

Ecography

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2020. Connecting species' geographical
distributions to environmental variables: range
maps versus observed points of occurrence. –
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Supplementary material

Appendix 1

Supplementary Material Appendix Table A1. Data downloaded from Global Biodiversity Information Facility, 16 January – 4 May 2018. Each file can be accessed at <https://www.gbif.org/occurrence/download/<GBIF ID as indicated in the first column>>. Each file was generated by searching for the taxa indicated. Taxonomy of species downloaded from GBIF was reconciled with IOC 7.3 taxonomy (Gill and Donsker 2017); this principally involved updating recent species' genera changes that had yet to be incorporated in all data from GBIF. See text for how data were cleaned.

GBIF ID	Taxon (GBIF search field)
0001404-180412121330197	<i>Acryllium vulturinum</i>
0001407-180412121330197	<i>Afropavo congensis</i>
0001410-180412121330197	<i>Alectoris</i>
0001415-180412121330197	<i>Ammoperdix</i>
0001413-180412121330197	<i>Perdix</i>
0001416-180412121330197	<i>Arborophila</i>
0001417-180412121330197	<i>Argusianus argus</i>
0002656-180412121330197	<i>Argusianus argus</i>
0002659-180412121330197	<i>Bambusicola</i>
0002667-180412121330197	<i>Chrysolophus</i>
0002663-180412121330197	<i>Callipepla</i>
0002665-180412121330197	<i>Bonasa</i>
0002670-180412121330197	<i>Colinus</i>
0002672-180412121330197	<i>Coturnix</i>

0003685-180412121330197	<i>Excalfactoria chinensis</i>
0003686-180412121330197	<i>Excalfactoria adansonii</i>
0003688-180412121330197	<i>Synoicus</i>
0003814-180412121330197	<i>Megapodius</i>
0003818-180412121330197	<i>Megapodiidae</i>
0003834-180412121330197	<i>Numididae</i>
0003830-180412121330197	<i>Cracidae</i>
0004944-180412121330197	<i>Cyrtonyx</i>
0004945-180412121330197	<i>Dactylortyx</i>
0004946-180412121330197	<i>Dendrortyx</i>
0004950-180412121330197	<i>Odontophorus</i>
0006271-180412121330197	<i>Philortyx, Oreortyx, Ptilopachus, Caloperdix, Catreus, Centrocerus</i>
0006279-180412121330197	<i>Gallus, Caloperdix, Catreus, Centrocerus</i>
0006312-180412121330197	<i>Dendragapus, Falcipennis, Francolinus</i>
0006316-180412121330197	<i>Galloperdix, Haematortyx, Ithaginis cruentus, Lagopus, Lerwa lerwa, Lophophorus, Lophura, Lyrurus</i>
0006355-180412121330197	<i>Peliperdix lathamii, Peliperdix coqui, Peliperdix albogularis, Peliperdix schlegelii, Scleroptila, Pternistis, Pternistis achantensis, Pternistis bicalcaratus, Pternistis swainsonii, Pternistis swierstrai, Pternistis afer, Pternistis icterorhynchus, Pternistis capensis, Pternistis leucoscepus</i>
0006760-180412121330197	<i>Tetrastes, Tetrastes sewerzowi, Tetrao, Lyrurus</i>
0007604-180412121330197	<i>Pternistis erckelii, Francolinus erckelii, Pternistis griseostriatus, Francolinus griseostriatus, Pternistis hartlaubi, Francolinus hartlaubi,</i>

	<i>Pternistis harwoodi, Francolinus harwoodi, Pternistis hildebrandti, Francolinus hildebrandti, Francolinus johnstoni, Pternistis icterorhynchus, Francolinus icterorhynchus, Pternistis jacksoni, Francolinus jacksoni</i>
0007606-180412121330197	<i>Pternistis leucoscepus, Francolinus leucoscepus, Pternistis natalensis, Francolinus natalensis, Pternistis nobilis, Francolinus nobilis, Pternistis ochropectus, Francolinus ochropectus, Pternistis rufopictus, Francolinus rufopictus</i>
0007618-180412121330197	<i>Francolinus gariepensis, Francolinus levalliantoides, Francolinus lorti, Scleroptila levalliantoides, Scleroptila gutturalis</i>
0008831-180412121330197	<i>Crossoptilon, Galloperdix, Lagopus, Lerwa Lophophorus, Lophura, Gennaesus, Hierophasis, Houppifer, Diardigallus, Lobiophasis, Tetrao lagopus, Tetrao mutus, Phasianus crossoptilon, Perdix lerwa, Phasianus nyctemerus, Phasianus erythroptalmus, Alectrophasis pyronotus, Phasianus rufus</i>
0008836-180412121330197	<i>Margaroperdix, Melanoperdix niger, Cryptonyx niger, Meleagris, Agriocharis ocellata</i>
0009335-180412121330197	<i>Haematortyx, Ithaginis, Pavo, Perdicula, Polyplectron, Pucrasia, Rhizothera, Rollulus, Phasianus cruentus, Coturnix argoondah, Coturnix erythrorhyncha, Cryptoplectron, Chalcurus chalcurus, Satyra temminckii, Phasianus rouloul</i>
0009340-180412121330197	<i>Syrmaticus, Tetraogallus, Tetraophasis, Tragopan, Tympanuchus, Phasianus ellioti, Calophasis, Phasianus reevesii, Tetrao caucasicus, Tetrao caspius, Phasianus melanocephalus, Ceriornis blythii, Satyra temminckii, Ceriornis, Tetrao phasianellus, Tetrao cupido, Cupidonia cupido</i>
0010298-180412121330197	<i>Phasianus</i>

0010860-180412121330197	<i>Pipile cumanensis</i> , <i>Crax cumanensis</i>
0002247-180508205500799	<i>Rhynchortyx cinctus</i> , <i>Anurophasis monorhonyx</i> , <i>Arborophila charltonii</i> , <i>Arborophila rubrirostris</i> , <i>Ophrysia superciliosa</i> , <i>Rheinardia ocellata</i> , <i>Xenoperdix udzungwensis</i>

Reference

Gill, F. and Donsker D. (eds). 2017. IOC World Bird List (V7.3) < <https://www.worldbirdnames.org/ioc-lists/crossref/>>

Supplementary Material Appendix Table A2. Correlations (all terrestrial/all terrestrial less Antarctica) among the four BioClim2 variables (Fick and Hijmans 2017) examined in this study. Annual Mean Temperature is the mean of all weekly mean temperatures, and each weekly mean temperature is the mean of the weekly maximum and minimum temperatures. Mean Diurnal Range is the mean over the whole year of the weekly diurnal temperature ranges. Each weekly diurnal range is the difference between that week's maximum and minimum temperature. Annual Precipitation is the sum of all 12 monthly precipitation estimates. Precipitation Seasonality is the standard deviation of the weekly precipitation estimates expressed as a percentage of the mean of those estimates (i.e., the coefficient of variation based on monthly values). All terrestrial/all terrestrial less Antarctica N's = 808,053/584,905 10' cells.

	Annual Mean Temperature	Mean Diurnal Range	Annual Precipitation	Precipitation Seasonality
Annual Mean Temperature	--	--	--	--
Mean Diurnal Range	0.62/0.49	--	--	--
Annual Precipitation	0.54/0.40	0.03/-0.24	--	--
Precipitation Seasonality	-0.38/0.33	0.04/0.49	-0.33/-0.15	--

Reference

Fick, S. E. and Hijmans, R. J. 2017. WorldClim 2: new 1-km spatial resolution climate surfaces for global land areas. – Intl. J. Climatol. 37: 4302-4315. <<http://worldclim.org/>> .