

Ecography

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Supplementary material

See next page.

Table S1. Table of 12 life-history traits for 52 bird species. See Table 1 for trait and category codes.

Abbrev.	Species name	Trend	Natio	Regio	Biog	Forag	Diet	Nest	Home	Clutch	Mass	Migr	Date
COLPAL	<i>Columba palumbus</i>	1	1	3	2	2	3	2	3	1	4	2	3
STRTUR	<i>Streptopelia turtur</i>	3	2	1	2	2	3	3	3	1	4	3	5
CUCCAN	<i>Cuculus canorus</i>	2	1	1	2	4	1	4	3	4	4	3	5
UPUEPO	<i>Upupa epops</i>	3	3	2	1	1	1	1	3	4	4	3	2
JYNTOR	<i>Jynx torquilla</i>	3	3	2	1	1	1	1	2	4	3	3	5
PICVIR	<i>Picus viridis</i>	3	1	1	2	1	1	1	3	3	4	1	3
DENMAJ	<i>Dendrocopos major</i>	1	1	1	2	5	1	1	3	3	4	1	2
DENMIN	<i>Dendrocopos minor</i>	1	2	2	2	5	1	1	3	3	2	1	3
ALAARV	<i>Alauda arvensis</i>	3	1	2	2	2	2	4	1	1	3	2	2
LULARB	<i>Lullula arborea</i>	3	3	3	1	2	1	4	2	2	3	1	1
ANTCAM	<i>Anthus campestris</i>	3	3	3	1	2	1	4	3	3	3	3	5
ANTPRA	<i>Anthus pratensis</i>	2	3	3	3	2	1	4	2	2	2	2	4
ANTTRI	<i>Anthus trivialis</i>	2	2	1	3	2	1	4	2	3	2	3	3
MOTALB	<i>Motacilla alba</i>	1	1	1	2	2	1	1	2	3	2	3	1
TROTRO	<i>Troglodytes troglodytes</i>	1	1	1	2	2	1	4	1	3	1	1	4
PRUMOD	<i>Prunella modularis</i>	1	2	1	3	2	1	4	1	2	2	1	3
ERIRUB	<i>Erythacus rubecula</i>	1	1	1	2	3	2	4	2	3	2	1	3
LUSMEG	<i>Luscinia megarhynchos</i>	2	2	2	2	3	1	4	2	2	2	3	3
PHOPHO	<i>Phoenicurus phoenicurus</i>	3	2	3	2	4	1	1	2	4	1	3	4
OENOEEN	<i>Oenanthe oenanthe</i>	3	3	3	3	2	1	4	2	3	3	3	2
SAXTOR	<i>Saxicola torquata</i>	1	1	1	2	2	1	4	1	3	2	1	1
TURMER	<i>Turdus merula</i>	1	1	1	2	1	2	3	2	2	4	1	1
TURPHI	<i>Turdus philomelos</i>	1	2	1	3	1	2	2	2	2	4	2	1
TURVIS	<i>Turdus viscivorus</i>	1	2	2	3	1	2	2	2	2	4	1	1
SYLATR	<i>Sylvia atricapilla</i>	1	1	1	2	3	2	3	1	2	2	2	2
SYLCOM	<i>Sylvia communis</i>	1	2	2	3	3	1	3	1	2	1	3	4
SYLUND	<i>Sylvia undata</i>	3	3	3	1	3	1	3	1	2	1	1	2
LOCNAE	<i>Locustella naevia</i>	2	3	3	3	3	1	4	2	3	1	3	3
HIPPOL	<i>Hippolais polyglotta</i>	1	2	1	1	3	1	3	1	2	1	3	5
PHYBON	<i>Phylloscopus bonelli</i>	2	3	3	1	4	1	4	1	3	1	3	4
PHYCOL	<i>Phylloscopus collybita</i>	1	1	1	2	4	1	4	1	3	1	2	2
REGIGN	<i>Regulus ignicapillus</i>	2	2	2	2	4	1	2	1	4	1	1	4
MUSSTR	<i>Muscicapa striata</i>	3	2	2	2	4	1	1	1	2	1	3	5
PARCAE	<i>Parus caeruleus</i>	1	1	1	2	4	1	1	1	4	1	1	2
PARMAJ	<i>Parus major</i>	1	1	1	2	4	1	1	1	4	2	1	2
PARCRI	<i>Parus cristatus</i>	2	2	2	2	4	2	1	2	3	1	1	2
AEGCAU	<i>Aegithalus caudatus</i>	1	1	1	2	3	1	3	1	4	1	1	1
SITEUR	<i>Sitta europea</i>	2	2	1	3	5	1	1	2	4	2	1	2
CERBRA	<i>Certhia brachydactyla</i>	1	1	1	2	5	1	1	1	3	1	1	2
LANCOL	<i>Lanius collurio</i>	3	3	2	3	2	1	3	2	3	3	3	5
CORCOR	<i>Corvus corone</i>	1	1	1	2	2	2	2	3	2	4	1	2
GARGLA	<i>Garrulus glandarius</i>	1	1	1	2	3	2	2	3	2	4	1	1
STUVUL	<i>Sturnus vulgaris</i>	2	1	1	2	1	2	1	2	2	4	1	2
ORIORI	<i>Oriolus oriolus</i>	2	2	2	2	4	1	1	3	1	4	3	5
FRICOE	<i>Fringilla coelebs</i>	2	1	1	2	4	2	2	1	2	2	1	2
CARCAN	<i>Carduelis cannabina</i>	2	1	1	2	2	3	3	2	2	2	2	2
CARCAR	<i>Carduelis carduelis</i>	1	1	1	2	3	3	2	1	3	2	2	3
CARCHL	<i>Carduelis chloris</i>	2	1	1	2	3	3	3	2	3	3	1	2
SERSER	<i>Serinus serinus</i>	2	1	1	1	2	3	2	1	1	1	2	4
PYRPYR	<i>Pyrrhula pyrrhula</i>	2	2	3	3	3	3	2	2	2	2	1	3
EMBCIT	<i>Emberiza citrinella</i>	3	2	3	3	2	2	4	1	1	3	1	4
EMBCIR	<i>Emberiza cirius</i>	1	2	1	1	2	2	4	1	1	3	1	4

Table S2. Table of 12 life-history traits for 45 carabid beetle species. See Table 2 for trait and category codes.

Abbrev.	Species name	Trend	Europ	Regio	Biog	Daily	Diet	Over	Color	Breed	Size	Wing	Perio
CARPUR	<i>Carabus purpurascens</i>	1	1	1	1	3	2	2	1	3	5	1	3
CARPRO	<i>Carabus problematicus</i>	1	1	4	3	3	2	2	1	3	5	1	2
CARNEM	<i>Carabus nemoralis</i>	2	2	2	3	3	2	2	2	1	5	1	1
LEISPI	<i>Leistus spinibarbis</i>	3	2	2	1	2	1	2	2	3	3	3	1
LEIFUL	<i>Leistus fulvibarbis</i>	1	1	1	1	3	1	2	2	3	2	3	1
NEBSAL	<i>Nebria salina</i>	2	1	1	1	3	2	2	1	3	4	3	1
NEBBRE	<i>Nebria brevicollis</i>	1	1	1	2	3	2	2	1	3	4	3	1
NOTBIG	<i>Notiophilus biguttatus</i>	1	1	3	2	1	1	2	2	2	1	2	2
NOTRUF	<i>Notiophilus rufipes</i>	2	1	4	2	1	1	1	2	2	1	2	1
NOTQUA	<i>Notiophilus 4-punctatus</i>	2	1	2	1	1	1	2	2	2	1	2	2
CLIFOS	<i>Clivina fossor</i>	2	1	2	2	2	2	2	1	1	2	2	1
DYSGLO	<i>Dyschirius globosus</i>	2	1	3	2	1	2	1	1	1	1	2	1
TREQUA	<i>Trechus quadristriatus</i>	2	1	1	2	3	1	2	1	3	1	2	3
BEMDOR	<i>Bembidion doris</i>	2	2	4	3	1	2	1	1	1	1	3	2
STOPUM	<i>Stomis pumicatus</i>	2	1	3	2	3	2	1	1	1	2	2	1
PTEVER	<i>Pterostichus vernalis</i>	1	1	2	2	3	2	1	1	1	2	2	1
POECUP	<i>Poecilus cupreus</i>	2	2	1	2	1	2	2	2	1	5	3	1
POEVER	<i>Poecilus versicolor</i>	2	1	4	3	1	2	1	2	2	4	3	2
POEKUG	<i>Poecilus kugelanni</i>	3	2	4	1	1	2	1	2	1	5	3	1
PTESTR	<i>Pterostichus strenuus</i>	1	1	3	2	3	2	1	1	1	2	2	1
PTEANT	<i>Pterostichus anthracinus</i>	2	2	2	2	3	2	1	1	1	4	2	1
PTENIG	<i>Pterostichus nigrita</i>	1	1	3	2	3	2	2	1	1	4	2	1
PTEMAD	<i>Pterostichus madidus</i>	1	1	1	1	3	3	2	1	3	5	1	3
AGOPER	<i>Agonum permoestum</i>	1	1	2	2	3	2	1	1	1	3	3	1
OXYOBS	<i>Oxypselaphus obscurus</i>	1	1	3	3	3	2	2	1	2	1	2	2
SYNVIV	<i>Synuchus vivalis</i>	3	2	4	2	3	3	2	1	3	2	2	2
PLARUF	<i>Platyderus ruficollis</i>	2	2	2	1	3	2	2	1	1	2	1	2
CALCIN	<i>Calathus cinctus</i>	3	2	4	2	3	2	2	1	3	2	2	3
CALMEL	<i>Calathus melanocephalus</i>	2	1	4	2	3	2	2	1	3	2	2	3
CALERR	<i>Calathus erratus</i>	3	2	4	3	3	2	2	1	3	3	2	3
CALFUS	<i>Calathus fuscipes</i>	2	1	3	2	3	2	2	1	3	4	2	3
AMAKUL	<i>Amara kulti</i>	3	2	4	2	1	3	1	2	1	3	3	2
AMACOM	<i>Amara communis</i>	1	1	4	3	1	3	2	2	1	2	3	1
AMALUN	<i>Amara lunicollis</i>	1	1	4	3	1	3	1	2	2	2	3	1
AMAAEN	<i>Amara aenea</i>	2	1	1	2	1	3	1	2	1	2	3	1
ANIBIN	<i>Anisodactylus binotatus</i>	2	1	3	2	2	3	1	1	1	4	3	1
PSEERUF	<i>Pseudophonus rufipes</i>	2	1	1	2	3	3	2	1	2	5	3	3
HARAFF	<i>Harpalus affinis</i>	1	1	2	2	3	3	2	2	1	4	3	2
HARRUB	<i>Harpalus rubripes</i>	2	2	3	2	2	3	2	1	2	4	3	1
HARLAT	<i>Harpalus latus</i>	2	1	4	3	1	3	2	1	2	3	3	2
HARRUF	<i>Harpalus rufipalpis</i>	3	2	4	2	1	3	1	1	2	3	3	2
HARTAR	<i>Harpalus tardus</i>	2	1	3	2	1	3	1	1	2	3	3	2
BADMER	<i>Badister meridionalis</i>	1	2	3	2	2	2	2	1	1	2	3	1
SYNFOV	<i>Syntomus foveatus</i>	2	1	3	2	1	2	1	1	1	1	2	1
DRYDEN	<i>Drypta dentata</i>	2	1	3	1	2	2	1	2	3	2	3	3

Table S3. Table of 12 life-history traits for 42 butterfly species. See Table 3 for trait and category codes.

Abbrev.	Species name	Trend	Natio	Regio	Biog	Poly	Host	Over	Dens	Eggs	Wing	Mobil	Perio
PYRMAL	<i>Pyrgus malvae</i>	3	3	3	1	3	2	3	2	1	1	1	3
ERYTAG	<i>Erynnis tages</i>	2	2	2	2	3	2	2	2	1	1	1	3
HETMOR	<i>Heteropterus morpheus</i>	4	3	2	3	1	1	2	3	2	2	1	1
THYSYL	<i>Thymelicus sylvestris</i>	3	2	2	2	3	1	1	3	2	1	1	1
THYLIN	<i>Thymelicus lineola</i>	3	2	2	2	3	1	1	3	2	1	2	1
OCHVEN	<i>Ochlodes venata</i>	2	1	1	2	3	1	2	2	1	1	2	1
IPHPOD	<i>Iphiclides podalirius</i>	3	2	2	3	3	3	3	1	2	4	2	3
PIERAP	<i>Pieris rapae</i>	1	1	2	2	4	2	3	2	4	4	3	4
PIENAP	<i>Pieris napi</i>	1	1	2	2	3	2	3	2	3	3	2	4
COLCRO	<i>Colias croceus</i>	2	1	1	1	3	2	2	1	4	4	3	4
GONRHA	<i>Gonepteryx rhamni</i>	1	1	1	2	1	3	3	1	4	4	3	1
NEOQUE	<i>Neozephyrus quercus</i>	3	2	3	2	2	3	1	3	1	2	1	2
SATILI	<i>Satyrium ilicis</i>	3	2	3	1	2	3	1	2	1	2	1	1
CALRUB	<i>Callophrys rubi</i>	2	1	2	2	4	2	3	2	2	1	2	1
LYCPHL	<i>Lycæna phleas</i>	1	1	1	2	2	2	2	2	2	1	2	4
LYCALC	<i>Lycæna alciphron</i>	3	3	3	1	2	2	2	1	3	2	2	1
LAMBOE	<i>Lampides boeticus</i>	4	3	2	1	3	2	3	1	2	2	3	4
CELARG	<i>Celastrina argiolus</i>	2	1	1	2	4	3	3	1	2	1	2	3
EVEARG	<i>Everes argiades</i>	4	3	2	3	3	2	2	2	2	1	2	4
ARIAGE	<i>Aricia agestis</i>	2	2	1	1	4	2	2	3	3	1	2	4
POLICA	<i>Polyommatus icarus</i>	1	1	1	2	3	2	2	3	3	2	2	4
LIMRED	<i>Limenitis reducta</i>	3	3	2	1	1	3	2	2	2	4	2	3
VANCAR	<i>Vanessa cardui</i>	1	1	2	2	4	2	3	1	4	4	3	3
VANATA	<i>Vanessa atalanta</i>	1	1	1	2	1	2	3	1	4	4	3	3
ARGPAP	<i>Argynnis paphia</i>	2	2	2	2	2	2	1	1	4	4	2	2
CLOSEL	<i>Clossiana selene</i>	4	3	3	3	2	2	2	3	3	3	1	3
MELCIN	<i>Melitæa cinxia</i>	3	2	1	1	1	2	2	2	3	2	1	3
MELATH	<i>Mellicta athalia</i>	3	2	3	2	1	2	2	3	3	2	1	1
EUPAUR	<i>Euphydryas aurinia</i>	3	2	2	1	3	2	2	3	4	2	1	1
MELGAL	<i>Melanargia galathea</i>	2	1	1	3	3	1	1	3	1	4	1	1
BRICIR	<i>Brintesia circe</i>	3	3	3	1	3	1	1	1	3	4	2	2
AREARE	<i>Arethusana arethusa</i>	4	3	3	1	3	1	1	2	3	3	1	2
HIPSEM	<i>Hipparchia semele</i>	4	3	3	2	3	1	2	2	4	4	2	2
HIPSTA	<i>Hipparchia statilinus</i>	4	3	3	1	3	1	1	2	2	3	1	2
MINDRY	<i>Minois dryas</i>	4	3	2	3	3	1	1	2	2	3	1	2
MANJUR	<i>Maniola jurtina</i>	1	1	1	2	3	1	2	3	3	3	2	2
PYRTIT	<i>Pyronia tithonus</i>	1	1	1	1	3	1	2	3	3	2	1	2
COEPAM	<i>Coenonympha pamphilus</i>	1	1	1	2	3	1	2	2	2	2	1	4
COEARC	<i>Coenonympha arcania</i>	2	2	3	3	3	1	2	3	1	2	1	1
COEOED	<i>Coenonympha oedippus</i>	4	3	2	3	1	1	2	3	1	3	1	1
PARAEG	<i>Pararge aegeria</i>	1	1	1	2	3	1	3	2	2	3	2	4
LASMEG	<i>Lasiommata megera</i>	2	1	3	2	3	1	2	1	2	3	2	4