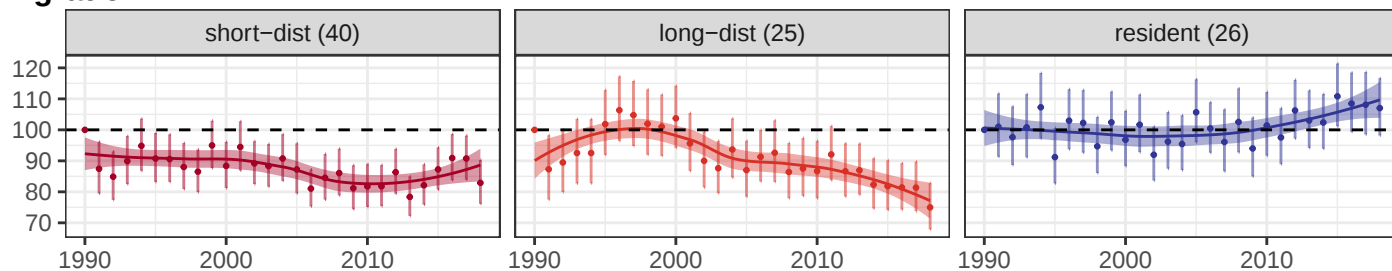
Diet



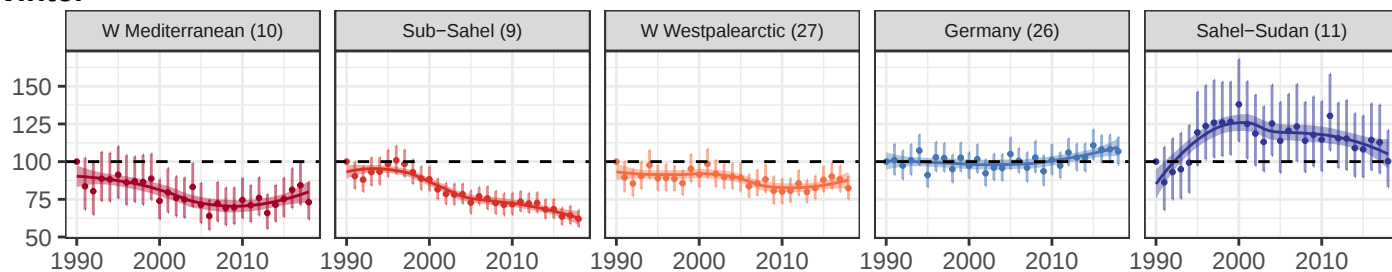
Insectivores



Migration



Winter

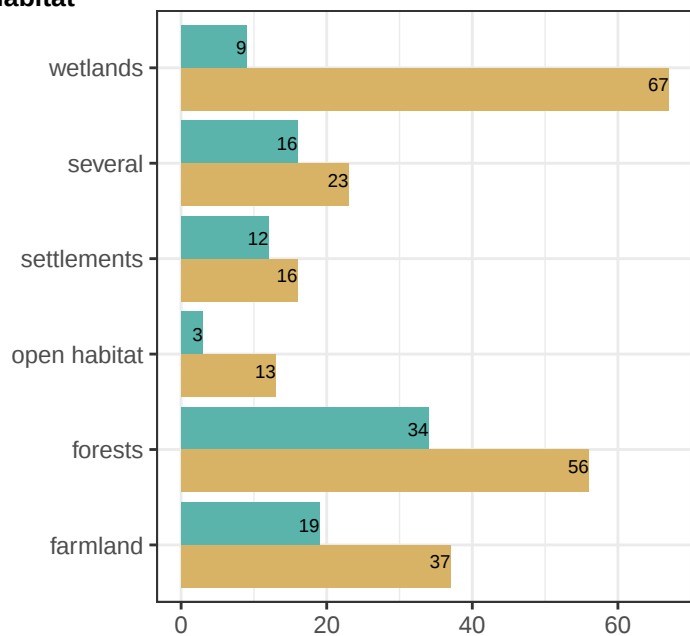


Year

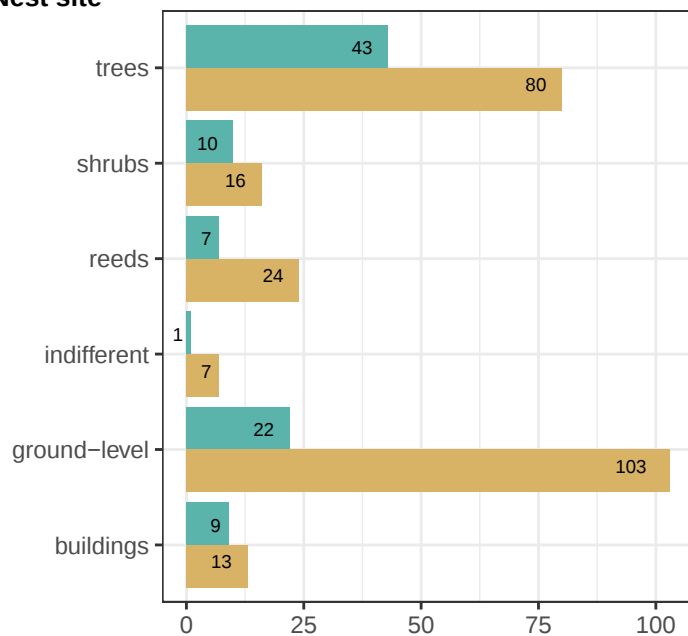
Fig. S7: Number of all species breeding regularly in Germany (incl. neobiota, after Gerlach et al. 2020, for reference see main text) per trait category vs. the number of species included in the analyses presented here. Categories not included in our analysis are not displayed.

all species (n=261) selected species (n=93)

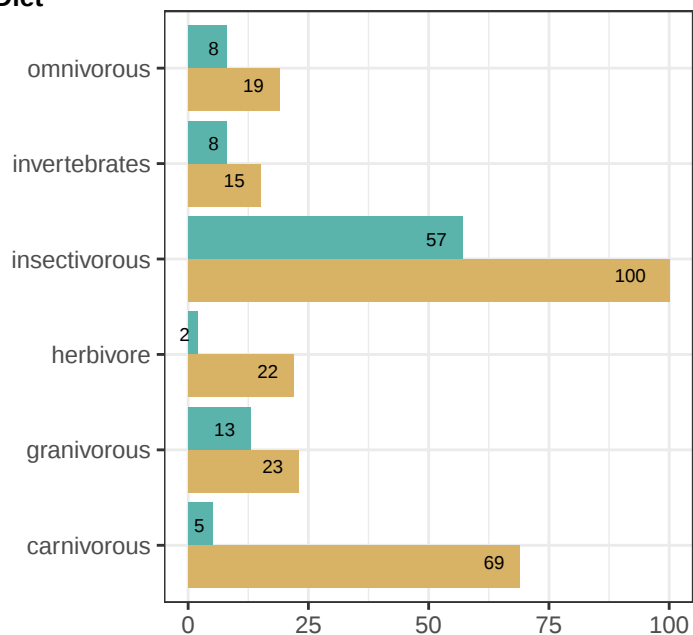
Habitat



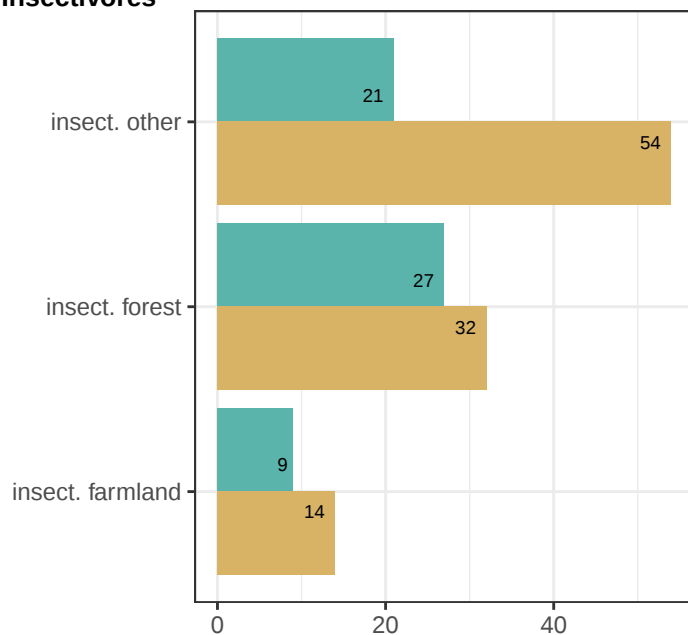
Nest site



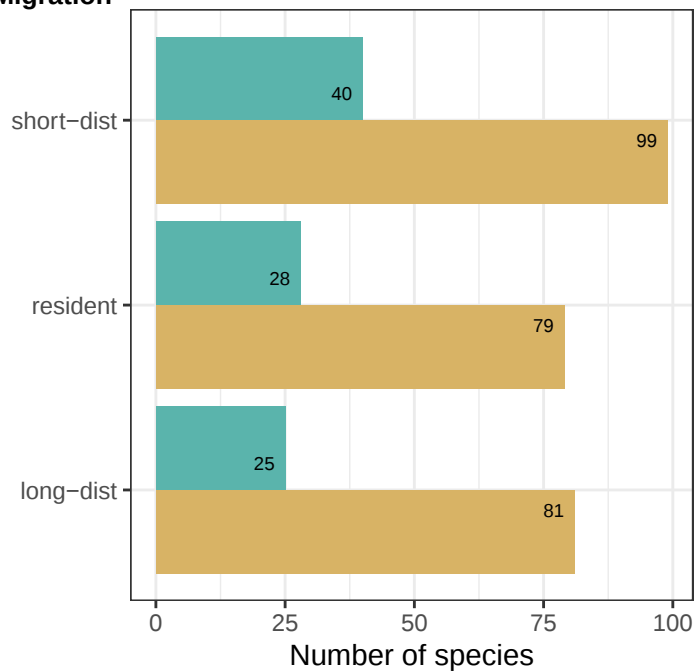
Diet



Insectivores



Migration



Winter

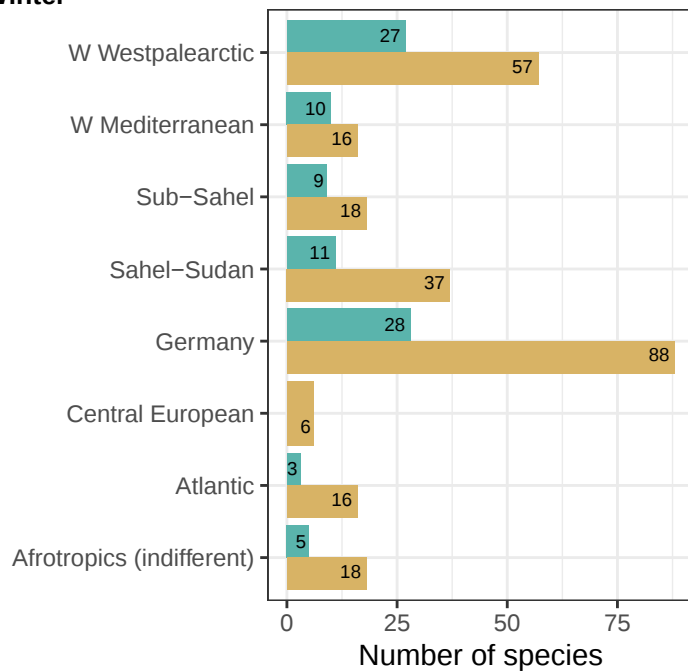


Table S1: Estimates of linear trends 1990–2018 + standard errors (SE) and values for all traits and species considered in the analysis. For a description of the trait categories see the methods section.

Species	Trend	SE	Habitat	Nest site	Diet	Insectivores	Wintering	Migration	Temperature preference	Habitat Breadth	Diet Breadth	Population size
Barn Swallow	0.997	0.001	settlements	buildings	insectivorous	insect. other	Afrotropics (indifferent) W	long-dist	interquartile	broad	narrow	common
Black Redstart	0.993	0.001	settlements	buildings	insectivorous	insect. other	Mediterranean	short-dist	upper quartile	broad	broad	common
Black Woodpecker	1.007	0.002	forests	trees	insectivorous	insect. forest	Germany	resident	lower quartile	broad	narrow	less common
Black-billed Magpie	0.990	0.001	settlements	trees	invertebrates	no	Germany W	resident	interquartile	broad	broad	common
Blackcap	1.032	0.001	forests	shrubs	insectivorous	insect. forest	Westpaleartic	short-dist	interquartile	broad	narrow	abundant
Blue Tit	1.004	0.001	forests	trees	insectivorous	insect. forest	Germany	resident	interquartile	broad	narrow	abundant
Carrion Crow	1.013	0.001	several	trees	omnivorous	no	Germany	resident	interquartile	broad	broad	common
Coal Tit	1.000	0.002	forests	trees	insectivorous	insect. forest	Germany W	resident	interquartile	narrow	narrow	abundant
Common Buzzard	0.982	0.001	farmland	trees	carnivorous	no	Westpaleartic W	short-dist	interquartile	broad	narrow	common
Common Chiffchaff	1.008	0.001	forests	ground-level	insectivorous	insect. forest	Mediterranean W	short-dist	interquartile	broad	narrow	abundant
Common Coot	0.995	0.004	wetlands	reeds	omnivorous	no	Westpaleartic	short-dist	upper quartile	narrow	broad	common
Common Cuckoo	0.990	0.001	several	NA	insectivorous	insect. other	Sub-Sahel	long-dist	interquartile	broad	narrow	less common
Common Grasshopper-warbler	0.945	0.005	open habitat	ground-level	insectivorous	insect. other	Sahel-Sudan W	long-dist	interquartile	broad	narrow	less common
Common Kestrel	0.991	0.003	farmland	buildings	carnivorous	no	Westpaleartic W	short-dist	interquartile	broad	narrow	common
Common Moorhen	1.014	0.004	wetlands	reeds	omnivorous	no	Westpaleartic	short-dist	upper quartile	broad	broad	less common
Common Nightingale	1.017	0.001	several	ground-level	insectivorous	insect. other	Sahel-Sudan	long-dist	upper quartile	broad	narrow	common
Common Pheasant	0.988	0.002	farmland	ground-level	herbivore	no insect.	Germany	resident	interquartile	broad	broad	less common
Common Quail	1.015	0.002	farmland	ground-level	insectivorous	farmland	Sahel-Sudan	long-dist	upper quartile	narrow	broad	less common
Common Raven	1.008	0.004	forests	trees	omnivorous	no	Germany	resident	interquartile	broad	broad	less common
Common Redstart	1.018	0.002	several	trees	insectivorous	insect. other	Sahel-Sudan W	long-dist	lower quartile	broad	narrow	common
Common Starling	0.970	0.002	farmland	trees	invertebrates	no	Westpaleartic W	short-dist	interquartile	broad	narrow	abundant
Common Stonechat	1.084	0.009	open habitat	ground-level	insectivorous	insect. other	Mediterranean	short-dist	upper quartile	narrow	narrow	less common
Common Swift	0.984	0.002	settlements	buildings	insectivorous	insect. other	Sub-Sahel	long-dist	interquartile	broad	narrow	common

Common Whitethroat	1.018	0.001	farmland	shrubs	insectivorous	insect. farmland	Sahel-Sudan W	long-dist	interquartile	broad	narrow	common
Common Wood-pigeon	1.001	0.001	several	trees	granivorous	no insect. farmland	Westpalearctic W	short-dist	interquartile	broad	broad	abundant less common
Corn Bunting	1.010	0.003	farmland	ground-level	insectivorous	insect. forest	Westpalearctic W	short-dist	upper quartile	narrow	broad	common
Crested Tit	1.007	0.003	forests	trees	insectivorous	insect. forest	Germany W	resident	interquartile	broad	narrow	common
Blackbird	1.005	0.001	several	shrubs	invertebrates	no	Westpalearctic W	short-dist	interquartile	broad	narrow	abundant
Eurasian Bullfinch	1.023	0.003	forests	trees	granivorous	no	Germany W	resident	lower quartile	broad	broad	common
Eurasian Chaffinch	0.999	0.001	forests	trees	insectivorous	insect. forest	Westpalearctic W	short-dist	interquartile	broad	broad	abundant
Eurasian Collared-dove	0.996	0.002	settlements	trees	granivorous	no	Germany W	resident	upper quartile	narrow	narrow	common
Eurasian Golden Oriole	1.004	0.002	forests	trees	insectivorous	insect. forest	Afrotropics (indifferent)	long-dist	upper quartile	broad	narrow	less common
Eurasian Green Woodpecker	1.032	0.002	several	trees	insectivorous	insect. forest	Germany W	resident	upper quartile	broad	narrow	common
Eurasian Jackdaw	1.014	0.004	settlements	buildings	invertebrates	no	Westpalearctic W	short-dist	upper quartile	broad	broad	common
Eurasian Jay	1.004	0.001	forests	trees	omnivorous	no	Germany W	resident	interquartile	broad	broad	common
Eurasian Linnet	0.955	0.003	several	shrubs	granivorous	no	Mediterranean W	short-dist	upper quartile	broad	narrow	common
Eurasian Reed-warbler	1.007	0.002	wetlands	reeds	insectivorous	insect. other insect. farmland	Sahel-Sudan W	long-dist	upper quartile	broad	narrow	common
Eurasian Skylark	0.978	0.001	farmland	ground-level	insectivorous	insect. farmland	Westpalearctic W	short-dist	interquartile	broad	broad	abundant
Eurasian Tree Sparrow	1.000	0.002	farmland	trees	granivorous	no	Germany W	resident	upper quartile	broad	broad	abundant
Eurasian Treecreeper	1.004	0.003	forests	trees	insectivorous	insect. forest	Germany W	resident	lower quartile	broad	narrow	common less common
Eurasian Wryneck	0.945	0.011	several	trees	insectivorous	insect. other	Mediterranean W	short-dist	interquartile	broad	narrow	common
European Goldfinch	0.968	0.003	several	trees	granivorous	no	Mediterranean W	short-dist	upper quartile	broad	narrow	common
European Greenfinch	0.984	0.001	settlements	indifferent	granivorous	no	Westpalearctic W	short-dist	interquartile	broad	narrow	abundant
European Pied Flycatcher	0.984	0.003	forests	trees	insectivorous	insect. forest	Sub-Sahel W	long-dist	lower quartile	broad	narrow	common
European Robin	0.998	0.001	forests	ground-level	insectivorous	insect. forest	Westpalearctic W	short-dist	interquartile	broad	narrow	abundant
European Serin	0.946	0.004	settlements	trees	granivorous	no	Mediterranean W	short-dist	upper quartile	broad	narrow	common less common
European Turtle-dove	0.932	0.005	farmland	shrubs	granivorous	no	Sahel-Sudan W	long-dist	upper quartile	narrow	narrow	common
Feral Pigeon	1.018	0.004	settlements	buildings	granivorous	no	Germany W	resident	NA	NA	NA	NA
Fieldfare	0.949	0.004	farmland	trees	invertebrates	no	Westpalearctic W	short-dist	lower quartile	broad	narrow	common
Firecrest	1.006	0.003	forests	trees	insectivorous	insect. forest	W	short-dist	upper quartile	broad	narrow	abundant

Garden Warbler	0.985	0.001	forests	shrubs	insectivorous	insect. forest	Mediterranean Sub-Sahel W	long-dist	lower quartile	broad	narrow	common
Goldcrest	0.971	0.003	forests	trees	insectivorous	insect. forest	Westpalearctic W	short-dist	lower quartile	narrow	narrow	abundant
Great Crested Grebe	0.987	0.005	wetlands	reeds	carnivorous	no	Westpalearctic	short-dist	interquartile	narrow	narrow	less common
Great Spotted Woodpecker	1.017	0.001	forests	trees	omnivorous	no	Germany	resident	interquartile	broad	narrow	common
Great Tit	1.006	0.001	several	trees	insectivorous	insect. other	Germany	resident	interquartile	broad	narrow	abundant less
Grey Partridge	0.911	0.012	farmland	ground-level	omnivorous	no	Germany	resident	interquartile	narrow	narrow	common
Grey-faced Woodpecker	0.993	0.008	forests	trees	insectivorous	insect. forest	Germany	resident	interquartile	broad	narrow	less common less
Greylag Goose	1.099	0.007	wetlands	ground-level	herbivore	no	Atlantic	short-dist	lower quartile	broad	narrow	common
Hawfinch	0.972	0.004	forests	trees	granivorous	no	Germany W	resident	upper quartile	narrow	narrow	common
Hedge Accentor	0.994	0.001	several	shrubs	insectivorous	insect. other	Westpalearctic	short-dist	lower quartile	broad	narrow	abundant
House Sparrow	0.997	0.001	settlements	buildings	granivorous	no	Germany	resident	interquartile	broad	narrow	abundant
Icterine Warbler	0.979	0.002	several	trees	insectivorous	insect. other	Sub-Sahel	long-dist	lower quartile	broad	narrow	common less
Lesser Spotted Woodpecker	0.996	0.004	forests	trees	insectivorous	insect. forest	Germany	resident	lower quartile	broad	narrow	common
Lesser Whitethroat	0.998	0.002	several	shrubs	insectivorous	insect. other	Sahel-Sudan W	long-dist	interquartile	broad	narrow	common less
Little Grebe	1.008	0.008	wetlands	reeds	carnivorous	no	Westpalearctic	short-dist	upper quartile	narrow	narrow	common
Long-tailed Tit	1.009	0.003	forests	trees	insectivorous	insect. forest	Germany W	resident	interquartile	broad	narrow	common
Mallard	0.995	0.002	wetlands	ground-level	omnivorous	no	Westpalearctic	short-dist	interquartile	narrow	broad	common
Marsh Tit	1.004	0.002	forests	trees	insectivorous	insect. forest	Germany	resident	interquartile	narrow	narrow	common
Marsh Warbler	0.980	0.002	open habitat	ground-level	insectivorous	insect. other insect.	Sub-Sahel W	long-dist	interquartile	broad	narrow	common less
Meadow Pipit	0.948	0.006	farmland	ground-level	insectivorous	farmland	Westpalearctic	short-dist	lower quartile	broad	narrow	common less
Middle Spotted Woodpecker	1.020	0.005	forests	trees	insectivorous	insect. forest	Germany W	resident	upper quartile	broad	narrow	common
Mistle Thrush	0.995	0.002	forests	trees	invertebrates	no	Westpalearctic	short-dist	interquartile	broad	narrow	common
Northern House- martin	0.980	0.003	settlements	buildings	insectivorous	insect. other	Afrotropics (indifferent)	long-dist	interquartile	broad	narrow	common
Northern Lapwing	0.916	0.004	farmland	ground-level	invertebrates	no	Atlantic W	short-dist	lower quartile	narrow	narrow	common less
Red Kite	1.004	0.004	farmland	trees	carnivorous	no	Mediterranean	short-dist	upper quartile	broad	broad	common
Red-backed Shrike	0.992	0.002	farmland	shrubs	insectivorous	insect. farmland	Sub-Sahel W	long-dist	interquartile	narrow	narrow	common
Reed Bunting	0.989	0.002	wetlands	reeds	insectivorous	insect. other	Westpalearctic	short-dist	lower quartile	broad	broad	common less
Sedge Warbler	1.059	0.005	wetlands	reeds	insectivorous	insect. other	Sahel-Sudan	long-dist	lower quartile	broad	narrow	common
Short-toed	1.007	0.002	forests	trees	insectivorous	insect. forest	Germany	resident	upper quartile	broad	narrow	common

Treecreeper													
Song Thrush	1.002	0.001	forests	trees	invertebrates	no	W	Westpalearctic	short-dist	lower quartile	broad	narrow	abundant
Spotted Flycatcher	0.982	0.003	several	trees	insectivorous	insect. other	Afrotropics (indifferent)	long-dist	interquartile	broad	narrow	common	
Stock Dove	1.029	0.003	forests	trees	granivorous	no	W	Westpalearctic	short-dist	interquartile	broad	narrow	common
Tree Pipit	0.969	0.002	forests	ground-level	insectivorous	insect. forest	Sahel-Sudan	long-dist	lower quartile	broad	narrow	common	
Whinchat	0.955	0.005	farmland	ground-level	insectivorous	insect. farmland	Afrotropics (indifferent)	long-dist	lower quartile	narrow	narrow	less common	
White Wagtail	0.983	0.002	settlements	buildings	insectivorous	insect. other	W	Mediterranean	short-dist	interquartile	broad	narrow	common
Willow Tit	0.995	0.004	forests	trees	insectivorous	insect. forest	Germany	resident	lower quartile	broad	narrow	common	
Willow Warbler	0.970	0.001	forests	ground-level	insectivorous	insect. forest	Sub-Sahel	long-dist	lower quartile	broad	narrow	common	
Eurasian Wren	1.002	0.001	forests	shrubs	insectivorous	insect. forest	W	Westpalearctic	short-dist	interquartile	broad	narrow	abundant less
Wood Lark	1.012	0.002	several	ground-level	insectivorous	insect. other	Atlantic	short-dist	upper quartile	broad	narrow	common	
Wood Nuthatch	1.016	0.001	forests	trees	insectivorous	insect. forest	Germany	resident	interquartile	broad	narrow	abundant	
Wood Warbler	0.980	0.002	forests	ground-level	insectivorous	insect. forest	Sub-Sahel	long-dist	lower quartile	broad	narrow	common	
Yellow Wagtail	0.994	0.003	farmland	ground-level	insectivorous	insect. farmland	Sahel-Sudan	long-dist	interquartile	broad	narrow	common	
Yellowhammer	0.993	0.001	farmland	ground-level	insectivorous	insect. farmland	W	Westpalearctic	short-dist	lower quartile	broad	broad	abundant

Table S2: Trend (% change) for the period 1990–2018 with associated standard errors and p-values for all traits considered in the MSI analyses, here for a reduced species set of 91 species, excluding Common Pheasant and Feral Pigeon (cf. text). “% change 2006” gives the short-term trend (% change) for the past 12 years 2006–2018. p (changepoint) is the p value that denotes if the 2010 changepoint is significant or not significant (n.s.). Changes in trend magnitude compared to the analysis with the full species dataset (Table 1, main manuscript) are marked in bold.

Functional group	Trait class (n)	% change	SE	p	% change 2006	SE	p	p (changepoint)
Habitat	farmland (18)	-32.0	4.263	p<0.01	-17.0	4.273	p<0.01	n.s.
Habitat	forests (34)	7.1	3.145	p<0.05	13.3	3.05	p<0.01	p<0.01
Habitat	settlements (11)	-22.7	2.566	p<0.01	-2.5	2.611	n.s.	n.s.
Habitat	several (16)	5.0	3.65	n.s.	3.3	3.655	n.s.	n.s.
Habitat	wetlands (9)	50.6	16.918	p<0.01	10.8	15.919	n.s.	n.s.
Nest site	buildings (8)	-13.4	3.337	p<0.01	9.2	3.414	p<0.01	p<0.01
Nest site	ground-level (21)	-13.8	5.011	p<0.01	-14.3	5.313	p<0.01	n.s.
Nest site	shrubs (10)	-4.8	3.175	n.s.	-5.5	3.182	n.s.	n.s.
Nest site	trees (43)	1.4	2.701	n.s.	10.1	2.631	p<0.01	p<0.01
Diet	granivorous (12)	-21.1	3.125	p<0.01	0.5	3.075	n.s.	p<0.01
Diet	insectivorous (57)	3.0	2.962	n.s.	-0.1	2.865	n.s.	n.s.
Diet	abundant (21)	-27.8	2.724	p<0.01	5.5	2.669	p<0.05	p<0.01
Diet	omnivorous (8)	-9.5	7.3	n.s.	-0.4	7.278	n.s.	n.s.
Insectivores	insect. farmland (9)	4.4	12.257	n.s.	-28.8	12.736	p<0.05	n.s.
Insectivores	insect. forest (27)	4.4	3.451	n.s.	9.5	3.175	p<0.01	p<0.05
Insectivores	insect. other (21)	0.8	4.924	n.s.	-2.3	4.958	n.s.	n.s.
Migration	long-dist (25)	-14.2	3.78	p<0.01	-13.5	3.811	p<0.01	n.s.
Migration	resident (26)	9.2	4.159	p<0.05	11.1	4.104	p<0.01	n.s.
Migration	short-dist (40)	-3.7	3.657	n.s.	4.9	3.476	n.s.	p<0.05
Wintering	Germany (26)	9.2	4.144	p<0.05	11.1	4.004	p<0.01	n.s.
Wintering	Sahel-Sudan (11)	21.6	10.537	p<0.05	-16.0	10.223	n.s.	p<0.05
Wintering	Sub-Sahel (9)	-32.7	2.496	p<0.01	-12.6	2.772	p<0.01	n.s.
Wintering	W Mediterranean (10)	-10.8	6.653	n.s.	10.2	6.16	n.s.	p<0.05
Wintering	W Westpaleartic (27)	-5.5	3.868	n.s.	3.1	3.78	n.s.	p<0.05
Diet breadth	broad (19)	21.6	7.497	p<0.01	6.5	7.238	n.s.	n.s.
Diet breadth	narrow (72)	-9.1	2.035	p<0.01	0.1	1.999	n.s.	n.s.
Habitat breadth	broad (74)	2.2	2.021	n.s.	6.9	1.961	p<0.01	p<0.01
Habitat breadth	narrow (17)	-24.6	6.336	p<0.01	-20.6	6.457	p<0.01	n.s.
Population size	abundant (21)	3.7	1.627	p<0.05	8.9	1.55	p<0.01	p<0.01
Population size	common (47)	-11.3	1.77	p<0.01	1.8	1.714	n.s.	p<0.01
Population size	less common (23)	6.8	8.052	n.s.	-9.0	8.083	n.s.	n.s.
Temperature preference	interquartile (44)	-9.3	2.295	p<0.01	0.5	2.184	n.s.	p<0.05
Temperature preference	lower quartile (23)	-13.6	3.606	p<0.01	0.6	3.555	n.s.	n.s.
Temperature preference	upper quartile (24)	20.6	7.565	p<0.01	3.3	7.145	n.s.	n.s.

Table S3: Mean yearly change and trends for the period 1990–2018 and for the past 12 years 2006–2018 (last years) with associated standard errors for all traits considered in the MSI analyses.

Functional group	Trait class (n)	mean yearly change (%)	overall trend	SE overall trend	mean yearly change 2006-2018 (%)	trend last years	SE trend last years
Habitat	farmland (18)	-1.79	0.9821	0.0016	-2.13	0.9787	0.0059
Habitat	forests (34)	0.16	1.0016	8.00E-04	1.31	1.0131	0.0033
Habitat	settlements (11)	-1.09	0.9891	9.00E-04	-0.25	0.9975	0.0036
Habitat	several (16)	-0.18	0.9982	9.00E-04	0.41	1.0041	0.0036
Habitat	wetlands (9)	1.87	1.0187	0.003	0.54	1.0054	0.0113
Nest site	buildings (8)	-0.66	0.9934	0.001	1.12	1.0112	0.0045
Nest site	ground-level (21)	-0.64	0.9936	0.0016	-1.5	0.985	0.0059
Nest site	shrubs (10)	-0.71	0.9929	9.00E-04	-0.55	0.9945	0.0034
Nest site	trees (43)	-0.12	0.9988	7.00E-04	1.07	1.0107	0.0028
Diet	granivorous (12)	-1.3	0.987	0.001	0.18	1.0018	0.0043
Diet	insectivorous (57)	-0.06	0.9994	7.00E-04	0	1	0.0029
Diet	invertebrates (8)	-1.47	0.9853	0.001	0.92	1.0092	0.0041
Diet	omnivorous (8)	-0.3	0.997	0.002	-0.08	0.9992	0.0088
Insectivores	insect. farmland (9)	-0.47	0.9953	0.003	-2.37	0.9763	0.0113
Insectivores	insect. forest (27)	0.11	1.0011	9.00E-04	0.91	1.0091	0.0033
Insectivores	insect. other (21)	-0.1	0.999	0.0013	-0.17	0.9983	0.005
Migration	long-dist (25)	-0.74	0.9926	0.0011	-1.38	0.9862	0.0044
Migration	resident (26)	0.25	1.0025	0.001	1.13	1.0113	0.0041
Migration	short-dist (40)	-0.35	0.9965	0.001	0.45	1.0045	0.0038
Wintering	Germany (26)	0.24	1.0024	0.001	1.14	1.0114	0.004
Wintering	Sahel-Sudan (11)	0.3	1.003	0.0022	-1.18	0.9882	0.0083
Wintering	Sub-Sahel (9)	-1.6	0.984	0.001	-1.56	0.9844	0.004
Wintering	W Mediterranean (10)	-0.81	0.9919	0.0019	1.02	1.0102	0.0074
Wintering	W Westpaleartic (27)	-0.4	0.996	0.0011	0.3	1.003	0.0041
Diet breadth	broad (19)	0.4	1.004	0.0016	0.6	1.006	0.0063
Diet breadth	narrow (72)	-0.47	0.9953	6.00E-04	0	1	0.0023
Habitat breadth	broad (74)	-0.1	0.999	6.00E-04	0.7	1.007	0.0021
Habitat breadth	narrow (17)	-1.12	0.9888	0.0021	-2.35	0.9765	0.008
Population size	abundant (21)	-0.13	0.9987	4.00E-04	0.9	1.009	0.0016
Population size	common (47)	-0.61	0.9939	5.00E-04	0.33	1.0033	0.0021
Population size	less common (23)	0.21	1.0021	0.002	-1.04	0.9896	0.0076
Temperature preference	interquartile (44)	-0.47	0.9953	7.00E-04	0.08	1.0008	0.0025
Temperature preference	lower quartile (23)	-0.57	0.9943	0.0011	0.12	1.0012	0.0044
Temperature preference	upper quartile (24)	0.32	1.0032	0.0016	0.16	1.0016	0.0061