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Title: Local convergence of behavior across species

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Abstract: Behavior is a way for organisms to respond flexibly to the environmental conditions they encounter. Our own species occurs in a variety of habits, sharing these with a large number of other species, but it remains unclear to what degree a shared environment constrains behavior. Here, we show that foraging human populations and non-human mammal and bird species who live in a given environment show high levels of similarity in their foraging, reproductive, and social behavior. Our findings suggest that local conditions may select for similar behaviors in both humans and non-human animals.

One sentence summary: The foraging, reproductive, and social behavior of humans, non-human mammals, and birds is similar within similar environments.

Main Text:

Wherever they live, animals show diverse behaviors to cope with the many challenges they face, from foraging for food to finding shelter and protection and meeting with mates for reproduction (1). In a given environment, a diversity of behavioral solutions might be expected given the differences in how animals experience and exploit their environment, in particular if species fill unique niches to reduce resource competition (2). At the same time, local ecological constraints might only permit a certain range of behaviors. In this case, species with similar behaviors would be expected to assemble in a given environment. Convergence of behavior to ecological conditions has been found among closely related species (3–5) and consistent influences of ecological conditions on evolutionary patterns across distantly-related taxonomic groups have been described for morphology (e.g., Bergman’s rule (6) or Allen’s rule (7)) or life history (8). Based on this interplay of competition and adaptation, we predict a limited subset of behaviors to exist at each locality, with similar behaviors found in similar environments around the world.

The role of ecological conditions in constraining behavioral variation is under particular debate for our own species, which has colonized essentially all terrestrial environments in the world. On the one hand, there is evidence that cultural processes are responsible for the large variation in behavior across societies (9) and that we humans build our own ecological niche (10). By influencing the local ecology, humans might also make it more difficult for species with similar behavior to co-exist (11). On the other hand, human behavioral ecology argues that, even if behavioral variation among societies primarily originates through cultural processes, the ecological constraints that influence behavior in other species generally also apply to our own species (12–14). We hence predict an interplay for humans, too. Different human societies might

acquire different behaviors through different paths, but specific behaviors will be present where they fit into the local environment (15, 16, 17, 18).

Here, we take a unifying perspective and scrutinize the central tenet of behavioral ecology that there are consistent and predictable adaptations to ecological conditions, which potentially operate across very distinct taxonomic groups. Specifically, we study whether the foraging, reproductive, and social behavior of humans, mammals (for ease of comparison, here and in the following we use the term mammal to refer to all species in the Class Mammalia excluding our own), and birds is more similar to the behavior of other species found in the same environment than to the behavior found in different environments.

We built our analysis around an ethnographic database providing data on the behavior of 339 human hunter-gatherer populations from around the world (19). Our focus is on small-scale subsistence-foraging human populations because these are generally tied to a more specific location. In addition, their reliance on acquiring food from the available local resources makes it more likely to detect ecological influences on behavior should they exist (20). For each of the human populations, we first identified all mammal and bird species that lived in the same location. We then identified 15 behavioral variables encoded in the human database for which closely comparative data existed for the non-human species (Tables S1-S3). We assigned the typically observed behavior to each species (because both the extent of and availability of data on behavioral variation within other species is limited) and computed average mammal and bird behavior at the different locations. We were thus able to analyze the association between human, mammal, and bird behavior across locations (Figure 1).

Our results show that foraging human populations and mammals and bird species who share a local environment converge in their foraging, reproductive, and social behaviors (Figure 2).

Specifically, for foraging behavior (also see Figure S5), we detected strong associations in diet composition, with (i) human populations relying more on hunting terrestrial vertebrates for food where a higher proportion of local mammals and birds rely on vertebrates and (ii) humans relying more on aquatic organisms where a higher proportion of local mammals and birds eat fish; (iii) in the reliance of humans on food storage and the proportion of the local mammals and birds that hoard food; (iv) in short-term movements to acquire resources, with human populations being central place foragers (which is usually associated with longer day ranges due to local resource depletion) where mammals have longer daily foraging trips (no bird data); (v) in long-term movements between resource locations, with humans moving longer distances between foraging locations where birds migrate longer distances (no mammal data); and in (vi) the total distribution area occupied by a human population and the local mammal and bird species.

For reproductive behavior (also see Figure S6), we found that (vii) global variation in the age of first reproduction is linked across humans, mammals, and birds; (viii) males are more likely to monopolize matings in certain places, with a higher proportion of human men being married to multiple women, more mammals living in unstable groups (providing monopolization potential (21)), and bird males investing more into their plumage to attract multiple females; (ix) where humans marry outside their group, mammals show longer breeding dispersal movements but birds show shorter ones; and (x) splits between mating partners are more likely in some areas, with divorce permitted in human populations and bird pairs more likely to split up each year.

For social behavior (also see Figure S7), our analyses revealed that (xi) the relative role of fathers contributing resources to offspring differed, where in locations in which human men provide a higher proportion of the diet for their family, males contribute to the feeding and

carrying of offspring in a higher proportion of mammal species and are the sole providers of parental care in a higher proportion of bird species; (xii) where humans live in higher densities, so do other mammals and birds; (xiii) in locations in which residential group sizes in humans are larger, social group sizes of mammals are larger and birds are more likely to forage in groups than solitary; and (xiv) where human populations have social classes, more mammals and birds have a social system with dominant breeders and subordinate non-breeding helpers.

We did not find consistent associations between humans, mammals, and birds for patrilocality, where males stay at and females move away from their place of birth.

Similarities in the behavior of humans, mammals, and birds appear to result from selection pressures of the local environment. First, associations across species decline when we include ecological variables as covariates to explain the variation in behavior (biomes, latitude, altitude, proximity to coast) (Figure 2, results with ecological controls), which is consistent with the argument that ecological conditions constrain behavior. Second, associations between the same ecological variables and behaviors are very similar across humans, mammals, and birds (Figure 3). Third, human behavior from one location matches that of animals found at another location with the same ecological characteristics (Figure 2, results for animals from ecologically similar areas), corroborating that associations arise from a consistent influence of ecological factors rather than spatial autocorrelation. Local convergence of behavior across species occurs in all environments and the associations are not the result of extreme behaviors in extreme environments (Figure S2, results with controls for coastal and (sub)arctic areas). In line with this evidence, while the associations in behavior across species are strongest when tested in the large world-wide sample, most associations are also present on a smaller scale when tested in an independent dataset of human populations in North America (Figure S4). Our results recapture

several of the previously described associations between specific ecological factors and individual human (22, 23) or non-human behavior (3–5), suggesting that combining findings from different taxonomic groups might lead to a deeper understanding of how ecology shapes behavior.

Overall, our results highlight that environmental conditions appear to constrain the behavior of humans and other animals in similar ways. While our findings cannot reveal the processes of adaptation and how ecology interacts with cultural transmission processes that shape behavior, they suggest that there generally tends to be a specific set of behavioral solutions to the environmental challenges at a given location that is shared by humans, mammals, and birds. This pervasive influence of ecology on behavior raises the question of whether the behavioral diversity of modern human populations still reflects local ecological conditions even though agriculture, market integration, and technology might modulate the response of behavior to local conditions.

References and Notes:

1. N. B. Davies, J. R. Krebs, S. A. West, *An Introduction to Behavioural Ecology* (John Wiley & Sons, Chichester, 2012).
2. M. S. Di Bitetti, C. D. De Angelo, Y. E. Di Blanco, A. Paviolo, Niche partitioning and species coexistence in a Neotropical felid assemblage. *Acta Oecologica*. **36**, 403–412 (2010).
3. P. H. Harvey, M. D. Pagel, *The Comparative Method in Evolutionary Biology* (Oxford university press Oxford, Oxford, 1991), vol. 239.
4. J. H. Crook, The evolution of social organisation and visual communication in the weaver

- birds (Ploceinae). *Behav. Suppl.*, 1–201 (1964).
5. D. R. Rubenstein, P. Abbot, *Comparative Social Evolution* (Cambridge University Press, Cambridge, UK., 2017).
 6. S. Meiri, T. Dayan, On the validity of Bergmann's rule. *J. Biogeogr.* **30**, 331–351 (2003).
 7. M. R. E. Symonds, G. J. Tattersall, Geographical variation in bill size across bird species provides evidence for Allen's rule. *Am. Nat.* **176**, 188–197 (2010).
 8. K. Healy, T. Guillaume, S. Finlay, A. Kane, S. B. A. Kelly, D. McClean, D. J. Kelly, I. Donohue, A. L. Jackson, N. Cooper, Ecology and mode-of-life explain lifespan variation in birds and mammals. *Proc. R. Soc. B Biol. Sci.* **281**, 20140298 (2014).
 9. S. Mathew, C. Perreault, Behavioural variation in 172 small-scale societies indicates that social learning is the main mode of human adaptation. *Proc. R. Soc. B Biol. Sci.* **282**, 20150061 (2015).
 10. J. Kendal, J. J. Tehrani, J. Odling-Smee, Human niche construction in interdisciplinary focus. *Philos. Trans. R. Soc. B Biol. Sci.* **366**, 785–792 (2011).
 11. N. L. Boivin, M. A. Zeder, D. Q. Fuller, A. Crowther, G. Larson, J. M. Erlandson, T. Denham, M. D. Petraglia, Ecological consequences of human niche construction: Examining long-term anthropogenic shaping of global species distributions. *Proc. Natl. Acad. Sci.* **113**, 6388–6396 (2016).
 12. M. Tallavaara, J. T. Eronen, M. Luoto, Productivity, biodiversity, and pathogens influence the global hunter-gatherer population density. *Proc. Natl. Acad. Sci.* **115**, 1232–1237 (2018).
 13. C. D. Forde, *Habitat, Economy and Society* (Methuen & Co., London, 1934).

14. B. Winterhalder, E. A. Smith, Analyzing adaptive strategies: Human behavioral ecology at twenty-five. *Evol. Anthropol. Issues, News, Rev.* **9**, 51–72 (2000).
15. V. V Venkataraman, T. S. Kraft, N. J. Dominy, K. M. Endicott, Hunter-gatherer residential mobility and the marginal value of rainforest patches. *Proc. Natl. Acad. Sci.* **114**, 3097–3102 (2017).
16. K. Hawkes, K. Hill, J. F. O’CONNELL, Why hunters gather: optimal foraging and the Ache of eastern Paraguay. *Am. Ethnol.* **9**, 379–398 (1982).
17. M. B. Mulder, Behavioural ecology in traditional societies. *Trends Ecol. Evol.* **3**, 260–264 (1988).
18. G. R. Brown, T. E. Dickins, R. Sear, K. N. Laland, Evolutionary accounts of human behavioural diversity. *Philos. Trans. R. Soc. B Biol. Sci.* **366**, 313–324 (2011).
19. L. Binford, *Constructing frames of reference: An Analytical Method for Archaeological Theory Building Using Ethnographic and Environmental Data Sets* (University of California Press, Berkeley, 2001).
20. J. Helm, The ecological approach in anthropology. *Am. J. Sociol.* **67**, 630–639 (1962).
21. T. H. Clutton-Brock, Review lecture: mammalian mating systems. *Proc. R. Soc. London. B. Biol. Sci.* **236**, 339–372 (1989).
22. R. L. Kelly, *The lifeways of Hunter-gatherers: The Foraging Spectrum* (Cambridge University Press, 2013).
23. R. B. Lee, I. DeVore, *Man the Hunter* (Routledge, 2017).
24. K. R. Kirby, R. D. Gray, S. J. Greenhill, F. M. Jordan, S. Gomes-Ng, H. J. Bibiko, D. E. Blasi, C. A. Botero, C. Bowern, C. R. Ember, D. Leehr, B. S. Low, J. McCarter, W.

- Divale, M. C. Gavin, D-PLACE: A global database of cultural, linguistic and environmental diversity. *PLoS One*. **11** (2016), doi:10.1371/journal.pone.0158391.
25. J. G. Jorgensen, *Western Indians: Comparative Environments, Languages, and Cultures of 172 Western American Indian Tribes* (W.H. Freeman and Company, San Francisco, 1980).
 26. K. Hill, Constructing frames of reference: An analytical method for archeological theory building using ethnographic and environmental data Sets . Lewis R. Binford. *J. Anthropol. Res.* **58**, 416–419 (2002).
 27. International Union for Conservation of Nature. *Digital Distribution Maps on The IUCN Red List of Threatened Species*. Version 2 (2015). Available at <https://www.iucnredlist.org/resources/spatial-data-download>
 28. BirdLife International and Handbook of the Birds of the World. *Bird species distribution maps of the world*. Version 6.0 (2016). Available at <http://datazone.birdlife.org/species/requestdis>
 29. H. Wilman, B. J., S. J., de L. R. C., R. M., J. W, EltonTraits 1.0: Species-level foraging attributes of the world ' s birds and mammals. *Ecology*. **95**, 2027 (2014).
 30. W. D. Kissling, L. Dalby, C. Fløjgaard, J. Lenoir, B. Sandel, C. Sandom, K. Trøjelsgaard, J. C. Svenning, Establishing macroecological trait datasets: Digitalization, extrapolation, and validation of diet preferences in terrestrial mammals worldwide. *Ecol. Evol.* **4**, 2913–2930 (2014).
 31. S. B. Vander Wall, Food hoarding in animals. *Food hoarding Anim.* (1990), doi:10.2307/5312.
 32. C. Carbone, G. Cowlshaw, N. J. B. Isaac, J. M. Rowcliffe, How far do animals go?

- Determinants of day range in mammals. *Am. Nat.* **165**, 290–297 (2005).
33. K. E. Jones, J. Bielby, M. Cardillo, S. A. Fritz, J. O'Dell, C. D. L. Orme, K. Safi, W. Sechrest, E. H. Boakes, C. Carbone, C. Connolly, M. J. Cutts, J. K. Foster, R. Grenyer, M. Habib, C. A. Plaster, S. A. Price, E. A. Rigby, J. Rist, A. Teacher, O. R. P. Bininda-Emonds, J. L. Gittleman, G. M. Mace, A. Purvis, PanTHERIA: A species-level database of life history, ecology, and geography of extant and recently extinct mammals. *Ecology*. **90**, 2648–2648 (2009).
 34. T. Garland Jr, Scaling the ecological cost of transport to body mass in terrestrial mammals. *Am. Nat.* **121**, 571–587 (1983).
 35. D. Sol, N. Garcia, A. Iwaniuk, K. Davis, A. Meade, W. A. Boyle, T. Székely, Evolutionary divergence in brain size between migratory and resident birds. *PLoS One*. **5**, 1–8 (2010).
 36. J. M. Jeschke, H. Kokko, The roles of body size and phylogeny in fast and slow life histories. *Evol. Ecol.* **23**, 867–878 (2009).
 37. C. A. Botero, R. Dor, C. M. McCain, R. J. Safran, Environmental harshness is positively correlated with intraspecific divergence in mammals and birds. *Mol. Ecol.* **23**, 259–268 (2014).
 38. E. Arriero, A. P. Møller, Host ecology and life-history traits associated with blood parasite species richness in birds. *J. Evol. Biol.* **21**, 1504–1513 (2008).
 39. K. L. Kramer, R. Schacht, A. Bell, Adult sex ratios and partner scarcity among hunter–gatherers: Implications for dispersal patterns and the evolution of human sociality. *Philos. Trans. R. Soc. B Biol. Sci.* **372**, 20160316 (2017).
 40. J. N. Fenner, Cross-cultural estimation of the human generation interval for use in

- genetics-based population divergence studies. *Am. J. Phys. Anthropol. Off. Publ. Am. Assoc. Phys. Anthropol.* **128**, 415–423 (2005).
41. M. Szołtysek, S. Klüsener, R. Poniak, S. Gruber, The patriarchy index: A new measure of gender and generational inequalities in the past. *Cross-Cultural Res.* **51**, 228–262 (2017).
 42. D. Lukas, T. Clutton-Brock, Comparative studies need to rely both on sound natural history data and on excellent statistical analysis. *R. Soc. Open Sci.* **4** (2017), doi:10.1098/rsos.171211.
 43. D. Lukas, T. Clutton-Brock, Costs of mating competition limit male lifetime breeding success in polygynous mammals. *Proc. R. Soc. B Biol. Sci.* **281**, 20140418 (2014).
 44. J. Dale, C. J. Dey, K. Delhey, B. Kempenaers, M. Valcu, The effects of life history and sexual selection on male and female plumage colouration. *Nature.* **527**, 367–370 (2015).
 45. F. J. Pérez-Barbería, I. J. Gordon, M. Pagel, The origins of sexual dimorphism in body size in ungulates. *Evolution (N. Y.)*. **56**, 1276–1285 (2002).
 46. O. Krüger, J. B. W. Wolf, R. M. Jonker, J. I. Hoffman, F. Trillmich, Disentangling the contribution of sexual selection and ecology to the evolution of size dimorphism in pinnipeds. *Evolution (N. Y.)*. **68**, 1485–1496 (2014).
 47. R. Bleiweiss, Covariation of sexual dichromatism and plumage colours in lekking and non-lekking birds: a comparative analysis. *Evol. Ecol.* **11**, 217–235 (1997).
 48. A. P. Møller, T. R. Birkhead, The evolution of plumage brightness in birds is related to extrapair paternity. *Evolution (N. Y.)*. **48**, 1089–1100 (1994).
 49. R. H. Wagner, Hidden leks: sexual selection and the clustering of avian territories. *Ornithol. Monogr.*, 123–145 (1998).

50. A. Cockburn, A. H. Dalziell, C. J. Blackmore, M. C. Double, H. Kokko, H. L. Osmond, N. R. Beck, M. L. Head, K. Wells, Superb fairy-wren males aggregate into hidden leks to solicit extragroup fertilizations before dawn. *Behav. Ecol.* **20**, 501–510 (2009).
51. A. Trochet, V. M. Stevens, M. Baguette, Evolution of sex-biased dispersal. **91**, 297–320 (2016).
52. K. E. Mabry, E. L. Shelley, K. E. Davis, D. T. Blumstein, D. H. van Vuren, Social mating system and sex-biased dispersal in mammals and birds: A Phylogenetic Analysis. *PLoS One.* **8**, 1–9 (2013).
53. D. Lukas, T. H. Clutton-Brock, Group structure, kinship, inbreeding risk and habitual female dispersal in plural-breeding mammals. *J. Evol. Biol.* **24**, 2624–2630 (2011).
54. G. D. Sutherland, A. S. Harestad, K. Price, K. P. Lertzman, Scaling of natal dispersal distances in terrestrial birds and mammals. *Ecol. Soc.* **4** (2000), doi:16\nArtn 16.
55. J. M. Jeschke, H. Kokko, Mortality and other determinants of bird divorce rate. *Behav. Ecol. Sociobiol.* **63**, 1–9 (2008).
56. D. Lukas, T. H. Clutton-Brock, The evolution of social monogamy in mammals. *Science (80-.).* **341**, 526–530 (2013).
57. A. Cockburn, Prevalence of different modes of parental care in birds. *Proc. R. Soc. B Biol. Sci.* **273**, 1375–1383 (2006).
58. J. Winking, M. Gurven, H. Kaplan, J. Stieglitz, The goals of direct paternal care among a South Amerindian population. *Am. J. Phys. Anthropol. Off. Publ. Am. Assoc. Phys. Anthropol.* **139**, 295–304 (2009).
59. L. T. Gettler, A. H. Boyette, S. Rosenbaum, Broadening perspectives on the evolution of human paternal care and fathers' effects on children. *Annu. Rev. Anthropol.* **49** (2020).

60. F. W. Marlowe, A critical period for provisioning by Hadza men: Implications for pair bonding. *Evol. Hum. Behav.* **24**, 217–229 (2003).
61. D. Lukas, T. Clutton-Brock, Cooperative breeding and monogamy in mammalian societies. *Proc. R. Soc. B Biol. Sci.* **279**, 2151–2156 (2012).
62. M. Griesser, S. M. Drobniak, S. Nakagawa, C. A. Botero, Family living sets the stage for cooperative breeding and ecological resilience in birds. *PLoS Biol.* **15**, 1–17 (2017).
63. J. E. Smith, S. Gavrilets, M. B. Mulder, P. L. Hooper, C. El Mouden, D. Nettle, C. Hauert, K. Hill, S. Perry, A. E. Pusey, M. van Vugt, E. A. Smith, Leadership in mammalian societies: Emergence, distribution, power, and payoff. *Trends Ecol. Evol.* **31**, 54–66 (2016).
64. J. M. Kamilar, N. Cooper, Phylogenetic signal in primate behaviour, ecology and life history. *Philos. Trans. R. Soc. B Biol. Sci.* **368** (2013), doi:10.1098/rstb.2012.0341.
65. K. B. Strier, P. C. Lee, A. R. Ives, Behavioral flexibility and the evolution of primate social states. *PLoS One.* **9** (2014), doi:10.1371/journal.pone.0114099.
66. K. N. Balasubramaniam, K. Dittmar, C. M. Berman, M. Butovskaya, M. A. Cooper, B. Majolo, H. Ogawa, G. Schino, B. Thierry, F. B. M. de Waal, Hierarchical steepness and phylogenetic models: Phylogenetic signals in *Macaca*. *Anim. Behav.* **83**, 1207–1218 (2012).
67. C. Groves, Species Concept in Primates. *Am. J. Primatol.* **74**, 687–691 (2012).
68. J. V. Henderson, T. Squires, A. Storeygard, D. Weil, The global distribution of economic activity: Nature, history, and the role of trade. *Q. J. Econ.* **133**, 357–406 (2018).
69. T. Barsbai, V. . Licuanan, A. Steinmayr, E. Tiongson, D. Yang, “Information and the Acquisition of Social Network Connections,” *NBER Working Paper No. 27346* (2020).

70. J. A. List, A. M. Shaikh, Y. Xu, Multiple hypothesis testing in experimental economics. *Exp. Econ.* **22**, 773–793 (2019).

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Ethics: The data we used are publicly available and cannot be used to identify individuals.

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Competing interests: We, the authors, declare that we have no financial conflicts of interest in relation to the content of this article.

Data and materials availability: All data and code are available at <https://doi.org/10.5281/zenodo.4159697>

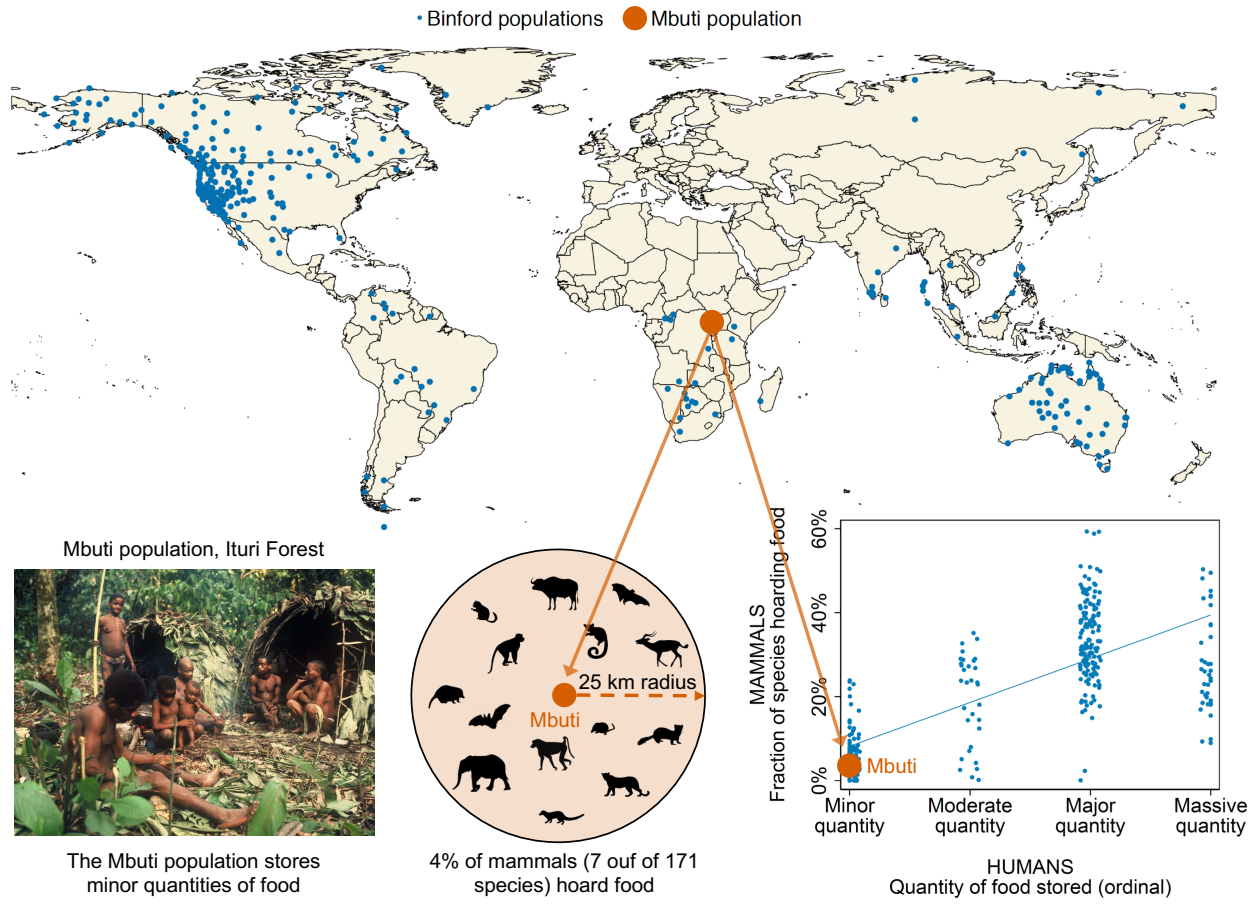


Fig. 1. Matching the behavioral variation of foraging humans, mammals, and birds around the world. For each of the 339 small-scale subsistence-foraging populations from around the world (dots on map), we determined which mammal and bird species lived in the same location and computed their average behavior. For example, in the Mbuti population, who live in the African rainforests, food storage is only minor and four percent of the 171 mammal species living within a 25 km radius around the center of their population hoard food. Combining this information across populations shows that generally in locations where food storage among humans is more common, a higher proportion of local mammal species hoard food, as indicated by the upward slope in the scatter plot.

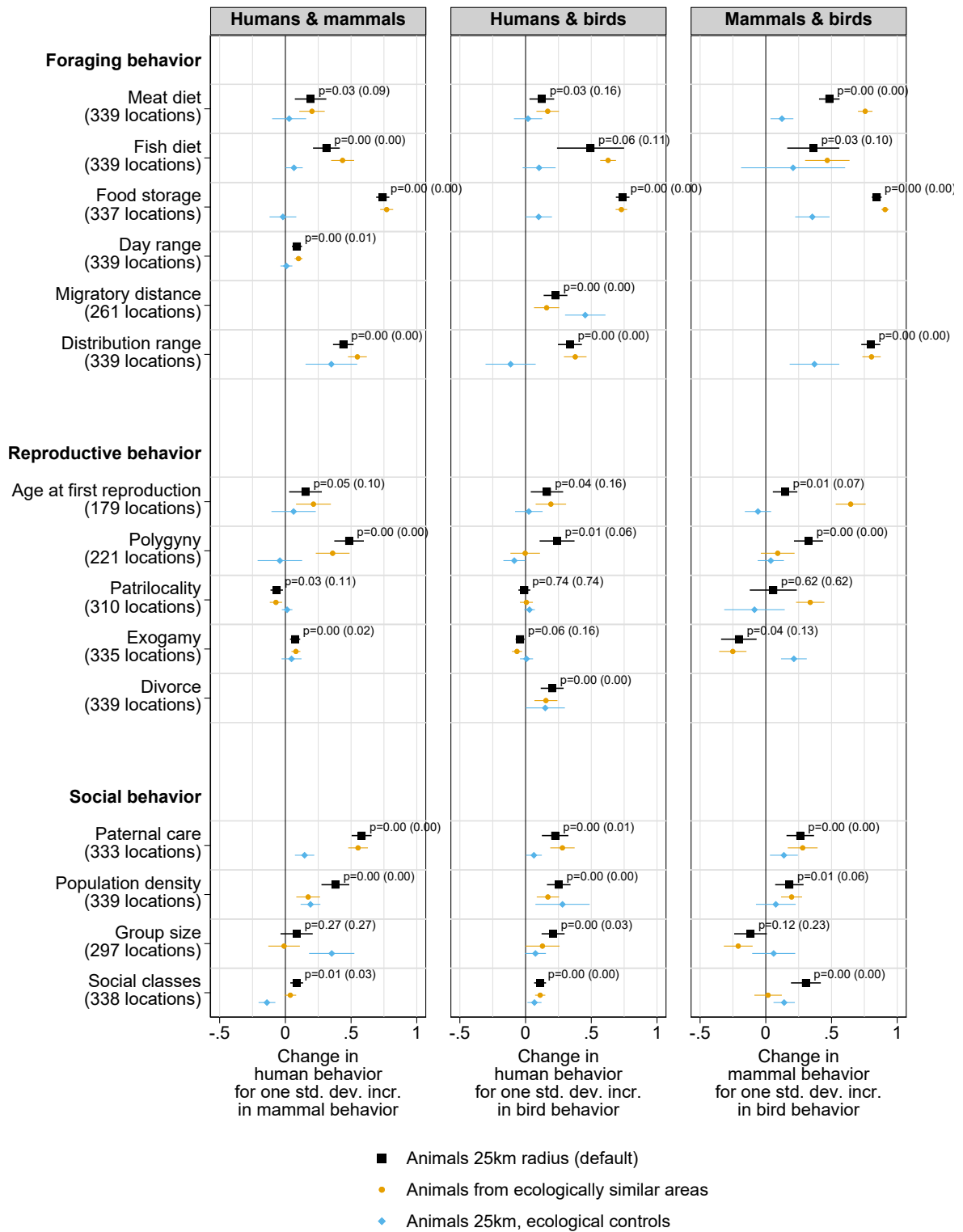


Fig. 2. Association in behavior between humans, mammals, and birds living at the same location. Dots show the estimated marginal effect of an OLS regression and lines the 90 percent confidence interval. For the main specification, the figure also provides the unadjusted p-value and a p-value that is adjusted for multiple testing in parentheses. All variables are standardized with mean zero and standard deviation of one. The marginal effect hence shows by how many standard deviations human behavior changes for a one standard deviation increase in mammal behavior (column 1), by how many standard deviations human behavior changes for a one standard deviation increase in bird behavior (column 2), and by how many standard deviations mammal behavior changes for a one standard deviation increase in bird behavior (column 3). For binary outcomes, the marginal effect reflects the change in the likelihood of a positive outcome for a one standard deviation increase in mammal or bird behavior. We present estimates from three different specifications: (i) average behavior of all non-human species found within a 25 km radius of the center of the range of human populations (main specification), (ii) average behavior of non-human species in ecologically similar areas, (iii) same as (i) but additionally controlling for ecological conditions.

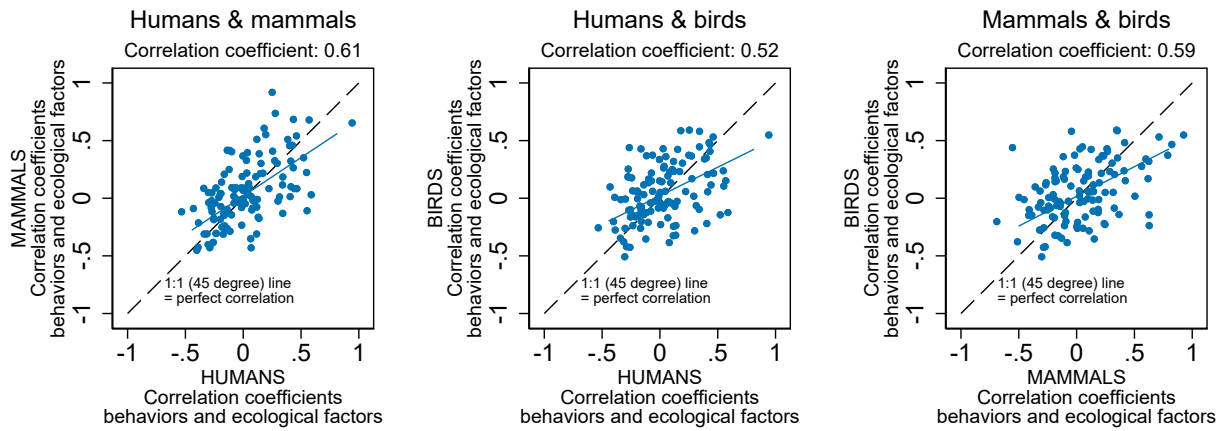


Fig. 3. Similarity in the correlation between behaviors and ecological factors across humans, mammals, and birds living at the same location. These plots visualize the similarity in correlation coefficients between different behaviors and ecological factors for humans, mammals, and birds. They reflect correlations between all twelve behaviors that we observe for the three groups and ten ecological variables (main biomes, in which Binford populations are located, latitude, altitude, proximity to coast). See Figure S11 for more details on the underlying correlations.



Supplementary Materials for

Local convergence of behavior across species

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Data

Human data

We use the ethnographic data provided by Binford (2001) (19) for the main analysis. Binford's dataset describes cultural practices of 339 hunter-gatherer populations located in Africa (n=20), Asia (n=28), Australia (n=56), North America (n=215), and South America (n=20). All populations are geo-located with information on the latitude and longitude of the centroids of their ranges. In the section below, we describe the variables that we use from Binford's dataset and any transformations of the data prior to analysis. Table S4 provides summary statistics for these variables. The map in Figure S1 shows the location of each population.

We use Binford's dataset because it has a few advantages over other potential datasets (e.g., Murdock's Ethnographic Atlas). First, it only covers so-called hunter-gatherer populations, small-scale subsistence foraging populations that acquire most of their own resources directly rather than relying on trade and, while potentially relying on horticulture and few domestic animals, do not practice large-scale agriculture or pastoralism. Resource acquisition is therefore localized, creating a more direct link to the local ecology. Second, for most populations the "focal year" (i.e., the time period to which the cultural data refers) is in the 19th century. More precisely, 2% of populations have a focal year before the 19th century, 63% of populations have a focal year in the 19th century, and 33% of populations have a focal year in the 20th century (for 2% of populations the focal year is missing) (24). Having a focal year before the 20th century for most populations somewhat limits the recent shift towards globalization and market integration and the associated cultural and technological exchange. Third, the dataset provides the best set of variables for directly comparing human and animal behavior.

For robustness, we repeat our analyses with data on 172 Western North American populations provided by Jorgensen (1980) (25). In the section below we describe the variables that we use from Jorgensen's dataset and any transformations of the data prior to analysis. Table S5 provides summary statistics for these variables. The map in Figure S1 shows the location of each population.

The data collection of Binford has been considered less stringent than that of Jorgensen (26), but the potential noise in the coding of the variables in the Binford dataset should, if anything, reduce our power to detect a signal rather than lead to an artificial result. In addition, compared to Binford's dataset, Jorgensen's dataset is more limited in the direct comparability of human and animal behavior and most of the variables provided by Jorgensen are ordinal or categorical thus offering relatively little variation.

Both datasets including a detailed description are available at the Database of Places, Language, Culture, and Environment (D-place): <https://d-place.org/contributions> (24). Tables S1-S3 provide a short description of the human variables. In the following, we explain how we construct the different measures of human behavior in both datasets.

Data on the range distribution of mammals

Our data on the spatial distribution of mammals comes from the International Union for Conservation of Nature (IUCN, 2015) (27). The data covers 5,396 species, i.e. almost all wild mammals. The data includes taxonomic variables (i.e., species, genus, family, and order) and categories specifying the level of threat (i.e., least concern, near threatened, vulnerable, endangered and critically endangered). The data aims to provide the current known distribution of each species within its native range. The limits of distribution can be determined by using

known occurrences of the species, along with the knowledge of habitat preferences, remaining suitable habitat, elevation limits, and other expert knowledge of the species and its range.

The data covers both extant (still existent) and extinct animals (going back until 1500). We thus have information about the historical ranges in which a given mammal no longer exists. It allows us to control for recent extinctions by using the distribution as of 1500. This particular feature minimizes potential biases that could arise from comparing historical human data that largely refer to the 19th or 20th century and modern-day animal data. For details see: <https://www.iucnredlist.org/resources/spatial-data-download>.

Data on the range distribution of birds

Our data on the spatial distribution of birds comes from BirdLife International and the Handbook of the Birds of the World (28). The data covers more than 11,000 species. The data includes scientific and common names used, the authority (for the original description of the taxon), the latest global IUCN Red List category (i.e., least concern, near threatened, vulnerable, endangered and critically endangered), taxonomic notes where relevant, and a record ID number unique to the taxonomic entity. Similar to the mammal data, the bird data has information on the level of certainty that a given bird exists in an area. For details see: <http://datazone.birdlife.org/species/taxonomy>.

Overview of human and non-human variables

In the following, we explain how we construct the different measures of human, mammal, and bird behavior. We also clarify why we selected these variables for each behavior. Tables S1-S3 provide a short description of all human, mammal, and bird variables used in the analysis.

Behavior	Species	Definition	Source
Meat diet	Humans	Binford: Dependence on terrestrial animals (in %). Based on the continuous variable ‘hunting’. Jorgensen: Diet contributed by large game, small animals, and fowl (in %). Based on the ordinal variable ‘v204’.	(19), (25)
	Mammals	Binary variable that takes the value 1 if the diet of the species includes other mammals and birds and 0 otherwise.	(29)
	Birds	Binary variable that takes the value 1 if the diet of the species includes other mammals and birds and 0 otherwise.	(29)
<i>Notes – These variables reflect a similar reliance on meat in all three groups.</i>			
Fish diet	Humans	Binford: Dependence on aquatic organisms (in %). Based on the continuous variable ‘fishing’. Jorgensen: Diet contributed by aquatic animals (in %). Based on the ordinal variable ‘v199’.	(19), (25)
	Mammals	Binary variable that takes the value 1 if the diet of the species includes fish and 0 otherwise.	(30)
	Birds	Binary variable that takes the value 1 if the diet of the species includes fish and 0 otherwise.	(29)
<i>Notes – These variables reflect a similar reliance on fish and aquatic organisms in all three groups.</i>			
Food storage	Humans	Binford: Quantity of food stored. Based on the ordinal variable ‘qtstor’. Jorgensen: Multiple storage sites (binary). Based on the categorical variable ‘v215’.	(19), (25)
	Mammals	Binary variable that takes the value 1 if the species is food-hoarding and 0 otherwise.	(31)
	Birds	Binary variable that takes the value 1 if the species is food-hoarding and 0 otherwise.	(31)
<i>Notes – These variables reflect a similar reliance on stored food resources in all three</i>			

groups.

Day range	Humans	Binford: Central place foraging (binary). Based on the categorical variable ‘mobpat’. The variable is defined as ‘central place collecting’ or ‘central place foraging’. Jorgensen: n/a	(19), (25)
	Mammals	Day range in km. The variable was normalized by body weight. It is based on the residuals from an ordinary least square regression of day range on body mass (in grams).	(32), (33)
	Birds	n/a <i>Notes – These variables represent a short-term measure of space use that at least in part reflects food resource needs of mammals (Garland 1983). Central place foragers quickly deplete resources nearby their home base and therefore often have longer day ranges than mobile foragers. For birds, we are not aware of a comparable variable that covers a sufficiently large number of species.</i>	(34)
Migratory distance	Humans	Binford: Distance moved per year by average household (in km). Based on the continuous variable ‘kmov’. Jorgensen: Non-sedentary settlement (binary). Based on the categorical variable ‘v284’. Non-sedentary settlement is defined as ‘degree of settlement of the community is that of migratory or nomadic bands occupying temporary camps for brief periods successively throughout the year’, ‘that of seminomadic communities temporary camps for much of the year but aggregated in a fixed settlement at some season or seasons, e.g., recurrently occupied winter quarters’, ‘rotating settlements, i.e., two or more permanent or semipermanent settlements occupied successively at different seasons’, or ‘semisedentary settlements occupied throughout the year by at least a nucleus of the community's population, but from which a substantial proportion of the population departs seasonally to occupy shifting camps,	(19), (25)

		e.g., on extended hunting or fishing trips or during pastoral transhumanance’.	
	Mammals	n/a	
	Birds	Migratory distance (in km). The variable was normalized by body weight. It is based on the residuals from an ordinary least square regression of migratory distance on body mass (in grams).	(35), (36)
		<i>Notes – These variables reflect the need for individuals to shift between seasonally depleting environments and the diversity of environments they are likely to encounter. For mammals, we are not aware of a comparable variable that covers a sufficiently large number of species.</i>	
Distribution range	Humans	Binford: Area occupied (in 100 square kilometers). Based on the continuous variable ‘area’. The variable was transformed using natural logarithm.	(19), (25)
		Jorgensen: n/a	
	Mammals	Area of breeding distribution (in 100 square kilometers). The variable was transformed using the natural logarithm.	(37)
	Birds	Area of breeding distribution (in 100 square kilometers). The variable was transformed using the natural logarithm.	(37)
		<i>Notes – These variables measure the total area occupied by a given population/species and reflect the extent to which individuals might be able to exploit diverse environments.</i>	
Age at first reproduction	Humans	Binford: Male age at first marriage. Based on the continuous variable ‘agem’.	(19), (25)
		Jorgensen: n/a	
	Mammals	Age (measured in days) when individuals are first physically capable of reproducing, defined as either physically sexually mature, age at first mating or unspecified (males and females), age at first estrus or age at first pregnancy (females only), age at spermatogenesis or age at testes descent (males only). The variable was normalized by	(33)

body weight. It is based on the residuals from an ordinary least square regression of age at first reproduction on body mass (in grams).

Birds Minimum age at first breeding (measured in years). The variable was normalized by body weight. It is based on the residuals from an ordinary least square regression of age at first reproduction on body mass (in grams). (38), (36)

Notes – These variables reflect the best estimate for the age at which individuals are likely to have their first offspring. (39),(40), (41)

For humans, age at first marriage was selected because data on age at first birth is only available for very small samples (e.g., 6 societies in Kramer et al. (2017) and 10 societies in Fenner (2005)).

Male age at first marriage was selected because it is a more precise measure of actual age at first reproduction than female age at first marriage. In the Binford data, average age at first marriage for women is 14, while for men it is 21 (85% of women are 16 or younger at first marriage). The limited data on hunter-gatherer maternal age at first birth (Fenner 2005) gives an average age of 19 (with a range from 17-23). This pattern fits accounts that women, in particular in polygynous populations, are married well before they start to regularly give birth (Fenner et al. 2005, Szoltysek et al. 2017). Male age at first marriage in contrast appears to provide a more accurate measure of age at first reproduction.

For mammals and birds, average age at first reproduction for males does not exist for many species because it requires genetic approaches to establish paternity for individuals who have been known since birth.

Polygyny	Humans	Binford: Fraction of males married polygynously (in %). Based on the continuous variable ‘polygrecod’. Jorgensen: Extent of polygyny (ordinal). Based on the ordinal variable ‘v294’.	(19), (25)
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Mammals	<p>Unstable groups: Binary variable that takes the value 1 if the species lives in unstable groups and 0 otherwise.</p> <p>Harems: Binary variable that takes the value 1 if the species lives in harems and 0 otherwise.</p>	(42), (43)
Birds	<p>Male plumage score, reflecting the extent to which the plumage colouration of a male of a given species differs from that of females of his own and other related species.</p> <p><i>Notes – These variables reflect the extent to which at times individual males mate with multiple females while other males mate with none.</i></p> <p><i>For humans, the Binford data includes only information on the fraction of males that are married polygynously. The variable taken from Jorgensen describes all forms of plural marriage.</i></p> <p><i>For mammals and birds, information on actual mating behavior does not exist for most species. We selected variables that reflect male mating behavior and the likely extent to which males differ in their mating success.</i></p> <p><i>In mammals, individual males are expected to be able to monopolize matings and exclude other males when females aggregate in groups (Clutton-Brock 1989) and comparative studies show that polygyny appears to increase in species in which females form loose associations (Perez-Barbeira et al. 2002, Krüger et al. 2014). This is in contrast to solitary species in which males are less able to monopolize females, monogamous species in which males generally mate with a single partner, and stable groups where generally all males mate with the females in the group. As a robustness check, we also compared species in which individuals associate in harems, a social structure with groups containing a single male and multiple females, to species with other social structures. We did not use</i></p>	(44)
		(21), (45), (46), (47), (48), (44), (49), (50)

harems as our main measure because it reflects a social structure, whereas polygynous mating could also be present in species in which males form leks or other social structures.

In birds, the social system does not necessarily reflect the mating system. We decided on a measure that is available for a large number of species and likely reflects the extent to which males mate with multiple females. Plumage data are available for 6,000 bird species. Both lekking behavior (Bleiweiss 1997) and extra-pair paternity (Moller and Birkhead 1994) do correlate with male plumage scores, and strong sexual selection on males is associated with an increase of male coloration (Dale et al. 2015). Data on lekking behaviour is available only for a smaller set of species, restricted to certain taxonomic families (150 lekking species versus 250 non-lekking species), and several researchers have argued that in birds breeding in large colonies a ‘hidden lek’ phenomena might occur where some males mate with multiple females (Wagner1998, Cockburn et al. 2009). Data on extrapair paternity is also available for less than 400 species because it requires genetic data.

Patrilocal	Humans	<p>Binford: Patrilocal as established family (binary). Based on the categorical variable ‘fres2’. Patrilocal is defined as ‘ambilocal, but with virilocal bias’ or ‘virilocal’.</p> <p>Jorgensen: Patrilocal after marriage (binary). Based on the categorical variable ‘v308’. Patrilocal is defined as ‘virilocal household, where husband and wife live with (or near) his kinsmen, but not necessarily his father’ or ‘patrilocal household, where husband and wife live with (or near) his father’.</p>	(19), (25)
	Mammals	<p>Binary variable that takes the value 1 if the female mammal leaves and the male stays in the area in which they were born and 0 otherwise.</p>	(51–53)

	Birds	Binary variable that takes the value 1 if natal dispersal is biased towards males and 0 if natal dispersal is biased towards females. <i>Notes – These variables reflect the extent to which females at maturity leave the social group in which they were born to reproduce elsewhere across all three groups.</i>	(51)
Exogamy	Humans	Binford: Exogamous (binary). Based on the ordinal variable ‘commun’. Exogamous is defined as ‘exogamous’ (not including ‘exogamous clan’). Jorgensen: Exogamous (binary). Based on the categorical variable ‘v301’. Exogamous is defined as ‘community marriage pattern are those of exogamous communities, where there is a marked tendency or rule for marriage partners to come from different communities’.	(19), (25)
	Mammals	Dispersal distance (in km). The variable was normalized by body weight. It is based on the residuals from an ordinary least square regression of dispersal distance on body mass (in grams).	(54), (33)
	Birds	Dispersal distance (in km). The variable was normalized by body weight. It is based on the residuals from an ordinary least square regression of dispersal distance on body mass (in grams). <i>Notes – These variables reflect the extent to which dispersing individuals move to an area unfamiliar to them and/or without individuals to whom they are related or with whom they have previously interacted.</i> <i>For humans, we used the variable exogamy to create a binary scoring to contrast populations in which individuals are leaving their social group from populations in which individuals might remain in their social group but marry into a different lineage or within the same lineage.</i> <i>For mammals and birds, we used the scaled (to body size) distance that individuals move prior to their first breeding, with longer</i>	(54), (36)

distances making it less likely that individuals end up close to kin or in familiar environments.

Divorce	Humans	Binford: Ease of divorce (ordinal). Based on the ordinal variable ‘divorce’. It measures the difficulty of obtaining a sanctioned divorce within the society. It includes the following categories: ‘Not permitted or very difficult’, ‘publically adjudicated’ and ‘easy to obtain’. Jorgensen: n/a	(19)
	Mammals	n/a	
	Birds	Yearly divorce rate (in %). It is defined as the number of divorced pairs divided by the total number of pairs where both partners survived from one year to the next.	(55)
<p><i>Notes – These variables reflect the likelihood that a given pair will split. For humans, we assume that a higher social acceptability of divorce reflects a higher rate of divorce as it would be associated with lower social costs. For mammals, we are not aware of a comparable variable that covers a sufficiently large number of species.</i></p>			
Paternal care	Humans	Binford: Diet derived from male labor (in %). Based on the continuous variable ‘mdivlab’. Jorgensen: n/a	(19), (25)
	Mammals	Binary variable that takes the value 1 if the male mammal regularly takes care of offspring (feeding or carrying them) and 0 otherwise.	(56)
	Birds	Binary variable that takes the value 1 if only male birds take care of feeding offspring and 0 otherwise.	(57)
<p><i>Notes – These variables reflect the extent to which offspring rely on energetic contributions by males (their fathers) relative to those contributed by their mothers.</i></p> <p><i>For humans, the Binford data is limited to information on diet derived from male labor (in %). There is no measure of direct investment of males in offspring. While direct care of men for children is important, in</i></p>			

many populations it occurs at relatively low rates, much less than the direct care provided by mothers and usually also less than the direct care provided by some non-parents. In contrast, food contributions appear to be an important part when considering the relative role of fathers versus mothers in offspring investment (e.g., Winking et al. (2009), Gettler et al. (2020)). In particular, food contributed by men appears to help when women have very young offspring (e.g., Marlowe (2003).

In mammals, we defined paternal care to occur when males contributed food or carried offspring, energetically costly behaviors that directly (and only) benefit the offspring.

In birds, we focused on species in which only males contributed to the building of nests, guarding or warming of eggs, and guarding or feeding of offspring.

Population density	Humans	Binford: Population density. Based on the continuous variable ‘density’. The variable was transformed using the natural logarithm. Jorgensen: Population density (ordinal). Based on the ordinal variable ‘v288’.	(19), (25)
	Mammals	Number of individuals per square kilometer. The variable was normalized by body weight. It is based on the residuals from an ordinary least square regression of population density on body mass (in grams).	(33)
	Birds	Number of individuals per square kilometer. The variable was normalized by body weight. It is based on the residuals from an ordinary least square regression of dispersal distance on body mass (in grams).	(36)
<p><i>Notes – These variables define the number of interacting individuals within a given area similar across the three groups. We controlled for body size for the species’ average because small species generally have higher density, so uncontrolled values might simply reflect a higher number of</i></p>			

smaller species in a given area.

Group size	Humans	Binford: Consumer group size. Based on the continuous variable 'group2'. It is defined as the mean size of the consumer group that regularly camps together during the most aggregated phase of the yearly economic cycles. Jorgensen: Group size (ordinal). Based on the ordinal variable 'v286'.	(19), (25)
	Mammals	Social group size. Number of individuals, adults or definition unspecified in a group that spends the majority of their time in a 24 hour cycle together where there is some indication that these individuals form a social cohesive unit, measured over any duration of time, using non-captive populations. The variable was normalized by body weight. It is based on the predicted residuals from an ordinary least square regression of social group size on body mass (in grams).	(33)
	Birds	Binary variable that takes the value 1 if birds forage in large groups (> 30 individuals) and 0 otherwise. <i>Notes – These variables compare the size of groups of individuals that forage together and therefore might be in direct competition over resources.</i> <i>For humans, we used consumer group size as it most likely captures the group of individuals that exploits the same limited area during active foraging.</i> <i>For mammals, we used social group size as this reflects the number of individuals that are in regular contact during foraging. We scaled this for body size to account for the likely higher extent of resource competition among larger-sized species.</i> <i>For birds, we are not aware of a comparable variable that captures the actual numbers of individuals that regularly forage together for a sufficiently large number of species. We therefore relied on a binary classification splitting species in which individuals</i>	

normally forage together in groups from those in which individuals tend to forage on their own.

Social classes	Humans	Binford: Existence of social classes (binary). Based on the ordinal variable ‘systage3’. Existence of social classes is defined as ‘mounted hunters’, ‘generic hunter-gatherers with instituted leadership’, ‘wealth-differentiated hunter-gatherers’, or ‘stratified or characterized by elite and privileged leaders’.	(19), (25)
		Jorgensen: n/a	
	Mammals	Binary variable that takes the value 1 if mammals are cooperative breeders and 0 otherwise.	(61)
	Birds	Binary variable that takes the value 1 if birds are cooperative non-kin breeders and 0 otherwise.	(62)
		<i>Notes – These variables reflect the extent to which individuals within a society might have different roles and reproductive success.</i>	(63)
		<i>For humans, institutionalized leadership in hunter-gatherer populations represents a form of social class distinction. Individuals who are leaders generally tend to have higher reproductive success (Smith et al. 2016).</i>	
		<i>For mammals, cooperative breeders are societies in which there is a dominant breeding pair who produce most of the offspring and adult subordinate non-reproducing helpers who care for the offspring of the dominant pair. Individuals accordingly differ both in their role and in their reproductive success.</i>	
		<i>For birds, non-kin cooperative breeders are societies in which there is generally a single dominant breeding pair and adults who have joined the group but do not reproduce. Again, there is a distinction between individuals in roles and reproductive success. We did not include kin cooperative breeders in birds because these generally reflect</i>	

species in which non-dispersed individuals provide care to the offspring of a dominant pair. These non-dispersed individuals might not yet be adults, so the stratification is reflected by age and not by role.

Methods

Matching of human and animal data

To associate each human population with mammals and birds, we used geo-packages provided by the statistical software Stata. First, we applied the shp2dta command to convert the GIS shapefiles of mammal and bird distribution data into Stata datasets. Next, we used the module geocircles to generate a 25 km radius around the centroid (longitude and latitude) of each human population. To check robustness of our results, we also generated a 100 km radius around the centroid of populations. We chose a 25 km radius because it is close to the average distance per move of a human population in Binford's dataset. Next, we used the Stata module geoinpoly to identify all mammals and birds that live within a 25 km (100 km) radius around the centroid of each human population.

Computing average animal behavior

To compute average animal behavior at the location of each human population, we first determined which mammal and bird species lived at each location. Tables S6 and S7 provide a full list of mammal and bird species included in the analysis. We then used the data on animal behavior listed above and assigned the typically observed behavior to each species. This allowed us to compute average animal behavior at the different locations. Averages based on binary-coded animal behavior represent the fraction of species with that behavior. Averages based on

continuous variables are computed via the sum of animal behavior divided by the number of animals. All averages are unweighted, i.e. all species carry equal weight.

Due to data constraints, we need to assume that the behavior of a species is the same across its distribution range. By doing so, we minimize potential local human impact on animal behavior and ignore variation within animal species. However, we generally do not have matching data for each location. Previous studies have shown that animal behavior of the kind included in our analyses appears to change relatively rarely and to show more variation between than within species (64, 65). Such signals of species-specificity of behavior (66) also occur because populations that differ in the behavioral traits included in our analyses have been classified as separate species (67). Our approach potentially reduces our power to detect associations, as any signal of similarity of behavior of humans, mammals, and birds might mainly arise from the subset of mammalian and avian species in the sample who have adapted to local environmental conditions.

Statistical analysis

To analyze the statistical association between human and animal behavior, we estimate simple regressions of the following form:

$$y_p = \alpha + \beta \text{ animalbehavior}_p + \varepsilon_p$$

where y_p is the human outcome of population p. animalbehavior_p is our measure of average mammal or bird behavior around population p. All variables are standardized with mean zero and standard deviation of one. We use ordinary least squares (OLS) with robust standard errors for all outcomes. For continuous outcomes, the marginal effect shows by how many standard deviations human behavior changes for a one standard deviation increase in mammal or bird

behavior. For binary outcomes, the marginal effect shows by how many percentage points the likelihood of a positive outcome changes for a one standard deviation increase in mammal or bird behavior.

In addition to the parsimonious main specification above, our main results in Figure 2 also include two additional specifications that examine the role of the local environment in explaining behavioral similarity across species. In the first specification, we used average behavior of non-human species in different, but ecologically similar locations. If behavioral similarity is indeed the result from selection pressures of the local ecological environment, ecological factors should operate consistently around the world. To test this hypothesis, we relied on global grid-cell data provided by Henderson et al. (2018) (68). The data cut the entire land area of the globe into 242,164 grid cells. We first determined the grid in which the centroid of each Binford (Jorgensen) population is located. As a next step, we exploited information on the biome, latitude, altitude and coastal proximity to identify ecologically similar grid cells in other parts of the globe. Ecologically similar grid cells were defined as having the same biome, a similar latitude (± 2.5 degrees), a similar altitude (± 250 meters), and the same proximity to the coast (coastal or non-coastal) as the original grid. On average, we identified 1502 similar grid cells for each grid in which a Binford population is located (the median is 683). We then computed average mammal and bird behavior for these ecologically similar grid cells and correlated it with human behavior in the original grid cells.

In the second specification, we used the main specification and additionally included the ecological variables mentioned above (biome, latitude, altitude, and coastal proximity). If similarities in the behavior of humans, mammals, and birds is the result from selection pressures

of the local ecological environment, the correlation should become weaker or even disappear once we control for ecology.

We also present adjusted p-values to address concerns related to multiple testing. To do so, we followed the flexible procedure described in Barsbai et al. (2020) (69). It is based on the procedure introduced by List et al. (2019) (70), which considers information about the dependence structure between hypotheses and thus yields greater statistical power to reject truly false null hypotheses compared to Bonferroni or Holm procedures. Adjusted p-values are calculated using a bootstrap with 10,000 replications. Our statistical inference does not change. Most correlations remain statistically significant at conventional levels of significance. This result reflects the already low unadjusted p-values.

Robustness

Our main specification relies on average behavior of all non-human species found within a 25 km radius of the center of the range of human populations. In Figure S2, we present results from alternative specifications.

First, we clustered standard errors at the level of language phylogenetic classifications (based on Binford's variable 'phyl'). We do so to control for the possibility that the human populations covered by Binford and Jorgensen might not be independent observations.

Second, we increased the radius to 100 km. The covered area is close to the average area occupied by a human population in Binford's dataset.

Third, we used the 25 km radius and averages of animal behavior based on genera, not species. To do so, we first determined the local average behavior of all species within genera. We then built averages across local genera averages of mammals and of birds. All genera hence

contribute equally to the final average. The use of genera averages reduces potential issues from sampling species that had recent radiations within an area where descendant species still share the same behavior, which could create phylogenetic biases.

Fourth, we used the main specification and additionally included a dummy indicating whether a Binford population is located above 55 degrees latitude (i.e., in an arctic or subarctic area) and a dummy indicating whether a Binford population is located on the coast. We can thus assess whether the almost inevitable reliance on meat diets in (sub)arctic areas and the availability of aquatic resources in coastal areas alone explain some of the observed associations, in particular those for diet types.

Fifth, we used the main specification and additionally included a dummy indicating whether gathering (as opposed to hunting or aquatics) provides the majority of nutritional intake of a Binford population. This is another way to assess whether the reliance on animal diet potentially confounds the observed associations.

Our results are remarkably robust to using these different specifications and confirm the results presented in the main analysis. There are only few exceptions: when additionally controlling for coastal and (sub)arctic areas, we no longer find a significant association for meat diet between humans and birds, for age at first reproduction, and for paternal care between humans and birds and birds and mammals; when using averages over genera averages, we no longer find a significant association for the migratory distance between humans and birds and for social classes between humans and birds; when additionally controlling for gathering providing the majority of nutritional intake, we no longer find a significant association for social classes between humans and mammals. The vast majority of our estimates, however, remains unchanged.

In Figure S3, we also show that our estimates are fully robust to using Logit models, not OLS, for binary human outcomes. There are no differences in the size and statistical significance of the estimated marginal effects.

In Figure S4, we replicate our analysis using Jorgensen's dataset. While the associations in behavior across species are strongest when tested with Binford's global dataset, many associations remain present in Jorgensen's dataset focusing on North American populations. We no longer find a positive and statistically significant association for meat diet between humans and mammals and humans and birds, for polygyny between humans and birds, and for exogamy between humans and mammals. Otherwise, the results are very similar to our main analysis based on Binford's dataset. A number of factors including considerably less variation in local ecological conditions, the smaller sample size, and the categorical/ordinal coding of the variables provided by Jorgensen potentially explain why the estimates for the Jorgensen dataset are similar, but less precise.

In Figures S5-S10, we present scatter plots of all described correlations. They document that the observed relationships are not driven by outliers or unusual non-linearities.

Association between ecological factors and behaviors

If selection pressures of the local environment indeed explain behavioral similarities across species, ecological factors should be similarly correlated with behaviors across humans, mammals, and birds. We test this conjecture in Figure S11, which shows the correlation coefficients of different behaviors and different ecological factors (main biomes, in which Binford populations are located, latitude, altitude and coastal proximity) in a heatmap. Indeed, most correlations have the same sign and often similar levels of magnitude. Figure 3 visualizes

the high similarity in the correlation between behaviors and ecological factors across humans, mammals, and birds.

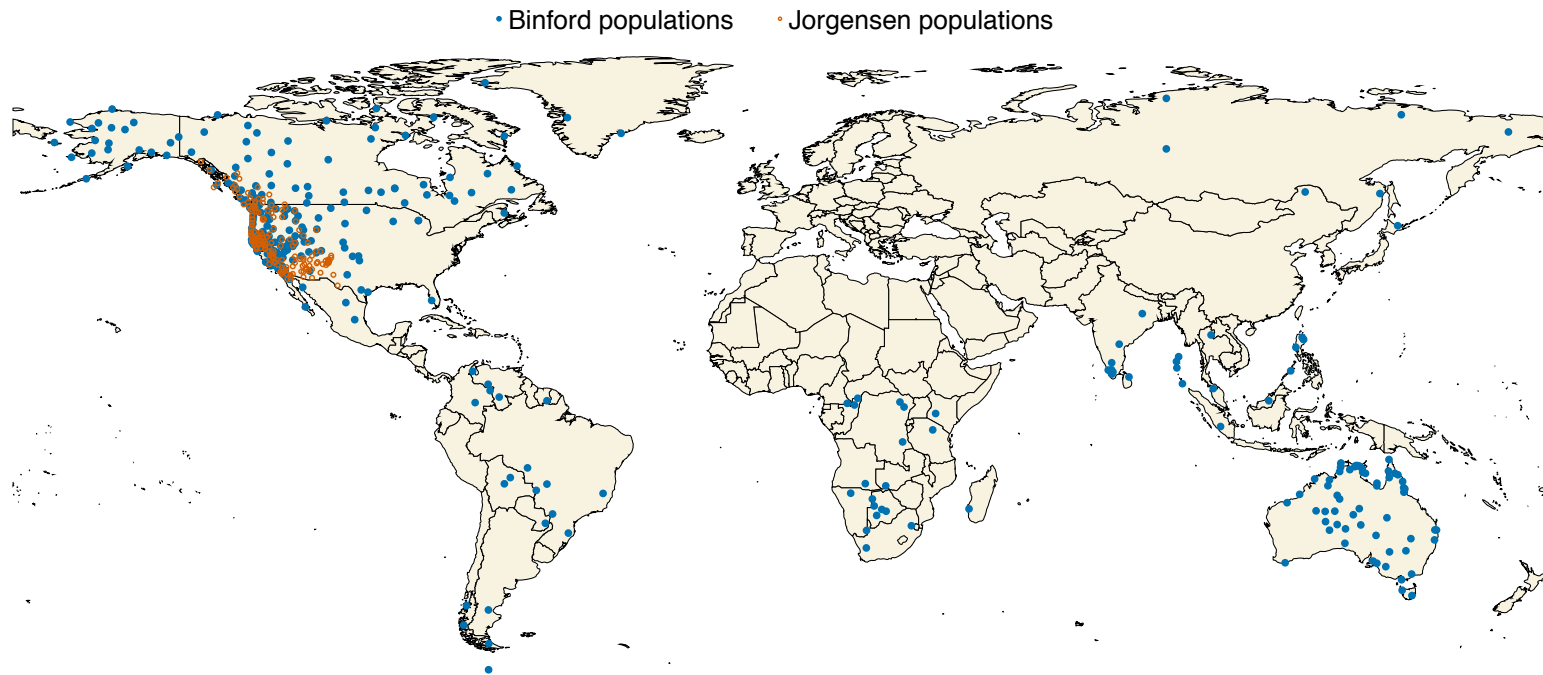


Fig. S1. Global map of Binford's and Jorgensen's populations
Map showing the centroids of Binford and Jorgensen hunter-gatherer populations.

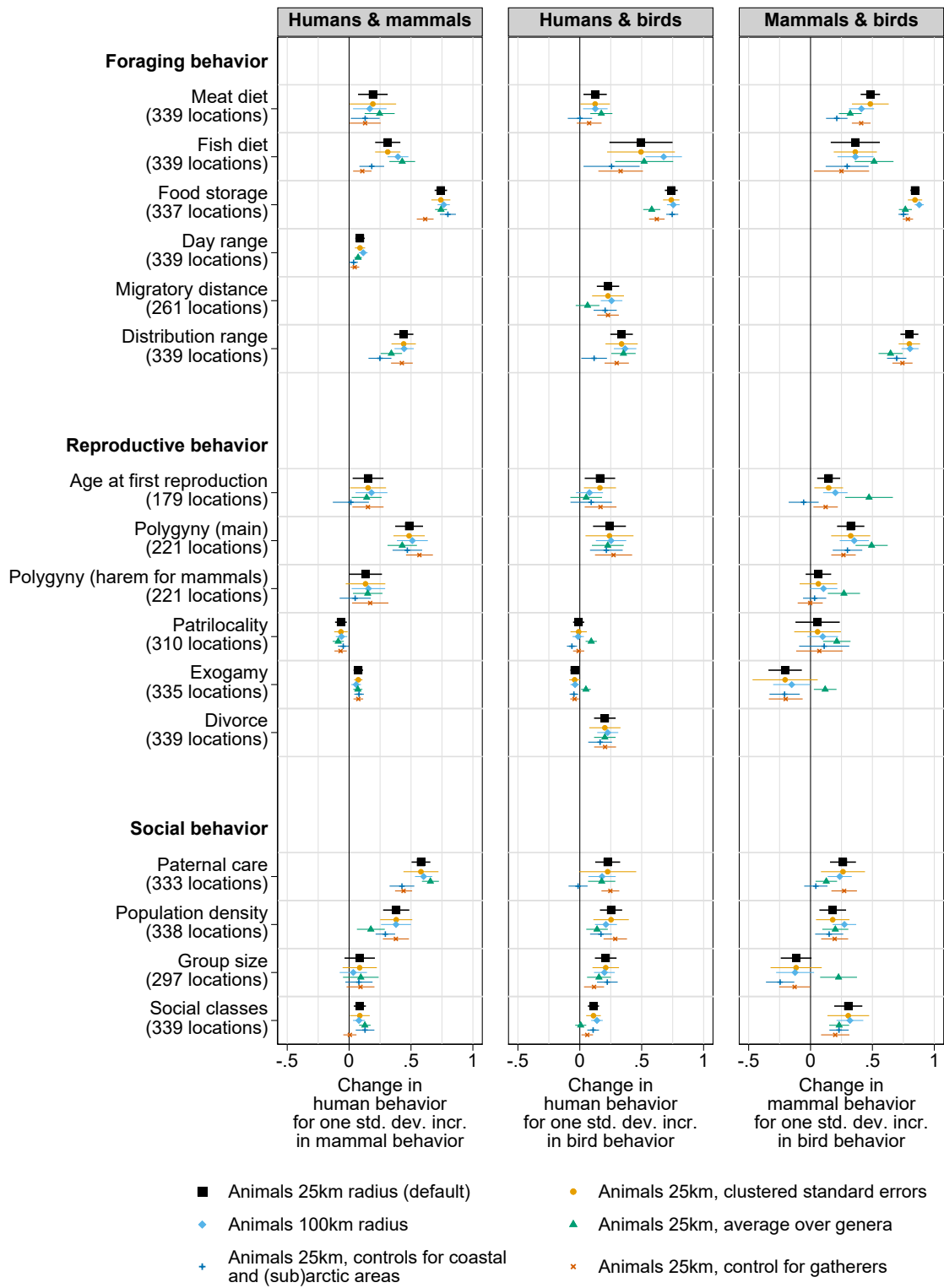


Fig. S2. Results from alternative specifications (Binford populations)

Correlation in behavior between humans (Binford populations) and other mammals, humans and birds, and mammals and birds living at the same location. Dots show the estimated marginal effect of an OLS regression and lines the 90 percent confidence interval. All variables are standardized with mean zero and standard deviation of one. The marginal effect hence shows by how many standard deviations human behavior changes for a one standard deviation increase in mammal behavior (column 1), by how many standard deviations human behavior changes for a one standard deviation increase in bird behavior (column 2), and by how many standard deviations mammal behavior changes for a one standard deviation increase in bird behavior (column 3). For binary outcomes, the marginal effect reflects the change in the likelihood of a positive outcome for a one standard deviation increase in mammal or bird behavior. We present estimates from five different specifications: (i) average behavior of all non-human species found within a 25 km radius of the center of the range of human populations (main specification), (ii) same as (i) but with standard errors clustered at the level of language phylogenetic classifications, (iii) same as (i) but with a radius of 100 km, (iv) same as (i) but average over genera averages, not individual species, (v) same as (i) but additionally controlling for coastal and (sub)arctic areas, (vi) same as (i) but additionally controlling for gathering providing the majority of nutritional intake. For details see section ‘Robustness’ in ‘Methods’.

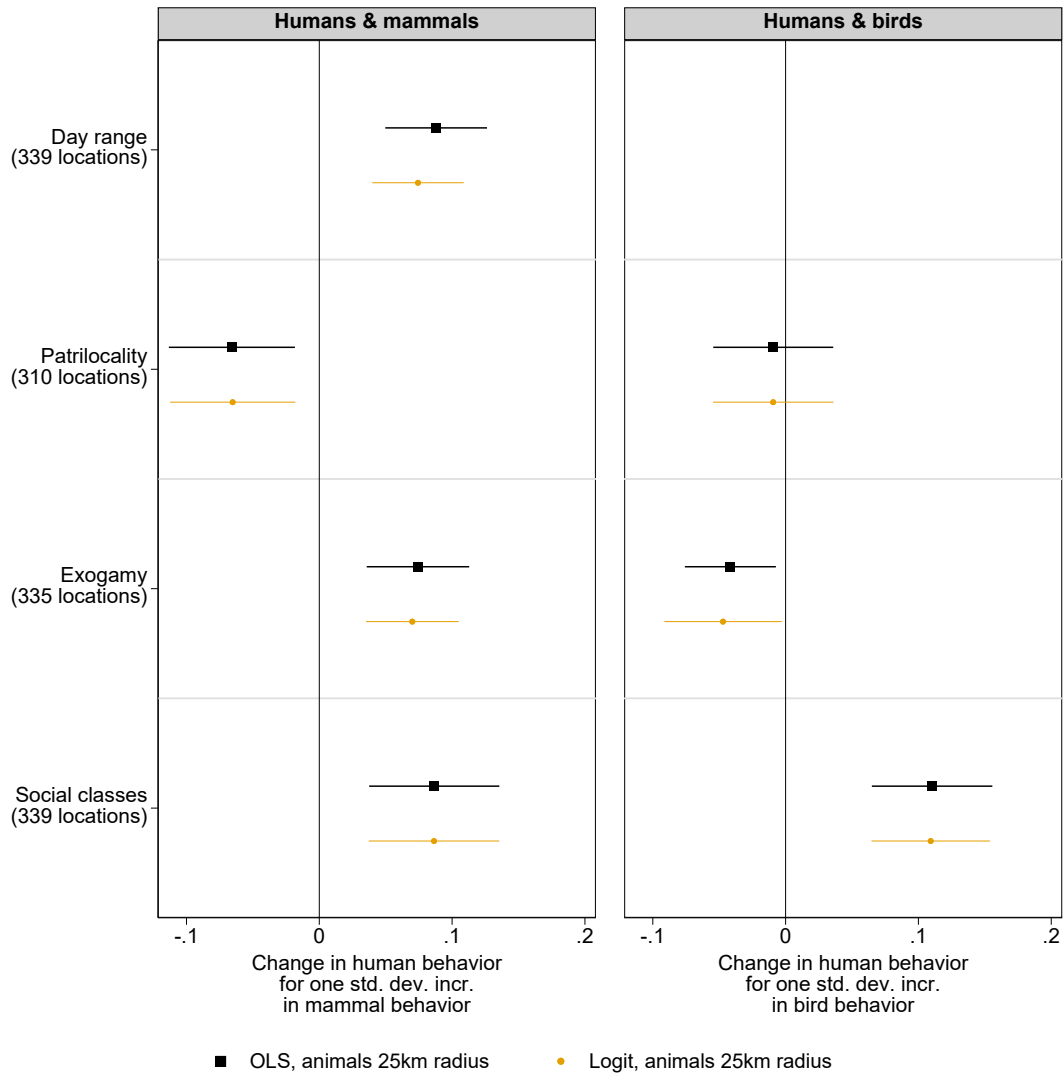


Fig. S3. Comparing OLS and Logit estimates (Binford populations)

Correlation in behavior between humans (Binford populations) and other mammals, humans and birds, and mammals and birds living at the same location. Dots show the estimated marginal effect of an OLS and Logit regression and lines the 90 percent confidence interval. All variables capturing mammal or bird behavior are standardized with mean zero and standard deviation of one. All human outcomes are binary. The marginal effect hence reflects the change in the likelihood of a positive outcome for a one standard deviation increase in mammal or bird behavior. We present estimates from our main specification that uses average behavior of all non-human species found within a 25 km radius of the center of the range of human populations.

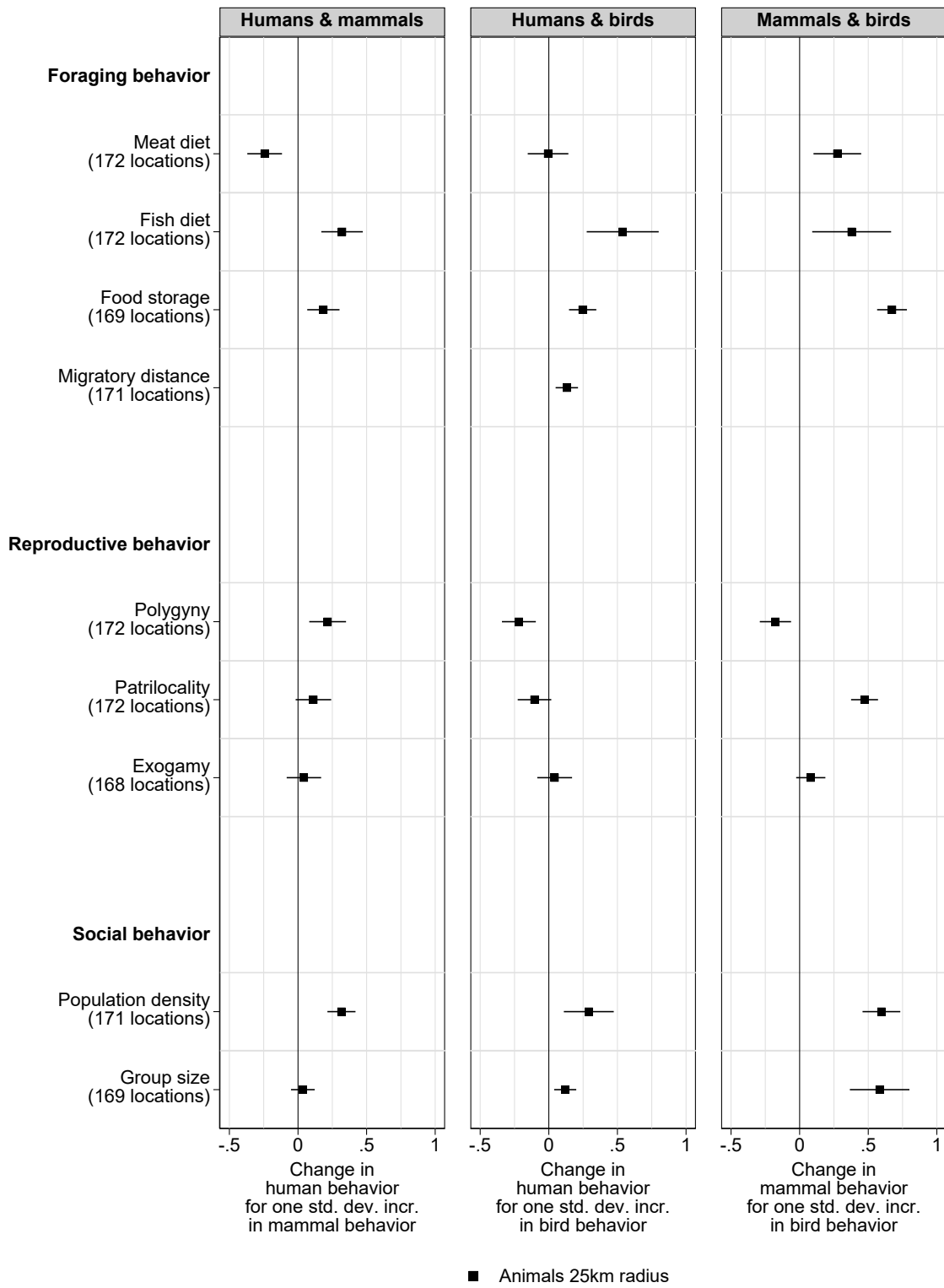


Fig. S4. Results based on Jorgensen’s dataset

Correlation in behavior between humans (Jorgensen populations) and other mammals, humans and birds, and mammals and birds living at the same location. Dots show the estimated marginal effect of an OLS regression and lines the 90 percent confidence interval. All variables are standardized with mean zero and standard deviation of one. The marginal effect hence shows by how many standard deviations human behavior changes for a one standard deviation increase in mammal behavior (column 1), by how many standard deviations human behavior changes for a one standard deviation increase in bird behavior (column 2), and by how many standard deviations mammal behavior changes for a one standard deviation increase in bird behavior (column 3). For binary outcomes, the marginal effect reflects the change in the likelihood of a positive outcome for a one standard deviation increase in mammal or bird behavior. We present estimates from our main specification that uses average behavior of all non-human species found within a 25 km radius of the center of the range of human populations. For details see section ‘Robustness’ in ‘Methods’.

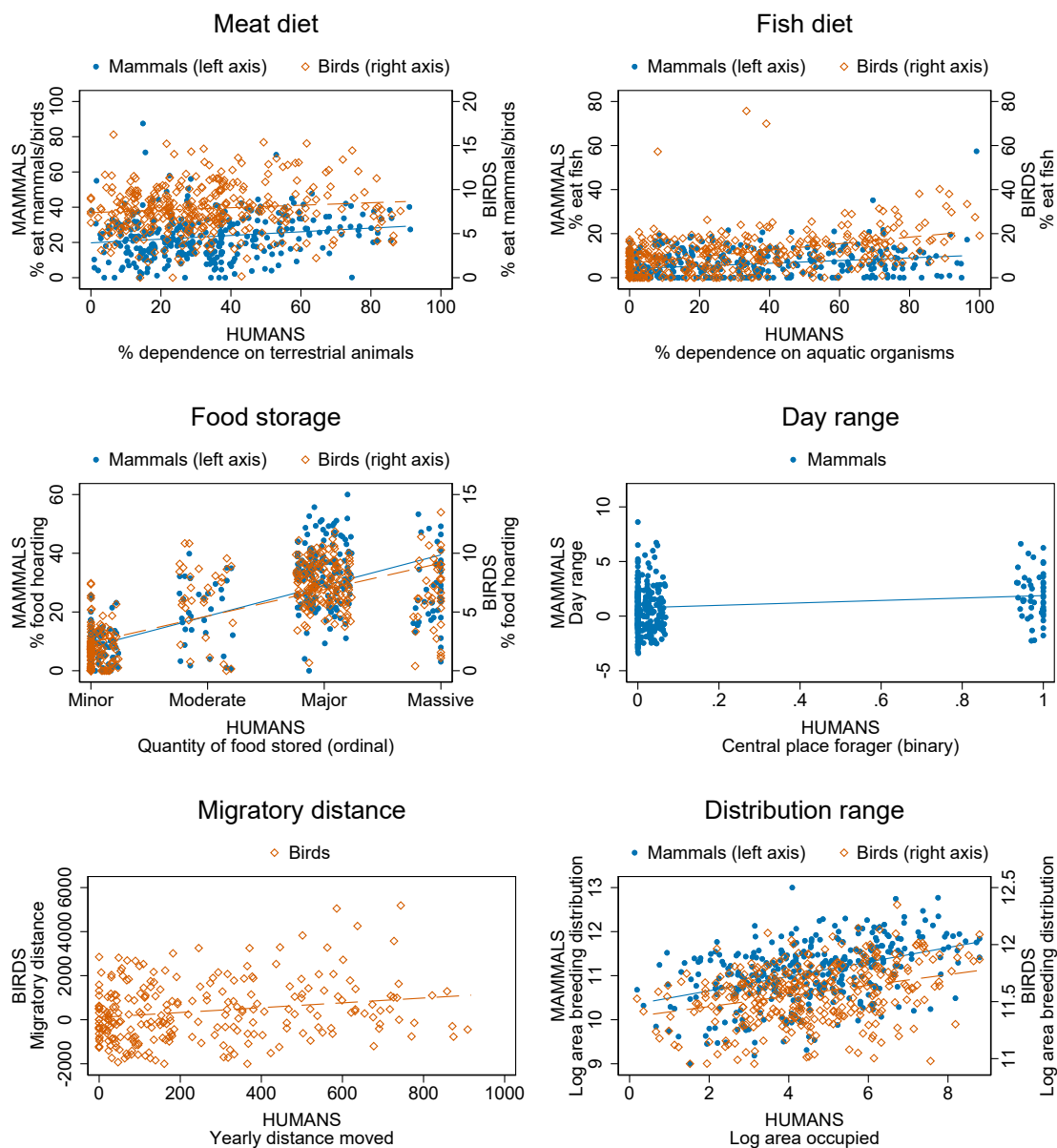


Fig. S5. Scatter plots for foraging behavior (Binford populations)

Scatter plots for foraging behavior of Binford populations and surrounding mammal and bird species. The solid (dashed) line shows the prediction of a linear regression of human behavior on mammal (bird) behavior. Scatter plots include some random noise to improve readability for categorical variables. For mammals and birds, we normalize day range and migratory distance by body weight of each species before computing average behavior across species. They can hence take negative values.

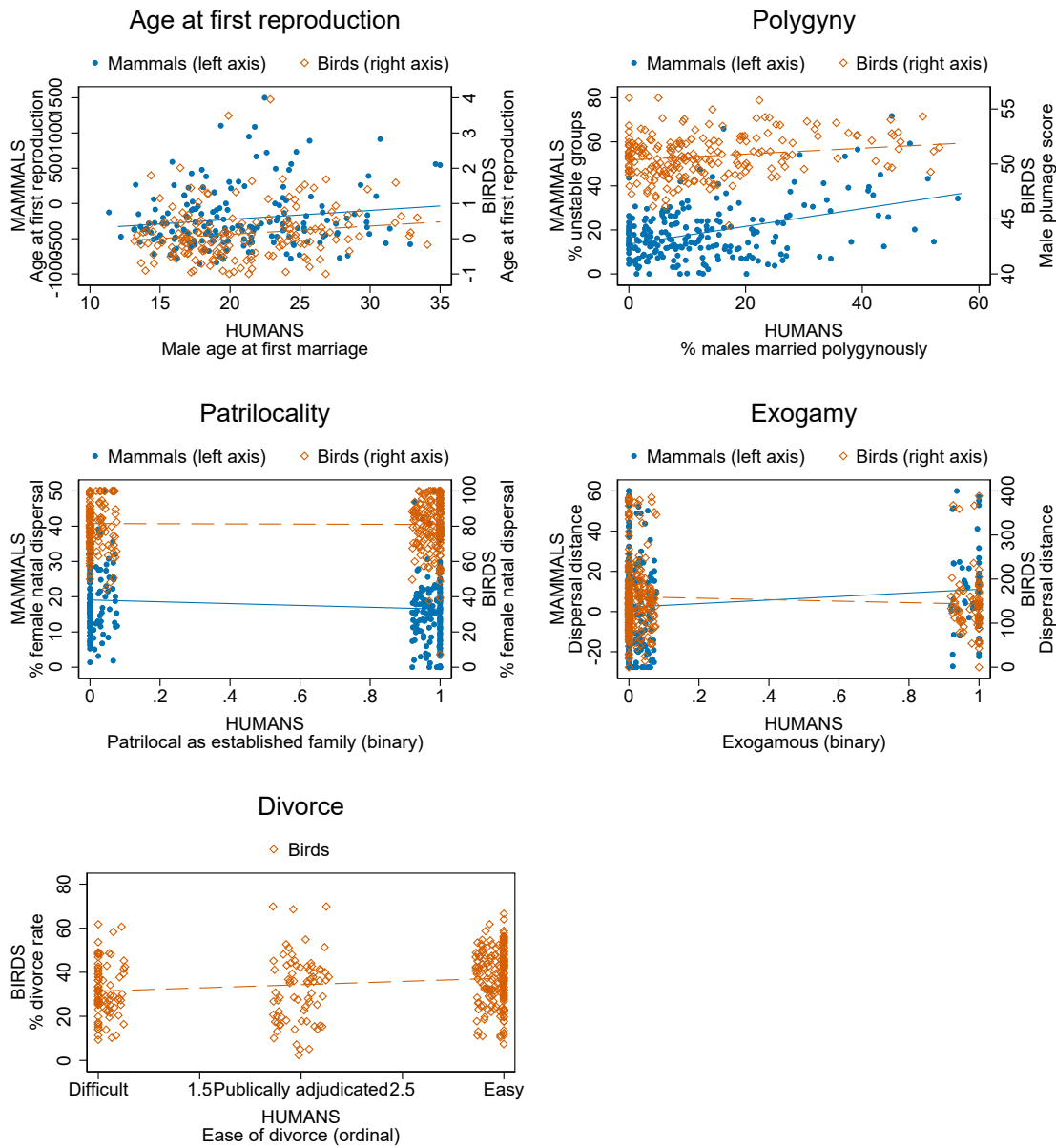


Fig. S6. Scatter plots for reproductive behavior (Binford populations)

Scatter plots for reproductive behavior of Binford populations and surrounding mammal and bird species. The solid (dashed) line shows the prediction of a linear regression of human behavior on mammal (bird) behavior. Scatter plots include some random noise to improve readability for categorical variables. For mammals and birds, we normalize age at first reproduction and dispersal distance by body weight of each species before computing average behavior across species. They can hence take negative values.

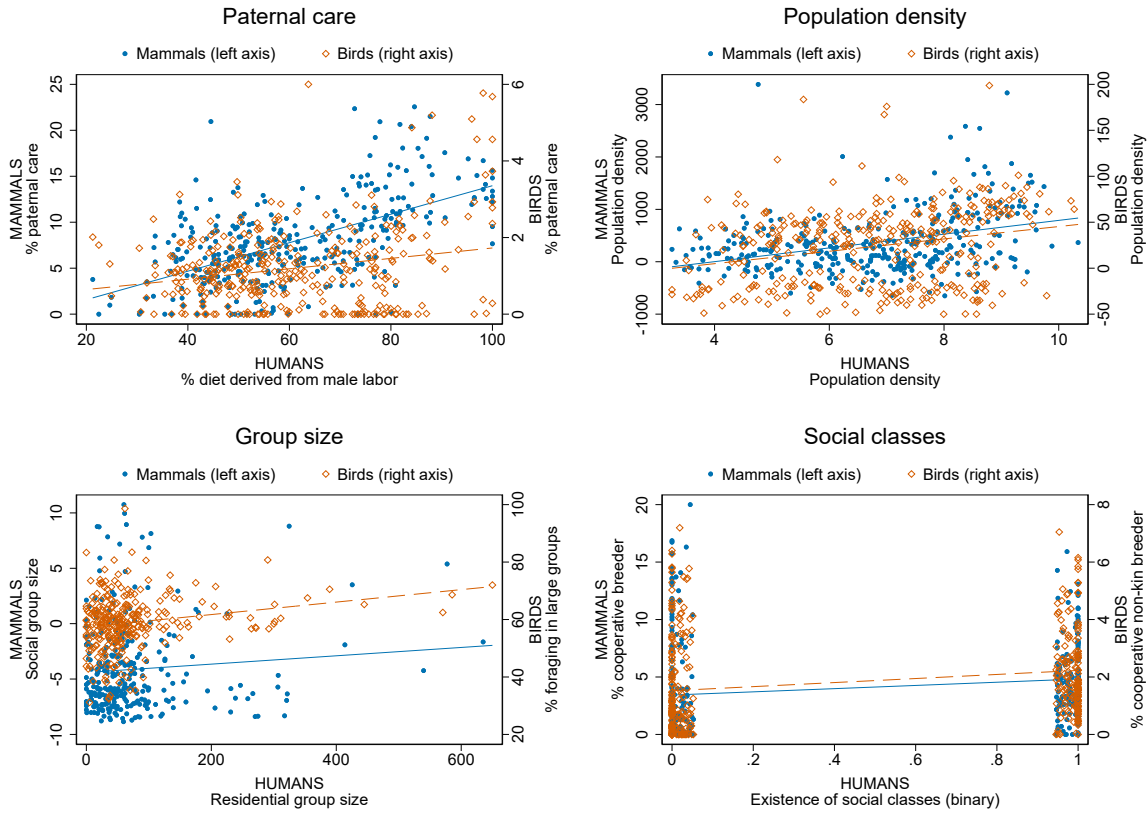


Fig. S7. Scatter plots for social behavior (Binford populations)

Scatter plots for social behavior of Binford populations and surrounding mammal and bird species. The solid (dashed) line shows the prediction of a linear regression of human behavior on mammal (bird) behavior. Scatter plots include some random noise to improve readability for categorical variables. For mammals and birds, we normalize population density and social group size by body weight of each species before computing average behavior across species. They can hence take negative values.

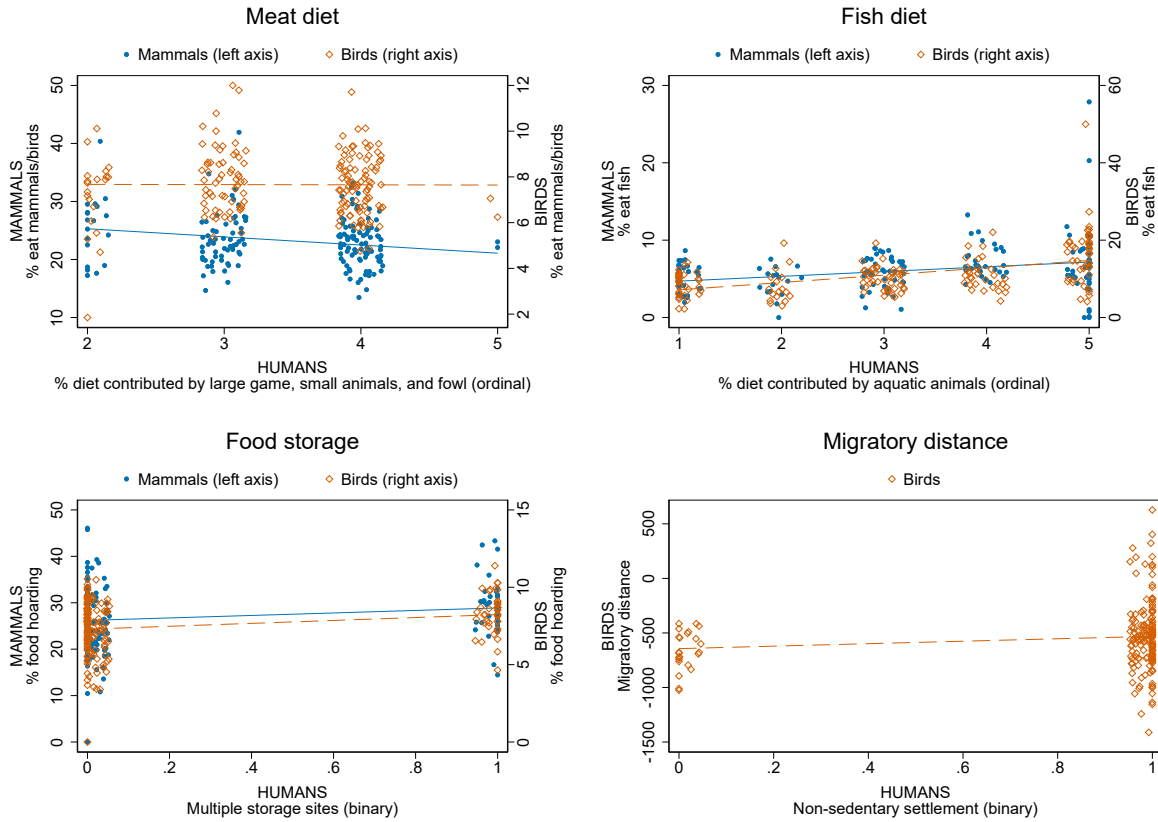


Fig. S8. Scatter plots for foraging behavior (Jorgensen populations)

Scatter plots for foraging behavior of Jorgensen populations and surrounding mammal and bird species. The solid (dashed) line shows the prediction of a linear regression of human behavior on mammal (bird) behavior. Scatter plots include some random noise to improve readability for categorical variables. For birds, we normalize migratory distance by body weight of each species before computing average behavior across species. It can hence take negative values.

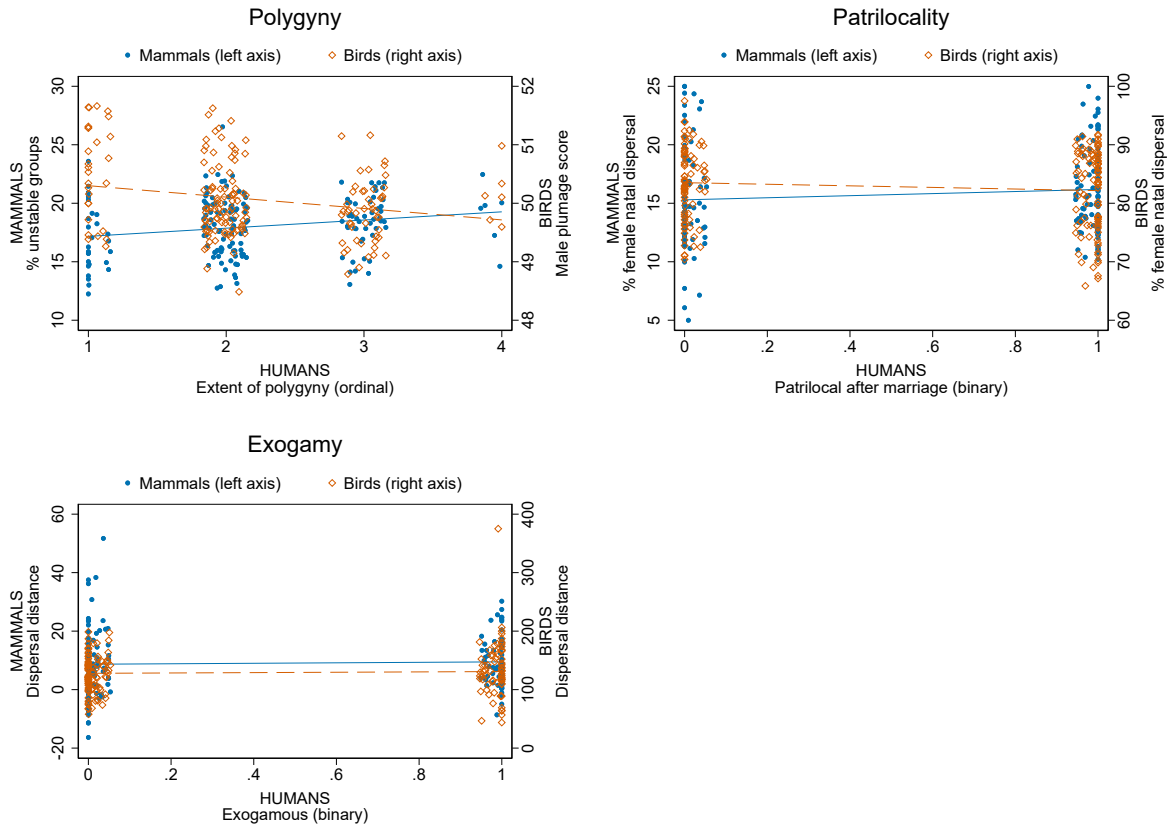


Fig. S9. Scatter plots for reproductive behavior (Jorgensen populations)

Scatter plots for reproductive behavior of Jorgensen populations and surrounding mammal and bird species. The solid (dashed) line shows the prediction of a linear regression of human behavior on mammal (bird) behavior. Scatter plots include some random noise to improve readability for categorical variables. For mammals and birds, we normalize dispersal distance by body weight of each species before computing average behavior across species. They can hence take negative values.

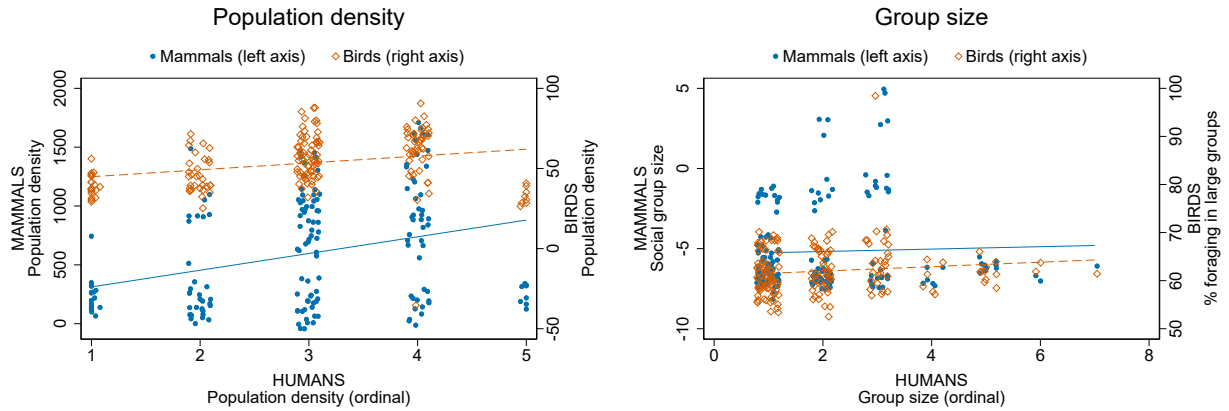


Fig. S10. Scatter plots for social behavior (Jorgensen populations)

Scatter plots for social behavior of Jorgensen populations and surrounding mammal and bird species. The solid (dashed) line shows the prediction of a linear regression of human behavior on mammal (bird) behavior. Scatter plots include some random noise to improve readability for categorical variables. For mammals and birds, we normalize population density and social group size by body weight of each species before computing average behavior across species. They can hence take negative values.

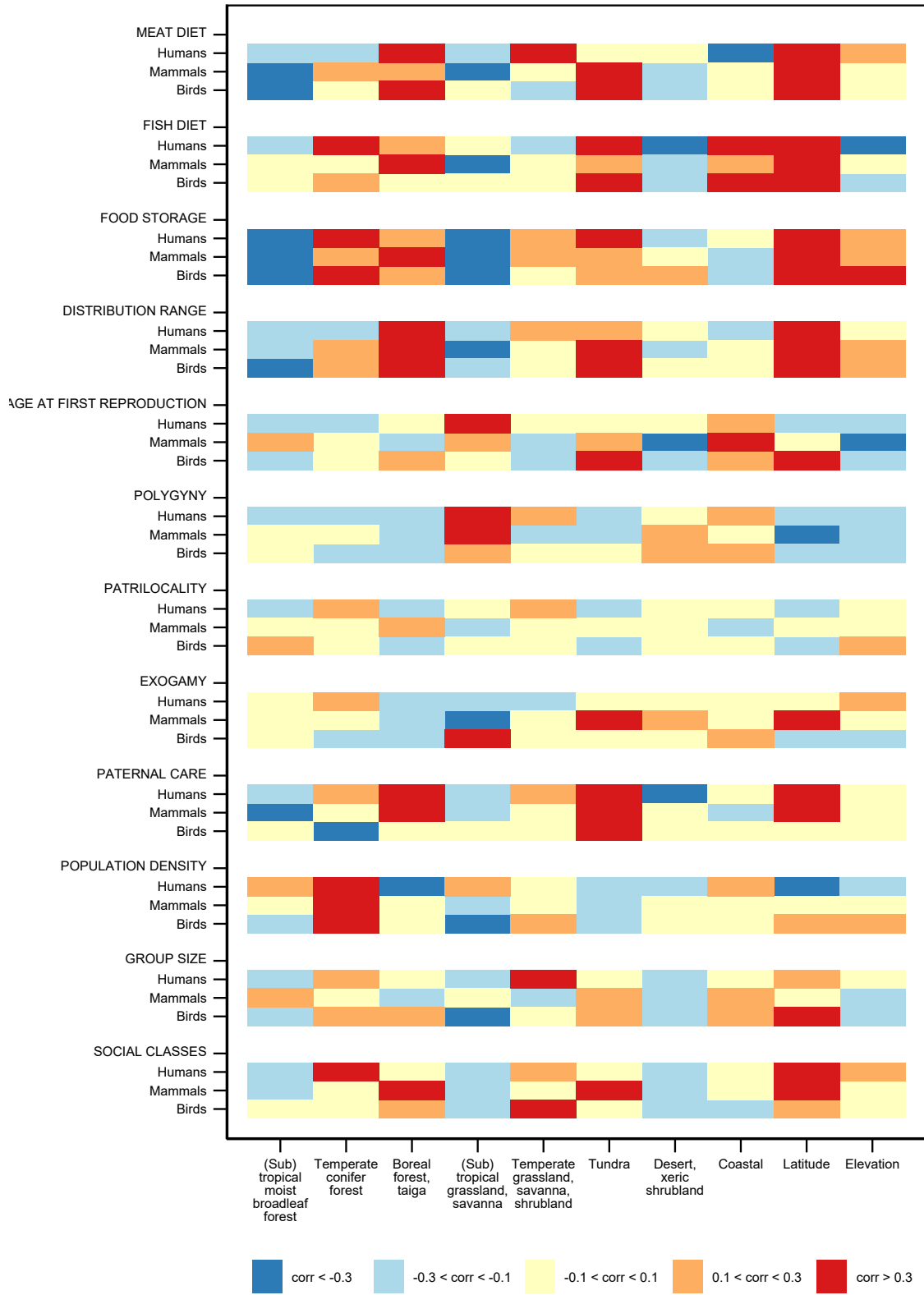


Fig. S11. Correlation between ecological factors and behaviors

Heatmap showing the correlation coefficients between ecological factors and behaviors for humans (Binford populations) and surrounding mammal and bird species. Ecological factors include the main biomes, in which Binford populations are located, latitude, altitude and coastal proximity.

Foraging behavior	Humans (Binford populations)	Mammals	Birds	Humans (Jorgensen populations)
Meat diet	Dependence on terrestrial animals (in %)	Fraction eating mammals/birds (in %)	Fraction eating mammals/birds (in %)	Diet contributed by large game, small animals, and fowl (in %)
Fish diet	Dependence on aquatic organisms (in %)	Fraction eating fish (in %)	Fraction eating fish (in %)	Diet contributed by aquatic animals (in %)
Food storage	Quantity of food stored (ordinal)	Fraction hoarding food (in %)	Fraction hoarding food (in %)	Multiple storage sites (binary)
Day range	Central place forager (binary)	Day range (normalized by body weight)		
Migration	Total distance moved per year by average household		Migratory distance (normalized by body weight)	Non-sedentary settlement (binary)
Distribution range	Log area occupied	Log area breeding distribution	Log area breeding distribution	

Tab. S1. Overview of variables used for measuring foraging behavior

Reproductive behavior	Humans (Binford populations)	Mammals	Birds	Humans (Jorgensen populations)
Age at first reproduction	Male age at first marriage	Age at first reproduction (normalized by body weight)	Age at first reproduction (normalized by body weight)	
Polygyny	Males married polygynously (in %)	Fraction living in unstable groups (in %) / fraction living in harems (in %)	Male plumage score	Extent of polygyny (ordinal)
Patrilocality	Patrilocal as established family (binary)	Fraction of female natal dispersal (in %)	Fraction of female natal dispersal (in %)	Patrilocal after marriage (binary)
Exogamy	Exogamous (binary)	Dispersal distance (normalized by body weight)	Dispersal distance (normalized by body weight)	Exogamous (binary)
Divorce	Ease of divorce (ordinal)		Divorce rate (in %)	

Tab. S2. Overview of variables used for measuring reproductive behavior

Social behavior	Humans (Binford populations)	Mammals	Birds	Humans (Jorgensen populations)
Paternal care	Diet derived from male labor (in %)	Fraction having paternal care (in %)	Fraction having paternal care only (in %)	
Population density	Log population density	Population density (normalized by body weight)	Population density (normalized by body weight)	Population density (ordinal)
Group size	Residential group size	Social group size (normalized by body weight)	Fraction foraging in large groups (in %)	Group size (ordinal)
Social classes	Existence of social classes (binary)	Fraction of cooperative breeders (in %)	Fraction cooperative non-kin breeders (in %)	

Tab. S3. Overview of variables used for measuring social behavior

	Mean	Std. dev.	Minimum	Maximum	Observations
Humans (Binford populations)					
Dependence on terrestrial animals (in %)	33.12	20.03	0.00	90.00	339
Dependence on aquatic organisms (in %)	32.39	27.32	0.00	95.00	339
Quantity of food stored (ordinal)	2.35	1.06	1.00	4.00	337
Central place forager (binary)	0.16	0.36	0.00	1.00	339
Yearly distance moved	250.37	234.41	0.02	917.13	261
Log area occupied	4.60	1.74	0.59	8.79	339
Male age at first marriage	20.82	4.66	12.00	35.00	179
Males married polygynously (in %)	13.23	12.41	0.00	57.00	221
Patrilocal as established family (binary)	0.59	0.49	0.00	1.00	310
Exogamous (binary)	0.23	0.42	0.00	1.00	335
Ease of divorce (ordinal)	2.28	0.84	1.00	3.00	339
Diet derived from male labor (in %)	60.99	17.25	21.25	99.99	333
Log population density	6.78	1.60	3.26	10.34	339
Residential group size	74.91	85.42	19.50	650.00	297
Existence of social classes (binary)	0.47	0.50	0.00	1.00	338
Mammals (25km radius around centroids of human populations)					
Fraction eating mammals/birds (in %)	23.25	10.93	0.00	100.00	333
Fraction eating fish (in %)	6.06	5.38	0.00	66.67	333
Fraction hoarding food (in %)	22.14	15.00	0.00	58.33	339
Day range (normalized by body weight)	0.94	1.70	-2.20	11.13	327
Log area breeding distribution	11.09	0.65	9.36	12.93	334
Age at first reproduction (normalized by body weight)	-214.98	382.15	-846.12	1493.87	339
Fraction living in unstable groups (in %)	19.33	9.34	0.00	66.67	339
Fraction living in harems (in %)	5.27	5.25	0.00	37.50	339
Fraction of female natal dispersal (in %)	17.19	9.76	0.00	50.00	339
Dispersal distance (normalized by body weight)	4.10	21.06	-27.68	53.59	286
Fraction having paternal care (in %)	7.90	4.60	0.00	22.22	339
Population density (normalized by body weight)	367.08	553.56	-436.61	3385.96	338
Social group size (normalized by body weight)	-4.32	3.63	-7.63	10.75	335
Fraction of cooperative breeders (in %)	4.07	4.02	0.00	20.00	339
Birds (25km radius around centroids of human populations)					
Fraction eating mammals/birds (in %)	7.85	2.26	0.00	16.32	339
Fraction eating fish (in %)	11.36	8.17	0.63	80.00	339
Fraction hoarding food (in %)	5.41	3.26	0.00	12.31	339
Migratory distance (normalized by body weight)	322.27	1103.61	-1171.71	5316.09	327
Log area breeding distribution	11.58	0.24	10.95	12.20	335
Age at first reproduction (normalized by body weight)	0.10	0.61	-0.79	3.54	316
Male plumage score	50.64	1.30	43.54	56.02	334
Fraction of female natal dispersal (in %)	81.91	13.48	0.00	100.00	333
Dispersal distance (normalized by body weight)	157.60	73.05	2.00	385.67	330
Divorce rate (in %)	35.24	12.27	4.80	70.35	337
Fraction having paternal care only (in %)	1.20	1.04	0.00	5.88	339
Population density (normalized by body weight)	23.85	42.20	-34.08	197.02	333
Fraction foraging in large groups (in %)	58.95	8.83	31.25	100.00	336
Fraction of cooperative non-kin breeders (in %)	1.86	1.60	0.00	6.90	337

Tab. S4. Descriptive statistics (Binford populations)

Descriptive statistics for Binford populations and surrounding mammals and birds.

	Mean	Std. dev.	Minimum	Maximum	Observations
Humans (Jorgensen populations)					
Diet contributed by large game, small animals, and fowl (ordinal)	3.43	0.71	2.00	5.00	172
Diet contributed by aquatic animals (ordinal)	3.24	1.46	1.00	5.00	172
Multiple storage sites (binary)	0.23	0.42	0.00	1.00	169
Non-sedentary settlement (binary)	0.87	0.34	0.00	1.00	171
Extent of polygyny (ordinal)	2.19	0.74	1.00	4.00	172
Patrilocal after marriage (binary)	0.55	0.50	0.00	1.00	172
Exogamous (binary)	0.41	0.49	0.00	1.00	168
Population density (ordinal)	2.94	1.05	1.00	5.00	171
Group size (ordinal)	2.04	1.28	1.00	7.00	169
Mammals (25km radius around centroids of human populations)					
Fraction eating mammals/birds (in %)	23.28	4.06	15.25	42.86	171
Fraction eating fish (in %)	6.09	2.81	0.00	28.57	171
Fraction hoarding food (in %)	26.79	6.14	0.00	44.90	172
Fraction living in unstable groups (in %)	18.00	2.40	12.50	27.78	172
Fraction of female natal dispersal (in %)	15.78	3.95	5.56	25.00	172
Dispersal distance (normalized by body weight)	9.01	9.24	-11.37	53.59	170
Population density (normalized by body weight)	592.60	475.66	-42.75	1764.46	172
Social group size (normalized by body weight)	-5.21	2.71	-7.59	4.88	172
Birds (25km radius around centroids of human populations)					
Fraction eating mammals/birds (in %)	7.66	1.32	1.85	11.55	172
Fraction eating fish (in %)	11.42	5.17	5.33	53.70	172
Fraction hoarding food (in %)	7.48	1.62	0.00	11.86	172
Migratory distance (normalized by body weight)	-546.89	294.14	-1279.13	627.95	172
Male plumage score	50.07	0.67	48.45	51.66	171
Fraction of female natal dispersal (in %)	82.77	6.52	66.67	100.00	172
Dispersal distance (normalized by body weight)	129.41	34.85	61.81	400.00	172
Population density (normalized by body weight)	53.24	15.46	-30.75	87.09	172
Fraction foraging in large groups (in %)	61.93	4.96	52.94	100.00	172

Tab. S5. Descriptive statistics (Jorgensen populations)

Descriptive statistics for Jorgensen populations and surrounding mammals and birds.

Tab. S6. List of mammal species used in the analysis

<i>Abrawayaomys ruschii</i>	<i>Ammospermophilus</i>	<i>Arctictis binturong</i>	<i>Bdeogale crassicauda</i>
<i>Abrothrix lanosus</i>	<i>interpres</i>	<i>Arctocebus aureus</i>	<i>Bdeogale jacksoni</i>
<i>Abrothrix longipilis</i>	<i>Ammospermophilus</i>	<i>Arctocephalus australis</i>	<i>Bdeogale nigripes</i>
<i>Abrothrix olivaceus</i>	<i>leucurus</i>	<i>Arctocephalus forsteri</i>	<i>Belomys pearsonii</i>
<i>Acerodon jubatus</i>	<i>Ammospermophilus</i>	<i>Arctocephalus pusillus</i>	<i>Berardius arnuxii</i>
<i>Acerodon leucotis</i>	<i>nelsoni</i>	<i>Arctocephalus</i>	<i>Berardius bairdii</i>
<i>Acinonyx jubatus</i>	<i>Anathana ellioti</i>	<i>townsendi</i>	<i>Berylmys berdmorei</i>
<i>Acomys kempfi</i>	<i>Anomalurus beecrofti</i>	<i>Arctogalidia trivirgata</i>	<i>Berylmys bowersi</i>
<i>Acomys percivali</i>	<i>Anomalurus derbianus</i>	<i>Arctonyx collaris</i>	<i>Bettongia gaimardi</i>
<i>Acomys spinosissimus</i>	<i>Anomalurus pusillus</i>	<i>Arctonyx hoevenii</i>	<i>Bettongia tropica</i>
<i>Acomys subspinosus</i>	<i>Anoura caudifer</i>	<i>Arielulus cuprosus</i>	<i>Bibimys chacoensis</i>
<i>Acomys wilsoni</i>	<i>Anoura geoffroyi</i>	<i>Arielulus societatis</i>	<i>Bibimys labiosus</i>
<i>Acrobates pygmaeus</i>	<i>Anoura latidens</i>	<i>Artibeus amplus</i>	<i>Bison bison</i>
<i>Aepyceros melampus</i>	<i>Anourosorex</i>	<i>Artibeus concolor</i>	<i>Blarina brevicauda</i>
<i>Aepyrymnus</i>	<i>squamipes</i>	<i>Artibeus fimbriatus</i>	<i>Blarina carolinensis</i>
<i>rufescens</i>	<i>Antechinomys laniger</i>	<i>Artibeus jamaicensis</i>	<i>Blarina hylophaga</i>
<i>Aeromys tephromelas</i>	<i>Antechinus adustus</i>	<i>Artibeus lituratus</i>	<i>Blarinomys breviceps</i>
<i>Aeromys thomasi</i>	<i>Antechinus agilis</i>	<i>Artibeus obscurus</i>	<i>Blastocerus</i>
<i>Aethalops aequalis</i>	<i>Antechinus bellus</i>	<i>Artibeus planirostris</i>	<i>dichotomus</i>
<i>Aethalops alecto</i>	<i>Antechinus flavipes</i>	<i>Arvicanthis nairobae</i>	<i>Bos gaurus</i>
<i>Aethomys chrysophilus</i>	<i>Antechinus godmani</i>	<i>Arvicanthis neumanni</i>	<i>Boselaphus</i>
<i>Aethomys hindei</i>	<i>Antechinus leo</i>	<i>Arvicanthis niloticus</i>	<i>tragocamelus</i>
<i>Aethomys ineptus</i>	<i>Antechinus minimus</i>	<i>Arvicola amphibius</i>	<i>Brachylagus idahoensis</i>
<i>Aethomys kaiseri</i>	<i>Antechinus stuartii</i>	<i>Aselliscus stoliczkanus</i>	<i>Brachyteles</i>
<i>Akodon aerosus</i>	<i>Antechinus subtropicus</i>	<i>Atelerix albiventris</i>	<i>hypoxanthus</i>
<i>Akodon cursor</i>	<i>Antechinus swainsonii</i>	<i>Atelerix frontalis</i>	<i>Bradypus tridactylus</i>
<i>Akodon dayi</i>	<i>Antidorcas marsupialis</i>	<i>Ateles belzebuth</i>	<i>Bradypus variegatus</i>
<i>Akodon fumeus</i>	<i>Antilocapra americana</i>	<i>Ateles chamek</i>	<i>Brucepattersonius</i>
<i>Akodon iniscatus</i>	<i>Antilope cervicapra</i>	<i>Ateles geoffroyi</i>	<i>iheringi</i>
<i>Akodon kofordi</i>	<i>Antrozous pallidus</i>	<i>Ateles hybridus</i>	<i>Bullimus luzonicus</i>
<i>Akodon montensis</i>	<i>Aonyx capensis</i>	<i>Ateles paniscus</i>	<i>Bunolagus</i>
<i>Akodon paranaensis</i>	<i>Aonyx cinereus</i>	<i>Atherurus africanus</i>	<i>monticularis</i>
<i>Akodon serrensis</i>	<i>Aonyx congicus</i>	<i>Atherurus macrourus</i>	<i>Burramys parvus</i>
<i>Akodon siberiae</i>	<i>Aotus azarae</i>	<i>Atilax paludinosus</i>	<i>Cabassous centralis</i>
<i>Akodon varius</i>	<i>Aotus brumbacki</i>	<i>Austronomus australis</i>	<i>Cabassous tatouay</i>
<i>Alcelaphus buselaphus</i>	<i>Aotus griseimembra</i>	<i>Axis axis</i>	<i>Cabassous unicinctus</i>
<i>Alces alces</i>	<i>Aotus nigriceps</i>	<i>Baiomys taylori</i>	<i>Cacajao hosomi</i>
<i>Allenopithecus</i>	<i>Aotus trivirgatus</i>	<i>Balaena mysticetus</i>	<i>Callicebus bernhardi</i>
<i>nigroviridis</i>	<i>Aotus vociferans</i>	<i>Balaenoptera</i>	<i>Callicebus cinerascens</i>
<i>Allochrocebus lhoesti</i>	<i>Aplodontia rufa</i>	<i>acutorostrata</i>	<i>Callicebus</i>
<i>Alouatta arctoidea</i>	<i>Apodemus agrarius</i>	<i>Balaenoptera</i>	<i>donacophilus</i>
<i>Alouatta caraya</i>	<i>Apodemus argenteus</i>	<i>bonaerensis</i>	<i>Callicebus lugens</i>
<i>Alouatta guariba</i>	<i>Apodemus peninsulae</i>	<i>Balaenoptera borealis</i>	<i>Callicebus pallescens</i>
<i>Alouatta juara</i>	<i>Apodemus speciosus</i>	<i>Balaenoptera edeni</i>	<i>Callicebus personatus</i>
<i>Alouatta macconnelli</i>	<i>Apomys abrae</i>	<i>Balaenoptera musculus</i>	<i>Callithrix flaviceps</i>
<i>Alouatta puruensis</i>	<i>Apomys aurorae</i>	<i>Balaenoptera omurai</i>	<i>Callithrix geoffroyi</i>
<i>Alouatta sara</i>	<i>Apomys datae</i>	<i>Balaenoptera physalus</i>	<i>Callithrix penicillata</i>
<i>Alticola lemminus</i>	<i>Apomys microdon</i>	<i>Balionycteris maculata</i>	<i>Callorhinus ursinus</i>
<i>Amblysomus</i>	<i>Apomys manganensis</i>	<i>Bandicota bengalensis</i>	<i>Callosciurus adamsi</i>
<i>hottentotus</i>	<i>Apomys musculus</i>	<i>Bandicota indica</i>	<i>Callosciurus baluensis</i>
<i>Amblysomus robustus</i>	<i>Apomys sacobianus</i>	<i>Bandicota savilei</i>	<i>Callosciurus caniceps</i>
<i>Amblysomus</i>	<i>Apomys sierrae</i>	<i>Barbastella leucomelas</i>	<i>Callosciurus erythraeus</i>
<i>septentrionalis</i>	<i>Apomys zambalensis</i>	<i>Bassaricyon alleni</i>	<i>Callosciurus</i>
<i>Ametrida centurio</i>	<i>Arborimus albipes</i>	<i>Bassariscus astutus</i>	<i>finlaysonii</i>
<i>Ammospermophilus</i>	<i>Arborimus longicaudus</i>	<i>Bathyergus suillus</i>	<i>Callosciurus</i>
<i>harrisii</i>	<i>Arborimus pumo</i>	<i>Batomys granti</i>	<i>nigrovittatus</i>

Callosciurus notatus	Cephalophus weynsi	Chaetophractus villosus	Coendou insidiosus
Callosciurus orestes	Cephalorhynchus commersonii	Chalinolobus dwyeri	Coendou melanurus
Callosciurus prevostii	Cephalorhynchus eutropia	Chalinolobus gouldii	Coendou mexicanus
Callospermophilus lateralis	Ceratotherium simum	Chalinolobus morio	Coendou prehensilis
Callospermophilus saturatus	Cercartetus caudatus	Chalinolobus nigrogriseus	Coendou pruinus
Calomys boliviae	Cercartetus concinnus	Chalinolobus picatus	Coendou rufescens
Calomys callosus	Cercartetus lepidus	Cheirogaleus medius	Coendou spinosus
Calomys hummelincki	Cercartetus nanus	Cheiromeles parvidens	Coleura afra
Calomys laucha	Cercocebus agilis	Cheiromeles torquatus	Colobus angolensis
Calomys musculinus	Cercopithecus ascanius	Chimarrogale hantu	Colobus guereza
Calomys tener	Cercopithecus cephus	Chiroderma doriae	Colobus satanas
Caluromys lanatus	Cercopithecus denti	Chiroderma salvini	Colomys goslingi
Caluromys philander	Cercopithecus hamlyni	Chiroderma trinitatum	Condylura cristata
Canis adustus	Cercopithecus mitis	Chiroderma villosum	Conepatus chinga
Canis aureus	Cercopithecus neglectus	Chiromyscus chiropus	Conepatus humboldtii
Canis latrans	Cercopithecus nictitans	Chironax melanocephalus	Conepatus leuconotus
Canis lupus	Cerdocyon thous	Chironectes minimus	Conepatus semistriatus
Canis mesomelas	Cerradomys maracajuensis	Chiropodomys calamianensis	Congosorex verheyeni
Cannomys badius	Cerradomys scotti	Chiropodomys gliroides	Connilurus penicillatus
Caperea marginata	Cerradomys subflavus	Chiropodomys major	Connochaetes gnou
Capreolus pygargus	Cervus canadensis	Chiropodomys mureoides	Connochaetes taurinus
Capricornis milneedwardsii	Cervus nippon	Chiropodomys pusillus	Cormura brevirostris
Capricornis sumatraensis	Chaerephon aloysiisabaudiae	Chiropotes albinasus	Corynorhinus mexicanus
Caracal aurata	Chaerephon ansorgei	Chiropotes chiropotes	Corynorhinus rafinesquii
Caracal caracal	Chaerephon bemmeleni	Chlorocebus cynosuroides	Corynorhinus townsendii
Cardioderma cor	Chaerephon bivittatus	Chlorocebus pygerythrus	Crateromys schadenbergi
Carollia brevicauda	Chaerephon chapini	Chlorocebus tantalus	Cratogeomys castanops
Carollia castanea	Chaerephon jobensis	Chlorotalpa sclateri	Cratogeomys fumosus
Carollia perspicillata	Chaerephon jobimena	Choeroniscus godmani	Cratogeomys goldmani
Carpomys melanurus	Chaerephon johorensis	Choeroniscus minor	Cremnomys cutchicus
Carpomys phaeurus	Chaerephon major	Choeronycteris mexicana	Cricetomys emini
Casinycteris argynnis	Chaerephon nigeriae	Choloepus didactylus	Cricetomys gambianus
Castor canadensis	Chaerephon plicatus	Choloepus hoffmanni	Crocidura allex
Catopuma badia	Chaerephon pumilus	Chotomys mindorensis	Crocidura attenuata
Catopuma temminckii	Chaerephon russatus	Chrotomys silaceus	Crocidura attila
Cavia aperea	Chaetodipus arenarius	Chrotomys whiteheadi	Crocidura batesi
Cavia fulgida	Chaetodipus baileyi	Chrotopterus auritus	Crocidura beccarii
Cavia magna	Chaetodipus californicus	Chrysochloris asiatica	Crocidura caliginea
Cebus albifrons	Chaetodipus eremicus	Chrysochloris stuhlmanni	Crocidura congo-belgica
Centronycteris centralis	Chaetodipus fallax	Chrysocyon brachyurus	Crocidura crenata
Centronycteris maximiliani	Chaetodipus formosus	Chrysospalax villosus	Crocidura cyanea
Centurio senex	Chaetodipus hispidus	Cistugo lesueuri	Crocidura denti
Cephalophus callipygus	Chaetodipus intermedius	Cistugo seabrae	Crocidura dolichura
Cephalophus dorsalis	Chaetodipus lineatus	Civettictis civetta	Crocidura elgonius
Cephalophus harveyi	Chaetodipus nelsoni	Cloetis percivali	Crocidura flavescens
Cephalophus leucogaster	Chaetodipus penicillatus	Clyomys laticeps	Crocidura foetida
Cephalophus natalensis	Chaetodipus rudinoris	Coelops frithii	Crocidura fuliginosa
Cephalophus nigrifrons	Chaetodipus spinatus	Coendou bicolor	Crocidura fumosa
Cephalophus rufilatus	Chaetophractus vellerosus		Crocidura fuscomurina
Cephalophus silvicultor			Crocidura goliath
			Crocidura grassei
			Crocidura grayi
			Crocidura hildegardeae
			Crocidura hirta

<i>Crocidura horsfieldii</i>	<i>Cynomops greenhalli</i>	<i>Dermanura anderseni</i>	<i>Dyacopterus brooksi</i>
<i>Crocidura</i>	<i>Cynomops milleri</i>	<i>Dermanura azteca</i>	<i>Dyacopterus spadiceus</i>
<i>indochinensis</i>	<i>Cynomops paranus</i>	<i>Dermanura cinerea</i>	<i>Echimys chrysurus</i>
<i>Crocidura jacksoni</i>	<i>Cynomops planirostris</i>	<i>Dermanura glauca</i>	<i>Echinops telfairi</i>
<i>Crocidura latona</i>	<i>Cynomys gunnisoni</i>	<i>Dermanura gnoma</i>	<i>Echinosorex gymnura</i>
<i>Crocidura lepidura</i>	<i>Cynomys leucurus</i>	<i>Dermanura phaeotis</i>	<i>Echymipera rufescens</i>
<i>Crocidura littoralis</i>	<i>Cynomys ludovicianus</i>	<i>Dermanura tolteca</i>	<i>Eidolon dupreanum</i>
<i>Crocidura ludia</i>	<i>Cynomys parvidens</i>	<i>Desmodillus</i>	<i>Eidolon helvum</i>
<i>Crocidura luna</i>	<i>Cynopterus brachyotis</i>	<i>auricularis</i>	<i>Eira barbara</i>
<i>Crocidura malayana</i>	<i>Cynopterus horsfieldii</i>	<i>Desmodus rotundus</i>	<i>Elephantulus</i>
<i>Crocidura</i>	<i>Cynopterus luzoniensis</i>	<i>Diaemus youngi</i>	<i>brachyrhynchus</i>
<i>maquassiensis</i>	<i>Cynopterus minutus</i>	<i>Diceros bicornis</i>	<i>Elephantulus edwardii</i>
<i>Crocidura mariquensis</i>	<i>Cynopterus sphinx</i>	<i>Diclidurus albus</i>	<i>Elephantulus fuscipes</i>
<i>Crocidura maurisca</i>	<i>Cynopterus</i>	<i>Diclidurus ingens</i>	<i>Elephantulus intufi</i>
<i>Crocidura monax</i>	<i>titthaecheilus</i>	<i>Diclidurus isabella</i>	<i>Elephantulus myurus</i>
<i>Crocidura monticola</i>	<i>Cystophora cristata</i>	<i>Diclidurus scutatus</i>	<i>Elephantulus</i>
<i>Crocidura montis</i>	<i>Cyttarops alecto</i>	<i>Dicrostonyx</i>	<i>pilicaudus</i>
<i>Crocidura mutesae</i>	<i>Dactylomys boliviensis</i>	<i>groenlandicus</i>	<i>Elephantulus rufescens</i>
<i>Crocidura nanilla</i>	<i>Dactylomys dactylinus</i>	<i>Dicrostonyx hudsonius</i>	<i>Elephantulus rupestris</i>
<i>Crocidura negligens</i>	<i>Dactylopsila trivirgata</i>	<i>Dicrostonyx nelsoni</i>	<i>Elephas maximus</i>
<i>Crocidura nigrofuscus</i>	<i>Damaliscus lunatus</i>	<i>Dicrostonyx</i>	<i>Eligmodontia morgani</i>
<i>Crocidura olivieri</i>	<i>Damaliscus pygargus</i>	<i>nunatakensis</i>	<i>Eligmodontia typus</i>
<i>Crocidura</i>	<i>Dasycercus blythi</i>	<i>Dicrostonyx</i>	<i>Eliurus myoxinus</i>
<i>palawanensis</i>	<i>Dasycercus cristicauda</i>	<i>richardsoni</i>	<i>Emballonura alecto</i>
<i>Crocidura paradoxura</i>	<i>Dasykaluta</i>	<i>Dicrostonyx torquatus</i>	<i>Emballonura monticola</i>
<i>Crocidura parvipes</i>	<i>rosamondae</i>	<i>Didelphis albiventris</i>	<i>Enchisthenes hartii</i>
<i>Crocidura roosevelti</i>	<i>Dasymys incomtus</i>	<i>Didelphis aurita</i>	<i>Enhydra lutris</i>
<i>Crocidura silacea</i>	<i>Dasyprocta azarae</i>	<i>Didelphis imperfecta</i>	<i>Eonycteris major</i>
<i>Crocidura turba</i>	<i>Dasyprocta fuliginosa</i>	<i>Didelphis marsupialis</i>	<i>Eonycteris robusta</i>
<i>Crocidura ultima</i>	<i>Dasyprocta leporina</i>	<i>Didelphis pernigra</i>	<i>Eonycteris spelaea</i>
<i>Crocidura viaria</i>	<i>Dasyprocta</i>	<i>Didelphis virginiana</i>	<i>Epixerus ebii</i>
<i>Crocidura voi</i>	<i>prymnolopha</i>	<i>Dinomys branickii</i>	<i>Epomophorus</i>
<i>Crocidura vorax</i>	<i>Dasyprocta punctata</i>	<i>Diphylla ecaudata</i>	<i>crypturus</i>
<i>Crocota crocuta</i>	<i>Dasypus hybridus</i>	<i>Diplogale hosei</i>	<i>Epomophorus labiatus</i>
<i>Crossarchus alexandri</i>	<i>Dasypus kappleri</i>	<i>Dipodomys agilis</i>	<i>Epomophorus minimus</i>
<i>Crossarchus</i>	<i>Dasypus novemcinctus</i>	<i>Dipodomys</i>	<i>Epomophorus minor</i>
<i>platycephalus</i>	<i>Dasypus sabanicola</i>	<i>californicus</i>	<i>Epomophorus</i>
<i>Crunomys fallax</i>	<i>Dasypus septemcinctus</i>	<i>Dipodomys compactus</i>	<i>wahlbergi</i>
<i>Cryptomys hottentotus</i>	<i>Dasyuroides byrnei</i>	<i>Dipodomys deserti</i>	<i>Epomops dobsonii</i>
<i>Cryptonanus agricolai</i>	<i>Dasyurus geoffroii</i>	<i>Dipodomys gravipes</i>	<i>Epomops franqueti</i>
<i>Cryptonanus</i>	<i>Dasyurus hallucatus</i>	<i>Dipodomys heermanni</i>	<i>Eptesicus andinus</i>
<i>chacoensis</i>	<i>Dasyurus maculatus</i>	<i>Dipodomys ingens</i>	<i>Eptesicus brasiliensis</i>
<i>Cryptonanus</i>	<i>Dasyurus viverrinus</i>	<i>Dipodomys merriami</i>	<i>Eptesicus chiriquinus</i>
<i>unduaviensis</i>	<i>Delomys dorsalis</i>	<i>Dipodomys microps</i>	<i>Eptesicus diminutus</i>
<i>Cryptoprocta ferox</i>	<i>Delphinapterus leucas</i>	<i>Dipodomys nelsoni</i>	<i>Eptesicus furinalis</i>
<i>Cryptotis obscura</i>	<i>Delphinus capensis</i>	<i>Dipodomys nitratoides</i>	<i>Eptesicus fuscus</i>
<i>Cryptotis parva</i>	<i>Delphinus delphis</i>	<i>Dipodomys ordii</i>	<i>Eptesicus hottentotus</i>
<i>Ctenomys boliviensis</i>	<i>Dendrogale melanura</i>	<i>Dipodomys</i>	<i>Eptesicus nilssonii</i>
<i>Ctenomys brasiliensis</i>	<i>Dendrohyrax arboreus</i>	<i>panamintinus</i>	<i>Eptesicus pachyotis</i>
<i>Ctenomys</i>	<i>Dendrohyrax dorsalis</i>	<i>Dipodomys simulans</i>	<i>Eptesicus serotinus</i>
<i>magellanicus</i>	<i>Dendrolagus</i>	<i>Dipodomys spectabilis</i>	<i>Equus grevyi</i>
<i>Ctenomys minutus</i>	<i>bennettianus</i>	<i>Dipodomys stephensi</i>	<i>Equus quagga</i>
<i>Ctenomys steinbachi</i>	<i>Dendrolagus lumholtzi</i>	<i>Dipodomys venustus</i>	<i>Equus zebra</i>
<i>Cuniculus paca</i>	<i>Dendromus insignis</i>	<i>Dolichotis patagonum</i>	<i>Erethizon dorsatum</i>
<i>Cuon alpinus</i>	<i>Dendromus melanotis</i>	<i>Dologale dybowskii</i>	<i>Erignathus barbatus</i>
<i>Cyclopes didactylus</i>	<i>Dendromus mesomelas</i>	<i>Dremomys everetti</i>	<i>Erinaceus amurensis</i>
<i>Cynictis penicillata</i>	<i>Dendromus mystacalis</i>	<i>Dremomys rufigenis</i>	<i>Erythrocebus patas</i>
<i>Cynogale bennettii</i>	<i>Dendromus nyikae</i>	<i>Dugong dugon</i>	<i>Eschrichtius robustus</i>
<i>Cynomys abrasus</i>	<i>Deomys ferrugineus</i>	<i>Dusicyon avus</i>	<i>Eubalaena australis</i>

Eubalaena glacialis	Galago moholi	Glirionia venusta	Herpailurus
Eubalaena japonica	Galago senegalensis	Glischropus tylopus	yagouaroundi
Euderma maculatum	Galagoides demidoff	Globicephala	Herpestes
Eudorcas thomsonii	Galagoides thomasi	macrorhynchus	auropunctatus
Eulemur rufifrons	Galea leucoblephara	Globicephala melas	Herpestes brachyurus
Eumetopias jubatus	Galea musteloides	Glossophaga	Herpestes edwardsii
Eumops aripendulus	Galeopterus variegatus	commissarisi	Herpestes flavescens
Eumops bonariensis	Galictis cuja	Glossophaga	Herpestes fuscus
Eumops dabbenei	Galictis vittata	longirostris	Herpestes ichneumon
Eumops glaucinus	Gazella bennettii	Glossophaga soricina	Herpestes javanicus
Eumops hansae	Genetta angolensis	Glyphonycteris behnii	Herpestes naso
Eumops maurus	Genetta genetta	Glyphonycteris daviesi	Herpestes
Eumops patagonicus	Genetta maculata	Glyphonycteris	pulverulentus
Eumops perotis	Genetta piscivora	sylvestris	Herpestes sanguineus
Eumops trumbulli	Genetta servalina	Golunda ellioti	Herpestes
Eumops underwoodi	Genetta tigrina	Gorilla gorilla	semitorquatus
Euneomys	Genetta victoriae	Gracilinanus agilis	Herpestes smithii
chinchilloides	Geogale aurita	Gracilinanus marica	Herpestes urva
Euneomys petersoni	Geomys arenarius	Gracilinanus	Herpestes vitticollis
Euoticus elegantulus	Geomys attwateri	microtarsus	Hesperoptenus
Euphractus sexcinctus	Geomys breviceps	Grammomys cometes	blanfordi
Euroscaptor klossi	Geomys bursarius	Grammomys	Hesperoptenus doriae
Euroscaptor micrura	Geomys knoxjonesi	dolichurus	Hesperoptenus tickelli
Euryoryzomys	Geomys personatus	Grammomys ibeanus	Heterohyrax brucei
macconnelli	Geomys pinetis	Grammomys kuru	Heteromys anomalus
Euryoryzomys nitidus	Geomys texensis	Grampus griseus	Heteromys irroratus
Euryoryzomys russatus	Georychus capensis	Graomys griseoflavus	Heteromys pictus
Euryzygomatomys	Geoxus valdivianus	Graphiurus christyi	Hippocamelus bisulcus
spinosus	Gerbilliscus afra	Graphiurus kelleni	Hippopotamus
Eutamias sibiricus	Gerbilliscus boehmi	Graphiurus lorraineus	amphibius
Exilisciurus exilis	Gerbilliscus brantsii	Graphiurus microtis	Hipposideros amiger
Exilisciurus whiteheadi	Gerbilliscus kempi	Graphiurus murinus	Hipposideros ater
Falsistrellus affinis	Gerbilliscus	Graphiurus nagtglasii	Hipposideros beatus
Falsistrellus	leucogaster	Graphiurus ocularis	Hipposideros bicolor
mackenziei	Gerbilliscus	Graphiurus platyops	Hipposideros caffer
Falsistrellus	nigricaudus	Gulo gulo	Hipposideros
tasmaniensis	Gerbilliscus robustus	Haeromys pusillus	camerunensis
Felis chaus	Gerbilliscus validus	Halichoerus grypus	Hipposideros cervinus
Felis nigripes	Gerbillurus paeba	Handleyomys alfaroi	Hipposideros
Felis silvestris	Gerbillurus vallinus	Handleyomys	cineraceus
Feresa attenuata	Gerbillus cosensis	chapmani	Hipposideros
Fukomys bocagei	Gerbillus harwoodi	Handleyomys rostratus	commersoni
Fukomys damarensis	Gerbillus pusillus	Hapalomys	Hipposideros coronatus
Fukomys	Giraffa camelopardalis	longicaudatus	Hipposideros cyclops
ochraceocinereus	Glaucomyus sabrinus	Haplonycteris fischeri	Hipposideros diadema
Funambulus layardi	Glaucomyus volans	Harpiocephalus harpia	Hipposideros doriae
Funambulus palmarum	Glauconycteris	Heimyscus fumosus	Hipposideros
Funambulus pennantii	alboguttata	Helarctos malayanus	dyacorum
Funambulus	Glauconycteris	Heliophobius	Hipposideros
sublineatus	argentata	argenteocinereus	fuliginosus
Funambulus tristriatus	Glauconycteris beatrix	Heliosciurus	Hipposideros fulvus
Funisciurus anerythrus	Glauconycteris curryae	gambianus	Hipposideros galeritus
Funisciurus congicus	Glauconycteris egeria	Heliosciurus	Hipposideros gigas
Funisciurus isabella	Glauconycteris	rufobrachium	Hipposideros
Funisciurus	humeralis	Helogale parvula	hypophyllus
lemniscatus	Glauconycteris poensis	Hemibelideus	Hipposideros inornatus
Funisciurus leucogenys	Glauconycteris superba	lemuroides	Hipposideros lankadiva
Funisciurus pyrropus	Glauconycteris	Hemigalus derbyanus	Hipposideros larvatus
Furipterus horrens	variegata		Hipposideros lekaguli

Hipposideros lylei	Hypsignathus	Lagenorhynchus	Leopoldamys sabanus
Hipposideros megalotis	monstrosus	albirostris	Lepilemur
Hipposideros obscurus	Hypsiprymnodon	Lagenorhynchus	hubbardorum
Hipposideros pomona	moschatus	australis	Lepilemur ruficaudatus
Hipposideros ridleyi	Hypsugo macrotis	Lagenorhynchus	Leporillus apicalis
Hipposideros ruber	Hystrix africae	cruciger	Leptailurus serval
Hipposideros semoni	brachyura	Lagenorhynchus	Leptonycteris curasoae
Hipposideros speoris	Hystrix crassispinis	obliquidens	Leptonycteris nivalis
Hipposideros stenotis	Hystrix cristata	Lagenorhynchus	Leptonycteris
Hipposideros vittatus	Hystrix indica	obscurus	yerbabuena
Hippotragus equinus	Hystrix pumila	Lagidium viscacia	Lepus alleni
Hippotragus niger	Hystrix sumatrae	Lagidium wolffsohni	Lepus americanus
Histiotus alienus	Ia io	Lagorchestes	Lepus arcticus
Histiotus magellanicus	Ichneumia albicauda	conspicillatus	Lepus californicus
Histiotus montanus	Ictidomys mexicanus	Lagothrix cana	Lepus callotis
Histiotus velatus	Ictidomys	Lagothrix lagotricha	Lepus capensis
Histriophoca fasciata	tridecemlineatus	Lama guanicoe	Lepus europaeus
Holochilus brasiliensis	Ictonyx striatus	Lamproncycteris	Lepus nigricollis
Holochilus sciureus	Idionycteris phyllotis	brachyotis	Lepus othus
Huetia leucorhina	Idiurus macrotis	Lariscus hosei	Lepus penguensis
Hyaena hyaena	Idiurus zenkeri	Lariscus insignis	Lepus saxatilis
Hybomys univittatus	Indopacetus pacificus	Lariscus niobe	Lepus timidus
Hydrictis maculicollis	Inia geoffrensis	Lasionycteris	Lepus tolai
Hydrochoerus	Iomys horsfieldii	noctivagans	Lepus townsendii
hydrochaeris	Irenomys tarsalis	Lasiorhinus latifrons	Lepus victoriae
Hydrochoerus isthmius	Isoodon auratus	Lasiurus atratus	Lestodelphys halli
Hydromys	Isoodon macrourus	Lasiurus blossevillii	Lichonycteris obscura
chrysogaster	Isoodon obesulus	Lasiurus borealis	Lionycteris spurrelli
Hyemoschus aquaticus	Isothrix bistriata	Lasiurus cinereus	Lissodelphis borealis
Hyladelphys	Isothrix orinoci	Lasiurus ega	Lissodelphis peronii
kalinowskii	Juliomys pictipes	Lasiurus egregius	Lissonycteris
Hylaeamys acritus	Kannabateomys	Lasiurus intermedius	angolensis
Hylaeamys laticeps	amblyonyx	Lasiurus seminolus	Litocranius walleri
Hylaeamys	Kerivoula argentata	Lasiurus varius	Lonchophylla robusta
megacephalus	Kerivoula cuprosa	Lasiurus xanthinus	Lonchophylla thomasi
Hylaeamys perenensis	Kerivoula hardwickii	Latidens salimalii	Lonchorhina aurita
Hylaeamys yunganus	Kerivoula intermedia	Lavia frons	Lonchorhina
Hylobates agilis	Kerivoula kachinensis	Leggadina forresti	fernandezi
Hylobates lar	Kerivoula lanosa	Leggadina	Lonchorhina inusitata
Hylobates muelleri	Kerivoula lenis	lakedownensis	Lonchorhina
Hylochoerus	Kerivoula minuta	Lemmiscus curtatus	orinocensis
meinertzhageni	Kerivoula papillosa	Lemmus sibiricus	Lontra canadensis
Hylomys parvus	Kerivoula pellucida	Lemmus trimucronatus	Lontra felina
Hylomys suillus	Kerivoula phalaena	Lemmiscomys	Lontra longicaudis
Hylomyscus aeta	Kerivoula picta	macculus	Lontra provocax
Hylomyscus alleni	Kerivoula smithii	Lemmiscomys rosalia	Lophiomys imhausi
Hylomyscus denniae	Kerivoula titania	Lemmiscomys striatus	Lophocebus albigena
Hylomyscus parvus	Kerivoula whiteheadi	Lemmiscomys zebra	Lophostoma
Hylomyscus stella	Kobus ellipsiprymnus	Lemur catta	brasiliense
Hylomyscus	Kobus kob	Lenothrix canus	Lophostoma carrikeri
walterverheyeni	Kobus leche	Leopardus colocolo	Lophostoma schulzi
Hylopetes alboniger	Kogia breviceps	Leopardus geoffroyi	Lophostoma silvicolium
Hylopetes nigripes	Kogia sima	Leopardus guigna	Lophuromys
Hylopetes phayrei	Kunsia tomentosus	Leopardus guttulus	flavopunctatus
Hylopetes platyurus	Laephotis botswanae	Leopardus pardalis	Lophuromys
Hylopetes spadiceus	Laephotis wintoni	Leopardus tigrinus	luteogaster
Hyperoodon	Lagenodelphis hosei	Leopardus wiedii	Lophuromys
ampullatus	Lagenorhynchus acutus	Leopoldamys ciliatus	nudicaudus
Hyperoodon planifrons		Leopoldamys neilli	Lophuromys sikapusi

Loris lydekkerianus	Manis culionensis	Megaderma spasma	Micronycteris hirsuta
Loxodonta africana	Manis javanica	Megaerops ecaudatus	Micronycteris
Loxodontomys	Manis pentadactyla	Megaerops niphanae	megalotis
micropus	Marmosa constantiae	Megaerops wetmorei	Micronycteris microtis
Lutra lutra	Marmosa demerarae	Megaloglossus	Micronycteris minuta
Lutra sumatrana	Marmosa lepida	woermanni	Micronycteris
Lutreolina	Marmosa mexicana	Megaptera	schmidtorum
crassicaudata	Marmosa murina	novaeangliae	Micropteropus pusillus
Lutrogale perspicillata	Marmosa	Melanomys caliginosus	Micropteropus minutus
Lycalopex culpaeus	paraguayanus	Meles leucurus	Microsciurus
Lycalopex griseus	Marmosa robinsoni	Mellivora capensis	santanderensis
Lycalopex	Marmosa tyleriana	Melogale personata	Microtus agrestis
gymnocercus	Marmosops bishopi	Melomys burtoni	Microtus californicus
Lycalopex vetulus	Marmosops cauae	Melomys capensis	Microtus canicaudus
Lycyon pictus	Marmosops incanus	Melomys cervinipes	Microtus chrotorrhinus
Lyncodon patagonicus	Marmosops noctivagus	Melursus ursinus	Microtus fortis
Lynx canadensis	Marmosops ocellatus	Menetes berdmorei	Microtus gregalis
Lynx lynx	Marmosops parvidens	Mephitis macroura	Microtus hyperboreus
Lynx rufus	Marmosops pinheiroi	Mephitis mephitis	Microtus longicaudus
Macaca arctoides	Marmota broweri	Mesechinus dauuricus	Microtus
Macaca assamensis	Marmota caligata	Mesembriomys gouldii	maximowiczii
Macaca fascicularis	Marmota camtschatica	Mesembriomys	Microtus mexicanus
Macaca leonina	Marmota flaviventris	macrurus	Microtus middendorffii
Macaca mulatta	Marmota monax	Mesomys hispidus	Microtus miurus
Macaca nemestrina	Marmota olympus	Mesophylla	Microtus montanus
Macaca radiata	Marmota sibirica	macconnelli	Microtus ochrogaster
Macaca silenus	Marmota	Mesoplodon bidens	Microtus oconomus
Macaca sinica	vancouverensis	Mesoplodon bowdoini	Microtus oregoni
Macroderma gigas	Martes americana	Mesoplodon carlhubbsi	Microtus
Macroglossus minimus	Martes flavigula	Mesoplodon	pennsylvanicus
Macroglossus sobrinus	Martes gwatkinsii	densirostris	Microtus pinetorum
Macrophyllum	Martes pennanti	Mesoplodon europaeus	Microtus richardsoni
macrophyllum	Martes zibellina	Mesoplodon	Microtus townsendii
Macropus agilis	Mastacomys fuscus	ginkgodens	Microtus
Macropus antilopinus	Mastomys coucha	Mesoplodon grayi	xanthognathus
Macropus bernardus	Mastomys	Mesoplodon hectori	Millardia meltada
Macropus dorsalis	erythroleucus	Mesoplodon layardii	Mimetillus moloneyi
Macropus fuliginosus	Mastomys natalensis	Mesoplodon mirus	Mimon bennettii
Macropus giganteus	Mastomys pernanus	Mesoplodon perrini	Mimon crenulatum
Macropus irma	Mastomys shortridgei	Mesoplodon	Miniopterus australis
Macropus parma	Maxomys baedon	peruvianus	Miniopterus fraterculus
Macropus parryi	Maxomys inas	Mesoplodon stejneri	Miniopterus gleni
Macropus robustus	Maxomys inflatus	Mesoplodon traversii	Miniopterus inflatus
Macropus rufogriseus	Maxomys	Metachirus	Miniopterus magnater
Macropus rufus	ochraceiventer	nudicaudatus	Miniopterus
Macroscelides	Maxomys panglima	Micaelamys granti	mahafaliensis
proboscideus	Maxomys rajah	Micaelamys	Miniopterus majori
Macrotarsomys	Maxomys surifer	namaquensis	Miniopterus manavi
bastardi	Maxomys tajuddinii	Mico intermedius	Miniopterus medius
Macrotis lagotis	Maxomys whiteheadi	Mico melanurus	Miniopterus natalensis
Macrotus californicus	Mazama americana	Microcavia australis	Miniopterus pusillus
Madoqua guentheri	Mazama bororo	Microcebus griseorufus	Miniopterus tristis
Madoqua kirkii	Mazama bricenii	Microcebus murinus	Miopithecus ogouensis
Madromys blanfordi	Mazama chunyi	Microdipodops	Mirounga
Makalata didelphoides	Mazama gouazoubira	megacephalus	angustirostris
Malacomys longipes	Mazama nana	Microdipodops	Mirounga leonina
Malacothrix typica	Mazama nemorivaga	pallidus	Mirza coquereli
Mandrillus sphinx	Mazama temama	Microgale nasoloi	Molossops
Manis crassicaudata	Megaderma lyra	Micromys minutus	mattogrossensis

Molossops neglectus	Muntiacus montanus	Myosorex tenuis	Myotis welwitschii
Molossops temminckii	Muntiacus muntjak	Myosorex varius	Myotis yumanensis
Molossus bondae	Muntiacus vaginalis	Myospalax psilurus	Myrmecophaga
Molossus coibensis	Murina aenea	Myotis adversus	tridactyla
Molossus currentium	Murina cyclotis	Myotis albescens	Mystromys
Molossus molossus	Murina florium	Myotis altarium	albicaudatus
Molossus pretiosus	Murina hilgendorfi	Myotis annectans	Naemorhedus griseus
Molossus rufus	Murina suilla	Myotis auriculus	Nandinia binotata
Molossus sinaloae	Murina tubinaris	Myotis australis	Nanger granti
Monodelphis adusta	Murina ussuriensis	Myotis austroriparius	Nannosciurus
Monodelphis	Mus booduga	Myotis bocagii	melanotis
americana	Mus caroli	Myotis bombinus	Nanonycteris
Monodelphis	Mus cookii	Myotis brandtii	veldkampii
brevicaudata	Mus famulus	Myotis californicus	Napaeozapus insignis
Monodelphis dimidiata	Mus indutus	Myotis chiloensis	Nasalis larvatus
Monodelphis	Mus minutoides	Myotis chinensis	Nasua narica
domestica	Mus musculoides	Myotis ciliolabrum	Nasua nasua
Monodelphis iheringi	Mus musculus	Myotis dasycneme	Natalus
Monodelphis kunsii	Mus oubanguii	Myotis daubentonii	espiritasantensis
Monodelphis osgoodi	Mus pahari	Myotis dinellii	Natalus mexicanus
Monodelphis palliolata	Mus phillipsi	Myotis elegans	Natalus tumidirostris
Monodelphis peruviana	Mus platythrix	Myotis evotis	Neacomys dubosti
Monodelphis scalops	Mus saxicola	Myotis federatus	Neacomys paracou
Monodon monoceros	Mus setulosus	Myotis formosus	Neacomys spinosus
Mops brachypterus	Mus setzeri	Myotis fortidens	Necromys lactens
Mops condylurus	Mus sorella	Myotis frater	Necromys lasiurus
Mops congicus	Mus terricolor	Myotis	Necromys lenguarum
Mops leucostigma	Mus triton	gomantongensis	Necromys urichi
Mops midas	Mustela africana	Myotis goudoti	Nectomys rattus
Mops mops	Mustela altaica	Myotis hasseltii	Nectomys squamipes
Mops nanulus	Mustela erminea	Myotis horsfieldii	Neofelis diardi
Mops niangarae	Mustela eversmanii	Myotis ikonnikovi	Neofelis nebulosa
Mops niveiventer	Mustela frenata	Myotis keaysi	Neofiber alleni
Mops sarasinorum	Mustela itatsi	Myotis keenii	Neomys fodiens
Mops spurrelli	Mustela kathiah	Myotis levis	Neophoca cinerea
Mops thersites	Mustela lutreolina	Myotis lucifugus	Neophocaena
Mormoops	Mustela nigripes	Myotis macrodactylus	phocaenoides
megalophylla	Mustela nivalis	Myotis macropus	Neoromicia brunnea
Mormopterus beccarii	Mustela nudipes	Myotis macrotarsus	Neoromicia capensis
Mormopterus	Mustela sibirica	Myotis melanorhinus	Neoromicia guineensis
cobourgianus	Mustela strigidorsa	Myotis montivagus	Neoromicia helios
Mormopterus eleryi	Mydaus marcheii	Myotis muricola	Neoromicia
Mormopterus halli	Mylomys dybowski	Myotis nesopolus	malagasyensis
Mormopterus jugularis	Myocastor coypus	Myotis nigricans	Neoromicia nana
Mormopterus lorae	Myodes californicus	Myotis occultus	Neoromicia rendalli
Mormopterus	Myodes gapperi	Myotis oxyotus	Neoromicia somalica
lumsdenae	Myodes glareolus	Myotis peytoni	Neoromicia tenuipinnis
Mormopterus	Myodes rex	Myotis ridleyi	Neoromicia zuluensis
norfolkensis	Myodes rufocanus	Myotis riparius	Neotamias alpinus
Mormopterus petersi	Myodes rutilus	Myotis ruber	Neotamias amoenus
Mormopterus planiceps	Myomyscus brockmani	Myotis rufopictus	Neotamias canipes
Mormopterus ridei	Myomyscus verreauxii	Myotis septentrionalis	Neotamias cinereicollis
Moschiola indica	Myonycteris torquata	Myotis siligorensis	Neotamias dorsalis
Moschiola meminna	Myoprocta acouchy	Myotis simus	Neotamias durangae
Moschus moschiferus	Myoprocta pratti	Myotis thysanodes	Neotamias merriami
Mungos mungo	Myopterus daubentonii	Myotis tricolor	Neotamias minimus
Mungotictis	Myopterus whitleyi	Myotis velifer	Neotamias obscurus
decemlineata	Myopus schisticolor	Myotis vivesi	Neotamias ochrogenys
Muntiacus atherodes	Myosorex cafer	Myotis volans	Neotamias palmeri

Neotamias panamintinus	Notoryctes caurinus	Oligoryzomys chacoensis	Otospermophilus variegatus
Neotamias quadrimaculatus	Notoryctes typhlops	Oligoryzomys destructor	Ourebia ourebi
Neotamias quadrivittatus	Nyctalus aviator	Oligoryzomys eliurus	Ovibos moschatus
Neotamias ruficaudus	Nyctereutes procyonoides	Oligoryzomys flavescens	Ovis canadensis
Neotamias rufus	Nycteris arge	Oligoryzomys fornesi	Ovis dalli
Neotamias senex	Nycteris aurita	Oligoryzomys fulvescens	Ovis nivicola
Neotamias siskiyou	Nycteris grandis	Oligoryzomys longicaudatus	Oxymycterus dasytrichus
Neotamias sonomae	Nycteris hispida	Oligoryzomys magellanicus	Oxymycterus delator
Neotamias speciosus	Nycteris intermedia	Oligoryzomys microtis	Oxymycterus hiska
Neotamias townsendii	Nycteris macrotis	Oligoryzomys nigripes	Oxymycterus hispidus
Neotamias umbrinus	Nycteris major	Oligoryzomys onychogalea	Oxymycterus hucucha
Neotoma albigula	Nycteris nana	Oligoryzomys onychomys	Oxymycterus inca
Neotoma angustapalata	Nycteris thebaica	Oligoryzomys leucogaster	Oxymycterus nasutus
Neotoma cinerea	Nycteris tragata	Onychomys torridus	Oxymycterus paramensis
Neotoma devia	Nycticebus bengalensis	Orcaella brevirostris	Oxymycterus quaestor
Neotoma floridana	Nycticebus coucang	Orcaella heinsohni	Oxymycterus roberti
Neotoma fuscipes	Nycticebus menagensis	Orcinus orca	Ozotoceros bezoarticus
Neotoma goldmani	Nycticeinops schlieffeni	Oreamnos americanus	Pagophilus groenlandicus
Neotoma lepida	Nycticeius humeralis	Oreotragus oreotragus	Paguma larvata
Neotoma leucodon	Nyctimene robinsoni	Ornithorhynchus anatinus	Pan troglodytes
Neotoma macrotis	Nyctinomops aurispinosus	Orthogeomys hispidus	Panthera leo
Neotoma mexicana	Nyctinomops femorosaccus	Orycteropus afer	Panthera onca
Neotoma micropus	Nyctinomops laticaudatus	Oryctolagus cuniculus	Panthera pardus
Neotoma stephensi	Nyctinomops macrotis	Oryx beisa	Panthera tigris
Neotragus batesi	Nyctophilus arnhemensis	Oryx gazella	Papio anubis
Neovison vison	Nyctophilus bifax	Oryzomys couesi	Papio cynocephalus
Nephelomys albigularis	Nyctophilus geoffroyi	Oryzomys palustris	Papio kindae
Nephelomys keaysi	Nyctophilus gouldi	Otaria byronia	Papio ursinus
Nephelomys levipes	Nyctophilus sherrini	Otocyon megalotis	Paracrociodura schoutedeni
Nesolagus netscheri	Nyctophilus walkeri	Otolemur crassicaudatus	Paracynictis selousi
Nesotragus moschatus	Ochotona collaris	Otolemur garnettii	Paradoxurus hermaphroditus
Neurotrichus gibbsii	Ochotona hyperborea	Otomops harrisoni	Paradoxurus jerdoni
Neusticomys venezuelae	Ochotona mantchurica	Otomops martiensseni	Paraechinus nudiventris
Nilgiritragus hylocrius	Ochotona princeps	Otomys angoniensis	Parahaena brunnea
Ningau ridei	Ochotona turuchanensis	Otomys auratus	Paratriaenops furculus
Ningau timealeyi	Ochrotomys nuttalli	Otomys irroratus	Paraxerus alexandri
Ningau yvonneae	Odobenus rosmarus	Otomys karoensis	Paraxerus boehmi
Niviventer cameroni	Odocoileus hemionus	Otomys laminatus	Paraxerus cepapi
Niviventer cremoriventer	Odocoileus virginianus	Otomys tropicalis	Paraxerus ochraceus
Niviventer fraternus	Oecomys auyantepui	Otomys typus	Paraxerus palliatus
Niviventer fulvescens	Oecomys bicolor	Otomys unisulcatus	Paraxerus poensis
Niviventer langbianis	Oecomys catherinae	Otopteropus cartilagonodus	Pardofelis marmorata
Niviventer rapit	Oecomys concolor	Otospermophilus beecheyi	Paremballonura tiavata
Noctilio albiventris	Oecomys flavicans	Otospermophilus beecheyi ssp.	Parotomys brantsii
Noctilio leporinus	Oecomys mamorae	Otomys atricapillus	Parotomys littledalei
Notiomys edwardsii	Oecomys rex		Patonomys semivillosus
Notiosorex cockrumi	Oecomys roberti		Pecari tajacu
Notiosorex crawfordi	Oecomys rutilus		Pedetes capensis
Notomys alexis	Oecomys speciosus		Pedetes surdaster
Notomys aquilo	Oecomys trinitatis		Pelea capreolus
Notomys cervinus	Oenomys hypoxanthus		Pelomys fallax
Notomys fuscus	Okapia johnstoni		
Notomys mitchellii			

Pelomys hopkinsi	Petaurus breviceps	Phyllomys dasythrix	Platyrrhinus nigellus
Penthetor lucasi	Petaurus gracilis	Phyllomys lamarum	Platyrrhinus recifinus
Peponocephala electra	Petaurus norfolcensis	Phyllomys medius	Platyrrhinus umbratus
Perameles gunnii	Petinomys	Phyllomys pattoni	Platyrrhinus vittatus
Perameles nasuta	fuscocapillus	Phyllomys sulinus	Plecotus ognevi
Perodicticus edwardsi	Petinomys genibarbis	Phyllostomus discolor	Plecotus sacrimontis
Perodicticus ibeanus	Petinomys setosus	Phyllostomus	Podomys floridanus
Perognathus alticola	Petinomys	elongatus	Poecilogale albinucha
Perognathus amplus	vordermanni	Phyllostomus hastatus	Pogonomys macrourus
Perognathus fasciatus	Petrodromus	Phyllostomus latifolius	Poiana richardsonii
Perognathus flavescens	tetradactylus	Phyllotis wolffsohni	Poliocitellus franklinii
Perognathus flavus	Petrogale brachyotis	Phyllotis xanthopygus	Potamochoerus
Perognathus inornatus	Petrogale burbridgei	Physeter	larvatus
Perognathus	Petrogale coenensis	macrocephalus	Potamochoerus porcus
longimembris	Petrogale concinna	Piliocolobus oustaleti	Potamogale velox
Perognathus merriami	Petrogale godmani	Pipistrellus adamsi	Potorous longipes
Perognathus parvus	Petrogale herberti	Pipistrellus anchietae	Potorous tridactylus
Peromyscus attwateri	Petrogale lateralis	Pipistrellus cadornae	Potos flavus
Peromyscus aztecus	Petrogale mareeba	Pipistrellus ceylonicus	Praomys jacksoni
Peromyscus boylii	Petrogale penicillata	Pipistrellus	Praomys misonnei
Peromyscus	Petrogale rothschildi	coromandra	Praomys petteri
californicus	Petrogale sharmani	Pipistrellus crassulus	Praomys verschureni
Peromyscus crinitus	Petromus typicus	Pipistrellus hesperidus	Presbytis chrysomelas
Peromyscus difficilis	Petromyscus barbouri	Pipistrellus hesperus	Presbytis femoralis
Peromyscus eremicus	Petromyscus collinus	Pipistrellus javanicus	Presbytis frontata
Peromyscus eva	Petromyscus	Pipistrellus kuhlii	Presbytis hosei
Peromyscus fraterculus	monticularis	Pipistrellus musciculus	Presbytis melalophos
Peromyscus furvus	Petromyscus	Pipistrellus nanulus	Presbytis rubicunda
Peromyscus	shortridgei	Pipistrellus pipistrellus	Presbytis siamensis
gossypinus	Petropseudes dahli	Pipistrellus pulveratus	Prionodonte maximus
Peromyscus gratus	Phacochoerus africanus	Pipistrellus raceyi	Prionailurus
Peromyscus hooperi	Phalanger mimicus	Pipistrellus rueppellii	bengalensis
Peromyscus keeni	Phaner pallescens	Pipistrellus rusticus	Prionailurus planiceps
Peromyscus leucopus	Phascogale pirata	Pipistrellus stenopterus	Prionailurus
Peromyscus levipes	Phascogale tapoatafa	Pipistrellus subflavus	rubiginosus
Peromyscus	Phascolarctos cinereus	Pipistrellus tenuis	Prionailurus viverrinus
maniculatus	Phataginus tetradactyla	Pipistrellus westralis	Prionodon linsang
Peromyscus	Phataginus tricuspis	Pithecheir parvus	Prionodon pardicolor
melanophrys	Phenacomys	Pithecia pithecia	Prionomys batesi
Peromyscus melanotis	intermedius	Planigale gilesi	Procavia capensis
Peromyscus merriami	Phenacomys ungava	Planigale ingrami	Procyon cancrivorus
Peromyscus mexicanus	Philander andersoni	Planigale maculata	Procyon lotor
Peromyscus nasutus	Philander frenatus	Planigale tenuirostris	Proechimys breviceauda
Peromyscus	Philander mondolfii	Platacanthomys	Proechimys canicollis
ochraverter	Philander opossum	lasiurus	Proechimys
Peromyscus pectoralis	Philantomba monticola	Platymops setiger	chrysaecolus
Peromyscus polionotus	Philetor brachypterus	Platyrrhinus albericoi	Proechimys cuvieri
Peromyscus slevini	Phloeomys pallidus	Platyrrhinus	Proechimys guairae
Peromyscus truei	Phoca largha	angustirostris	Proechimys
Peropteryx kappleri	Phoca vitulina	Platyrrhinus aurarius	guyannensis
Peropteryx leucoptera	Phocoena dioptrica	Platyrrhinus	Proechimys
Peropteryx macrotis	Phocoena phocoena	brachycephalus	hoplomoides
Peropteryx pallidoptera	Phocoena sinus	Platyrrhinus dorsalis	Proechimys
Petaurillus hosei	Phocoena spinipinnis	Platyrrhinus	longicaudatus
Petaurista elegans	Phocoenoides dalli	fusciventris	Proechimys
Petaurista petaurista	Phoniscus atrox	Platyrrhinus helleri	quaduplicatus
Petaurista philippensis	Phoniscus jagorii	Platyrrhinus incarum	Proechimys simonsi
Petauroides volans	Phoniscus papuensis	Platyrrhinus infuscus	Promops centralis
Petaurus australis	Phylloderma stenops	Platyrrhinus lineatus	Promops nasutus

Pronolagus	Pteronotus personatus	Reithrodontomys	Rhinolophus simulator
crassicaudatus	Pteronotus rubiginosus	mexicanus	Rhinolophus stheno
Pronolagus randensis	Pteronura brasiliensis	Reithrodontomys	Rhinolophus subrufus
Pronolagus rupestris	Pteropus alecto	montanus	Rhinolophus swinnyi
Pronolagus saundersiae	Pteropus conspicillatus	Reithrodontomys	Rhinolophus thomasi
Propithecus verreauxi	Pteropus giganteus	raviventris	Rhinolophus trifoliatus
Proteles cristata	Pteropus hypomelanus	Reithrodontomys	Rhinolophus virgo
Protoxerus stangeri	Pteropus leucopterus	sumichrasti	Rhinolophus
Pseudantechinus	Pteropus melanotus	Rhabdomys pumilio	yunanensis
bilarni	Pteropus neohibernicus	Rheithrosciurus	Rhinonictis aurantia
Pseudantechinus	Pteropus poliocephalus	macrotis	Rhinophylla fischeriae
macdonnellensis	Pteropus scapulatus	Rhinolophus	Rhinophylla pumilio
Pseudantechinus	Pteropus vampyrus	acuminatus	Rhinopoma hardwickii
ningbing	Ptilocercus lowii	Rhinolophus affinis	Rhinosciurus
Pseudantechinus roryi	Pudu puda	Rhinolophus alcyone	laticaudatus
Pseudantechinus	Puma concolor	Rhinolophus arcuatus	Rhipidomys austrinus
woolleyae	Pusa hispida	Rhinolophus arcuatus	Rhipidomys
Pseudocheirus	Pygoderma bilabiatum	Rhinolophus beddomei	leucodactylus
occidentalis	Rangifer tarandus	Rhinolophus	Rhipidomys
Pseudocheirus	Raphicerus campestris	borneensis	macconnelli
peregrinus	Raphicerus melanotis	Rhinolophus capensis	Rhipidomys macrurus
Pseudochirops archeri	Raphicerus sharpei	Rhinolophus clivosus	Rhipidomys mastacalis
Pseudochirulus	Rattus andamanensis	Rhinolophus	Rhipidomys nitela
cinereus	Rattus annandalei	coelophyllus	Rhipidomys
Pseudochirulus	Rattus argentiventer	Rhinolophus cognatus	venezuelae
herbertensis	Rattus burrus	Rhinolophus cohenae	Rhipidomys wetzeli
Pseudomys	Rattus colletti	Rhinolophus creaghi	Rhizomys prunosus
albocinereus	Rattus colletti	Rhinolophus	Rhizomys sumatrensis
Pseudomys	Rattus everetti	damarensis	Rhogeessa io
apodemoides	Rattus exulans	Rhinolophus darlingi	Rhogeessa minutilla
Pseudomys australis	Rattus fuscipes	Rhinolophus denti	Rhogeessa parvula
Pseudomys bolami	Rattus leucopus	Rhinolophus eloquens	Rhynchocyon cirnei
Pseudomys calabyi	Rattus losea	Rhinolophus	Rhynchogale melleri
Pseudomys chapmani	Rattus lutreolus	ferrumequinum	Rhynchomys
Pseudomys chapmani	Rattus nitidus	Rhinolophus fumigatus	soricoides
Pseudomys delicatulus	Rattus norvegicus	Rhinolophus	Rhynchomys tapulao
Pseudomys desertor	Rattus palmarum	hildebrandtii	Rhynchonycteris naso
Pseudomys fumeus	Rattus rattus	Rhinolophus inops	Rousettus aegyptiacus
Pseudomys	Rattus satarae	Rhinolophus landeri	Rousettus
gracilicaudatus	Rattus sordidus	Rhinolophus lepidus	amplexicaudatus
Pseudomys	Rattus stoicus	Rhinolophus luctus	Rousettus lanosus
hermannsburgensis	Rattus tanezumi	Rhinolophus macrotis	Rousettus leschenaultii
Pseudomys higginsii	Rattus tiomanicus	Rhinolophus	Rousettus spinalatus
Pseudomys johnsoni	Rattus tunneyi	malayanus	Rusa marianna
Pseudomys nanus	Rattus villosissimus	Rhinolophus marshalli	Rusa unicolor
Pseudomys	Ratufa affinis	Rhinolophus	Saccolaimus
novaehollandiae	Ratufa bicolor	megaphyllus	flaviventris
Pseudomys	Ratufa indica	Rhinolophus	Saccolaimus mixtus
occidentalis	Ratufa macroura	microglobosus	Saccolaimus peli
Pseudomys oralis	Redunca arundinum	Rhinolophus	Saccolaimus
Pseudomys patrius	Redunca fulvorufula	paradoxolophus	saccolaimus
Pseudorca crassidens	Redunca redunca	Rhinolophus pearsonii	Saccopteryx bilineata
Pseudoryzomys	Reithrodon auritus	Rhinolophus	Saccopteryx canescens
simplex	Reithrodontomys burti	philippinensis	Saccopteryx gymnura
Ptenochirus jagori	Reithrodontomys	Rhinolophus pusillus	Saccopteryx leptura
Pteromys volans	fulvescens	Rhinolophus robinsoni	Saccostomus
Pteromyscus	Reithrodontomys	Rhinolophus rouxii	campestris
pulverulentus	humulis	Rhinolophus sedulus	Saccostomus mearnsi
Pteronotus davyi	Reithrodontomys	Rhinolophus shameli	Saguinus inustus
Pteronotus gymnotus	megalotis	Rhinolophus siamensis	

Saguinus midas	Scotorepens sanborni	Sorex hoyi	Suncus infinitesimus
Saimiri boliviensis	Scotozous dormeri	Sorex isodon	Suncus lixus
Saimiri sciureus	Scutisorex somereni	Sorex jacksoni	Suncus
Saimiri ustus	Semnopithecus	Sorex longirostris	madagascariensis
Sapajus apella	dussumieri	Sorex lyelli	Suncus malayanus
Sapajus cay	Semnopithecus entellus	Sorex maritimensis	Suncus megalura
Sapajus libidinosus	Semnopithecus priam	Sorex merriami	Suncus montanus
Sapajus macrocephalus	Setifer setosus	Sorex minutissimus	Suncus murinus
Sapajus nigritus	Setonix brachyurus	Sorex minutus	Suncus remyi
Sapajus robustus	Sicista betulina	Sorex monticolus	Suncus varilla
Sarcophilus harrisi	Sigmodon alstoni	Sorex nanus	Sundamys infraluteus
Sauromys petrophilus	Sigmodon arizonae	Sorex neomexicanus	Sundamys muelleri
Scalopus aquaticus	Sigmodon fulviventris	Sorex ornatus	Sundasciurus brookei
Scapanus latimanus	Sigmodon hirsutus	Sorex pacificus	Sundasciurus hippurus
Scapanus orarius	Sigmodon hispidus	Sorex palustris	Sundasciurus jentinki
Scapanus townsendii	Sigmodon leucotis	Sorex preblei	Sundasciurus juvencus
Scapteromys tumidus	Sigmodon	Sorex roboratus	Sundasciurus lowii
Sciurillus pusillus	ochrognathus	Sorex rohweri	Sundasciurus tenuis
Sciurocheirus	Sigmodon toltecus	Sorex sonomae	Surdisorex norae
gabonensis	Sigmodontomys alfari	Sorex tenellus	Suricata suricatta
Sciurus aberti	Sminthopsis archeri	Sorex trowbridgii	Sus ahoenobarbus
Sciurus aestuans	Sminthopsis bindi	Sorex tundrensis	Sus barbatus
Sciurus alleni	Sminthopsis butleri	Sorex ugyunak	Sus philippensis
Sciurus arizonensis	Sminthopsis	Sorex unguiculatus	Sus scrofa
Sciurus aureogaster	crassicaudata	Sorex vagrans	Syconycteris australis
Sciurus carolinensis	Sminthopsis dolichura	Sorex veraecrucis	Sylvicapra grimmia
Sciurus deppei	Sminthopsis	Soricomys musseri	Sylvilagus aquaticus
Sciurus flammifer	fuliginosus	Sotalia fluviatilis	Sylvilagus audubonii
Sciurus gilvularis	Sminthopsis gilberti	Sotalia guianensis	Sylvilagus bachmani
Sciurus granatensis	Sminthopsis granulipes	Sousa chinensis	Sylvilagus brasiliensis
Sciurus griseus	Sminthopsis	Speothos venaticus	Sylvilagus cognatus
Sciurus ignitus	griseoventer	Sphaerias blanfordi	Sylvilagus floridanus
Sciurus igniventris	Sminthopsis hirtipes	Sphaeronycteris	Sylvilagus nuttallii
Sciurus nayaritensis	Sminthopsis leucopus	toxophyllum	Sylvilagus palustris
Sciurus niger	Sminthopsis	Spilocus maculatus	Sylvilagus robustus
Sciurus oculatus	longicaudata	Spilogale angustifrons	Sylvisorex granti
Sciurus spadiceus	Sminthopsis macroura	Spilogale gracilis	Sylvisorex johnstoni
Sciurus vulgaris	Sminthopsis murina	Spilogale putorius	Sylvisorex konganensis
Scelonycteris ega	Sminthopsis ooldea	Steatomys krebsii	Sylvisorex ollula
Scoteanax rueppellii	Sminthopsis	Steatomys opimus	Sylvisorex oriundus
Scotoecus albofuscus	psammophila	Steatomys parvus	Symphalangus
Scotoecus hirundo	Sminthopsis virginiae	Steatomys pratensis	syndactylus
Scotomanes ornatus	Sminthopsis youngsoni	Stenella attenuata	Synaptomys borealis
Scotonycteris zenkeri	Smutsia gigantea	Stenella clymene	Synaptomys cooperi
Scotophilus	Smutsia temminckii	Stenella coeruleoalba	Syncerus caffer
andrewreborii	Sooretamys angouya	Stenella frontalis	Tachyglossus aculeatus
Scotophilus dinganii	Sorex alaskanus	Stenella longirostris	Tachyoryctes
Scotophilus heathii	Sorex araneus	Steno bredanensis	splendens
Scotophilus kuhlii	Sorex arcticus	Stochomys	Tadarida aegyptiaca
Scotophilus	Sorex arizonae	longicaudatus	Tadarida brasiliensis
leucogaster	Sorex bairdi	Sturnira erythromos	Tadarida fulminans
Scotophilus nigrita	Sorex bendirii	Sturnira lilium	Tadarida latouchei
Scotophilus nux	Sorex caecutiens	Sturnira ludovici	Tadarida lobata
Scotophilus robustus	Sorex cinereus	Sturnira magna	Tadarida ventralis
Scotophilus tandrefana	Sorex daphaenodon	Sturnira oporaphilum	Talpa altaica
Scotophilus viridis	Sorex dispar	Sturnira tildae	Tamandua mexicana
Scotorepens balstoni	Sorex fumeus	Suncus dayi	Tamandua tetradactyla
Scotorepens greyii	Sorex gracillimus	Suncus etruscus	Tamias striatus
Scotorepens orion	Sorex haydeni	Suncus hosei	Tamiasciurus douglasii

Tamiasciurus hudsonicus	Thylamys karimii	Tupaia longipes	Vespadelus douglasorum
Tamiops macclellandii	Thylamys venustus	Tupaia minor	Vespadelus finlaysoni
Taphozous australis	Thylogale billardieri	Tupaia montana	Vespadelus pumilus
Taphozous georgianus	Thylogale stigmatica	Tupaia nicobarica	Vespadelus regulus
Taphozous hilli	Thylogale thetis	Tupaia palawanensis	Vespadelusroughtoni
Taphozous kapalgensis	Thyroptera discifera	Tupaia picta	Vespadelus vulturinus
Taphozous longimanus	Thyroptera tricolor	Tupaia tana	Vespertilio murinus
Taphozous mauritanus	Thyroptera wynneae	Tursiops aduncus	Vespertilio sinensis
Taphozous melanopogon	Tolypeutes matacus	Tursiops truncatus	Viverra civettina
Taphozous nudiventris	Tonatia bidens	Tylonycteris pachypus	Viverra megaspila
Taphozous perforatus	Tonatia saurophila	Tylonycteris robustula	Viverra tangalunga
Taphozous theobaldi	Trachops cirrhosus	Uranomys ruddi	Viverra zibetha
Taphozousroughtoni	Trachypithecus	Urocitellus armatus	Viverricula indica
Tapirus indicus	Trachypithecus johnii	Urocitellus beldingi	Vombatus ursinus
Tapirus terrestris	Trachypithecus	Urocitellus canus	Vulpes bengalensis
Tarsipes rostratus	Trachypithecus obscurus	Urocitellus columbianus	Vulpes chama
Tarsius bancanus	Trachypithecus phayrei	Urocitellus elegans	Vulpes corsac
Tasmacetus shepherdii	Trachypithecus vetulus	Urocitellus mollis	Vulpes lagopus
Tatera indica	Tragelaphus eurycerus	Urocitellus parryi	Vulpes macrotis
Taterillus congicus	Tragelaphus imberbis	Urocitellus richardsonii	Vulpes velox
Taterillus emini	Tragelaphus oryx	Urocitellus townsendii	Vulpes vulpes
Taxidea taxus	Tragelaphus scriptus	Urocitellus washingtoni	Wallabia bicolor
Tayassu pecari	Tragelaphus spekii	Urocyon	Wyulda squamicaudata
Tenrec ecaudatus	Tragelaphus strepsiceros	Urocyon cinereoargenteus	Xeromys myoides
Tetracerus quadricornis	Tragulus kanchil	Urocyon littoralis	Xerospermophilus mohavensis
Thallomys loringi	Tragulus napu	Uroderma bilobatum	Xerospermophilus spilosoma
Thallomys nigricauda	Transandinomys talamancae	Uroderma magnirostrum	Xerospermophilus tereticaudus
Thallomys paedulus	Tremarctos ornatus	Uromys	Xerus erythropus
Thalpomys lasiotis	Triaenops afer	Uromys caudimaculatus	Xerus inauris
Thamnomys schoutedeni	Triaenops persicus	Uromys hadrourus	Xerus rutilus
Thaptomys nigrita	Triaenops rufus	Ursus americanus	Zaedyus pichiy
Thomasomys aureus	Trichechus manatus	Ursus arctos	Zalophus californianus
Thomasomys daphne	Trichosurus caninus	Ursus maritimus	Zapus hudsonius
Thomomys bottae	Trichosurus cunninghami	Ursus thibetanus	Zapus princeps
Thomomys bulbivorus	Trichosurus vulpecula	Vampyressa melissa	Zapus trinotatus
Thomomys idahoensis	Trichys fasciculata	Vampyressa pusilla	Zelotomys
Thomomys mazama	Trinomys iheringi	Vampyressa thyone	hildegardeae
Thomomys monticola	Trinomys setosus	Vampyriscus bidens	Zelotomys woosnami
Thomomys talpoides	Trinomyces setosus	Vampyrodes caraccioli	Zenkerella insignis
Thomomys townsendii	Trinomyces setosus	Vampyrum spectrum	Ziphius cavirostris
Thomomys umbrinus	Tryphomys adustus	Vandeleuria nilagirica	Zygodontomys brevicauda
Thrichomys pachyurus	Tscherskia triton	Vandeleuria oleracea	Zyzomys argurus
Thryonomys gregorianus	Tupaia belangeri	Vespadelus baverstocki	Zyzomys maini
Thryonomys swinderianus	Tupaia dorsalis	Vespadelus caurinus	Zyzomys pedunculatus
	Tupaia glis	Vespadelus darlingtoni	Zyzomys woodwardia
	Tupaia gracilis		
	Tupaia javanica		

Tab. S7. List of bird species used in the analysis

<i>Abroscopus albogularis</i>	<i>Acrocephalus griseldis</i>	<i>Alaudala rufescens</i>	<i>Amytornis housei</i>
<i>Abroscopus superciliaris</i>	<i>Acrocephalus newtoni</i>	<i>Alaudala somalica</i>	<i>Amytornis modestus</i>
<i>Acanthagenys rufogularis</i>	<i>Acrocephalus orientalis</i>	<i>Alca torda</i>	<i>Amytornis purnelli</i>
<i>Acanthis flammea</i>	<i>Acrocephalus palustris</i>	<i>Alcippe brunneicauda</i>	<i>Amytornis striatus</i>
<i>Acanthiza apicalis</i>	<i>Acrocephalus rufescens</i>	<i>Alcippe morrisonia</i>	<i>Amytornis woodwardi</i>
<i>Acanthiza chrysorrhoa</i>	<i>Acrocephalus schoenobaenus</i>	<i>Alcippe peracensis</i>	<i>Anabacerthia amaurotis</i>
<i>Acanthiza ewingii</i>	<i>Acrocephalus scirpaceus</i>	<i>Alcippe poioicephala</i>	<i>Anabacerthia lichtensteini</i>
<i>Acanthiza inornata</i>	<i>Acrocephalus stentoreus</i>	<i>Alectrurus risora</i>	<i>Anabacerthia ruficaudata</i>
<i>Acanthiza iredalei</i>	<i>Acrocephalus tangorum</i>	<i>Alectrurus tricolor</i>	<i>Anabacerthia striaticollis</i>
<i>Acanthiza katherina</i>	<i>Actinodura radcliffei</i>	<i>Alethe castanea</i>	<i>Anabathmis reichenbachii</i>
<i>Acanthiza lineata</i>	<i>Aechmophorus occidentalis</i>	<i>Alle alle</i>	<i>Anabazenops fuscus</i>
<i>Acanthiza nana</i>	<i>Aegithalos caudatus</i>	<i>Alophoixus finschii</i>	<i>Anairetes flavirostris</i>
<i>Acanthiza pusilla</i>	<i>Aegithina lafresnayeii</i>	<i>Alophoixus frater</i>	<i>Anairetes parulus</i>
<i>Acanthiza reguloides</i>	<i>Aegithina nigrolutea</i>	<i>Alophoixus ochraceus</i>	<i>Anaplectes leuconotos</i>
<i>Acanthiza robustirostris</i>	<i>Aegithina tiphia</i>	<i>Alophoixus pallidus</i>	<i>Anaplectes rubriceps</i>
<i>Acanthiza uropygialis</i>	<i>Aegithina viridissima</i>	<i>Alophoixus phaeocephalus</i>	<i>Ancistrops strigilatus</i>
<i>Acanthorhynchus superciliosus</i>	<i>Aegithina cristatella</i>	<i>Alophoixus ruficrissus</i>	<i>Andropadus importunus</i>
<i>Acanthorhynchus tenuirostris</i>	<i>Aethia psittacula</i>	<i>Alophoixus tephrogenys</i>	<i>Anhinga rufa</i>
<i>Acanthornis magna</i>	<i>Aethia pusilla</i>	<i>Alopocheilidon fucata</i>	<i>Anisognathus flavinucha</i>
<i>Accipiter badius</i>	<i>Aethia pygmaea</i>	<i>Amadina erythrocephala</i>	<i>Anisognathus igniventris</i>
<i>Accipiter bicolor</i>	<i>Aethopyga bella</i>	<i>Amandava amandava</i>	<i>Anisognathus lacrymosus</i>
<i>Accipiter castanilius</i>	<i>Aethopyga flagrans</i>	<i>Amandava subflava</i>	<i>Anomalospiza imberbis</i>
<i>Accipiter cirrocephalus</i>	<i>Aethopyga gouldiae</i>	<i>Amaurospiza moesta</i>	<i>Anser fabalis</i>
<i>Accipiter poliogaster</i>	<i>Aethopyga pulcherrima</i>	<i>Amazona bodini</i>	<i>Anthipes monileger</i>
<i>Accipiter striatus</i>	<i>Aethopyga saturata</i>	<i>Amazona dufresniana</i>	<i>Anthipes solitarius</i>
<i>Accipiter tachiro</i>	<i>Aethopyga shelleyi</i>	<i>Amazona farinosa</i>	<i>Anthobaphes violacea</i>
<i>Accipiter toussenelii</i>	<i>Aethopyga siparaja</i>	<i>Amblycercus holosericeus</i>	<i>Anthochaera carunculata</i>
<i>Accipiter trivirgatus</i>	<i>Aethopyga temminckii</i>	<i>Amblyospiza albifrons</i>	<i>Anthochaera chrysoptera</i>
<i>Achaetops pycnopygius</i>	<i>Afropavo congensis</i>	<i>Amblyramphus holosericeus</i>	<i>Anthochaera lunulata</i>
<i>Acridotheres cristatellus</i>	<i>Agelaioides badius</i>	<i>Ammospiza albifrons</i>	<i>Anthochaera paradoxa</i>
<i>Acridotheres fuscus</i>	<i>Agelaius phoeniceus</i>	<i>Ammospiza caudacuta</i>	<i>Anthochaera phrygia</i>
<i>Acridotheres ginginianus</i>	<i>Agelaius tricolor</i>	<i>Ammospiza leconteii</i>	<i>Anthoscopus caroli</i>
<i>Acridotheres grandis</i>	<i>Agelastus cyanopus</i>	<i>Ammospiza maritima</i>	<i>Anthoscopus flavifrons</i>
<i>Acridotheres tristis</i>	<i>Agelastus thilius</i>	<i>Ammospiza nelsoni</i>	<i>Anthoscopus minutus</i>
<i>Acritillas indica</i>	<i>Agricola infuscatus</i>	<i>Ammospiza nelsoni</i>	<i>Anthoscopus musculus</i>
<i>Acrocephalus agricola</i>	<i>Agricola pallidus</i>	<i>Ampeliceps coronatus</i>	<i>Anthoscopus sylviella</i>
<i>Acrocephalus arundinaceus</i>	<i>Agriornis lividus</i>	<i>Ampelioides tshudii</i>	<i>Anthreptes aurantius</i>
<i>Acrocephalus australis</i>	<i>Agriornis micropterus</i>	<i>Ampelion rubrocrissatus</i>	<i>Anthreptes griseigularis</i>
<i>Acrocephalus bistrigiceps</i>	<i>Agriornis montanus</i>	<i>Ampelion rufaxilla</i>	<i>Anthreptes longuemareii</i>
<i>Acrocephalus concinens</i>	<i>Agriornis murinus</i>	<i>Amphispiza bilineata</i>	<i>Anthreptes malacensis</i>
<i>Acrocephalus dumetorum</i>	<i>Agropsar philippensis</i>	<i>Amphispiza</i>	<i>Anthreptes orientalis</i>
<i>Acrocephalus gracilirostris</i>	<i>Agropsar sturninus</i>	<i>Amphispiza quinquestriata</i>	
	<i>Ailuroedus crassirostris</i>	<i>Amytornis barbatus</i>	
	<i>Ailuroedus melanotis</i>	<i>Amytornis goyderi</i>	
	<i>Aimophila rufescens</i>		
	<i>Aimophila ruficeps</i>		
	<i>Akletos melanoceps</i>		
	<i>Alauda arvensis</i>		
	<i>Alauda gulgula</i>		
	<i>Alaudala raytal</i>		

Anthreptes rhodolaemus	Aphelocephala pectoralis	Arremon brunneinucha	Automolus rufipileatus
Anthreptes seimundi	Aphelocoma	Arremon flavirostris	Automolus subulatus
Anthreptes simplex	californica	Arremon perijanus	Aythya valisineria
Anthreptes	Aphelocoma	Arremon schlegeli	Baeolophus
tephrolaemus	coerulescens	Arremon semitorquatus	atricristatus
Anthropoides	Aphelocoma	Arremon taciturnus	Baeolophus bicolor
paradiseus	wollweberi	Arremon torquatus	Baeolophus inornatus
Anthropoides virgo	Aphrastura spinicauda	Arremonops conirostris	Baeolophus ridgwayi
Anthus bogotensis	Aplonis metallica	Arremonops	Baeolophus wollweberi
Anthus brachyurus	Aplonis panayensis	rufivirgatus	Baeopogon clamans
Anthus caffer	Aprositornis disjuncta	Arremonops tocuyensis	Baeopogon indicator
Anthus campestris	Aptenodytes	Arses kaupi	Balaeniceps rex
Anthus cervinus	patagonicus	Arses lorealis	Balearica regulorum
Anthus chacoensis	Apus nipalensis	Artamella viridis	Basileuterus auricapilla
Anthus cinnamomeus	Aquila heliaca	Artamus cinereus	Basileuterus belli
Anthus correndera	Aquila nipalensis	Artamus cyanopterus	Basileuterus cabanisi
Anthus crenatus	Aquila rapax	Artamus fuscus	Basileuterus
Anthus godlewskii	Aquila spilogaster	Artamus leucoryn	culicivorus
Anthus gustavi	Aquila verreauxii	Artamus minor	Basileuterus
Anthus hellmayri	Arachnothera affinis	Artamus personatus	hypoleucus
Anthus hodgsoni	Arachnothera	Artamus superciliosus	Basileuterus
Anthus hoeschi	chrysogenys	Artemisiospiza belli	lachrymosus
Anthus leucophrys	Arachnothera clarae	Artemisiospiza	Basileuterus rufifrons
Anthus lutescens	Arachnothera	nevadensis	Basileuterus tristriatus
Anthus nattereri	crassirostris	Arundinax aedon	Batara cinerea
Anthus nilghiriensis	Arachnothera diluitor	Arundinicola	Bathmocercus rufus
Anthus	Arachnothera	leucocephala	Batis capensis
novaeseelandiae	flavigaster	Asemospiza fuliginosa	Batis erlangeri
Anthus nyassae	Arachnothera	Asemospiza obscura	Batis ituriensis
Anthus pratensis	hypogrammica	Ashbyia lovensis	Batis mixta
Anthus richardi	Arachnothera juliae	Asthenes anthoides	Batis molitor
Anthus rubescens	Arachnothera	Asthenes harterti	Batis occulta
Anthus rufulus	longirostra	Asthenes modesta	Batis perkeo
Anthus similis	Arachnothera magna	Asthenes pyrrholeuca	Batis pririt
Anthus spragueii	Arachnothera modesta	Asthenes urubambensis	Berlepschia rikeri
Anthus trivialis	Arachnothera robusta	Asthenes wyatti	Bernieria
Anthus vaalensis	Aramides axillaris	Atimastillas flavigula	madagascariensis
Antigone rubicunda	Aramides cajaneus	Atlapetes fulviceps	Bias musicus
Antilophia galeata	Aramides saracura	Atlapetes nigrifrons	Biatas nigropectus
Antrostomus vociferus	Aramides ypecaha	Atlapetes personatus	Bleda notatus
Anumbius annumbi	Ardea intermedia	Atlapetes pileatus	Bleda syndactylus
Apalis alticola	Ardea plumifera	Atlapetes rufinucha	Bleda ugandae
Apalis cinerea	Ardena carneipes	Atlapetes schistaceus	Blythipicus
Apalis flavida	Ardena creatopus	Atrichornis rufescens	rubiginosus
Apalis goslingi	Ardena gravis	Atticora fasciata	Bocagia minuta
Apalis jacksoni	Ardena grisea	Atticora tibialis	Bolemoreus frenatus
Apalis karamojae	Ardena pacifica	Attila bolivianus	Bombycilla cedrorum
Apalis melanocephala	Ardena tenuirostris	Attila cinnamomeus	Bombycilla garrulus
Apalis nigriceps	Argya aylmeri	Attila citriniventris	Bombycilla japonica
Apalis porphyrolaema	Argya caudata	Attila phoenicurus	Bonasa bonasia
Apalis rufogularis	Argya malcolmi	Attila rufus	Brachycope anomala
Apalis thoracica	Argya rubiginosa	Attila spadiceus	Brachypodius atriceps
Aphanotriccus audax	Argya subrufa	Auriparus flaviceps	Brachypodius
Aphelocephala	Arizelocichla	Automolus infuscatus	priocephalus
leucopsis	masukuensis	Automolus	Brachypteryx cruralis
Aphelocephala	Arizelocichla nigriceps	leucophthalmus	Brachypteryx
nigrincta	Arizelocichla	ochrolaemus	erythrogyna
	striifacies	Automolus paraensis	Brachypteryx
			leucophris

Brachypteryx poliogyna	Calendulauda albescens	Campylorhynchus zonatus	Ceratopipra erythrocephala
Brachypteryx saturata	Calendulauda alopex	Cantorchilus	Ceratopipra rubrocapilla
Bradornis boehmi	Calendulauda poecilosterna	guarayanus	Cercococcyx montanus
Bradornis comitatus	Calendulauda sabota	Cantorchilus leucotis	Cercococcyx olivinus
Bradornis fuliginosus	Calicalicus	Cantorchilus longirostris	Cercomacra brasiliana
Bradornis mariquensis	madagascariensis	Capsiempis flaveola	Cercomacra
Bradornis microrhynchus	Calicalicus rufocarpalis	Cardellina canadensis	cinerascens
Bradypterus baboecala	Calidris ferruginea	Cardellina pusilla	Cercomacra melanaria
Bradypterus barratti	Calidris pygmaea	Cardellina rubrifrons	Cercomacroides
Bradypterus centralis	Caligavis chrysops	Cardinalis cardinalis	fuscicauda
Bradypterus	Calliope calliope	Cardinalis phoeniceus	Cercomacroides
cinnamomeus	Calliope obscura	Cardinalis sinuatus	nigrescens
Bradypterus grandis	Calonectris borealis	Carduelis carduelis	Cercomacroides
Bradypterus lopezi	Calonectris leucomelas	Carpodacus erythrinus	tyrannina
Bubalornis albirostris	Calyptocichla serinus	Carpodacus roseus	Cercotrichas galactotes
Bubalornis niger	Calyptomena hosii	Carpodacus sibiricus	Cercotrichas hartlaubi
Bulweria bulwerii	Calyptomena viridis	Carpornis cucullata	Cercotrichas
Buphagus africanus	Calyptomena whiteheadi	Carterornis leucotis	leucophrys
Buphagus	Camaroptera brachyura	Caryothraustes	Cercotrichas paena
erythrorhynchus	Camaroptera	canadensis	Cereopsis
Buthraupis montana	chloronota	Caryothraustes celaeno	novaehollandiae
Cacatua	Camaroptera	Caryothraustes	Cerorhinca monocerata
haematurophygia	superciliaris	erythromelas	Certhia americana
Cacicus cela	Camaroptera toroensis	Casiornis rufus	Certhia familiaris
Cacicus chrysonotus	Campephaga flava	Castanozoster	Certhia manipurensis
Cacicus chrysopterus	Campephaga petiti	thoracicus	Certhiasomus
Cacicus haemorrhous	Campephaga	Catamblyrhynchus	stictolaemus
Cacicus solitarius	phoenicea	diadema	Certhiaxis
Cacicus uropygialis	Campephaga	Catamenia analis	cinnamomeus
Cacicus vitellinus	quiscalina	Catamenia homochroa	Certhilauda
Calamanthus	Campicoloides	Catamenia inornata	semitorquata
campestris	bifasciatus	Catharacta antarctica	Certhilauda
Calamanthus cautus	Camptostoma imberbe	Catharacta skua	subcoronata
Calamanthus	Camptostoma	Catharus aurantiirostris	Certhionyx variegatus
fuliginosus	obsoletum	Catharus bicknelli	Ceryle rudis
Calamanthus	Campylorhamphus	Catharus dryas	Cettia
montanellus	falcularius	Catharus frantzii	castaneocoronata
Calamanthus	Campylorhamphus	Catharus fuscater	Ceuthmochares aereus
pyrrhopygius	probatas	Catharus fuscescens	Ceyx azureus
Calamonastes	Campylorhamphus	Catharus guttatus	Chaetops frenatus
fasciolatus	procurvoides	Catharus mexicanus	Chaetornis striata
Calamonastes simplex	Campylorhamphus	Catharus minimus	Chaetura meridionalis
Calamonastes stierlingi	pusillus	Catharus occidentalis	Chaetura pelagica
Calamonastes undosus	Campylorhamphus	Catharus swainsoni	Chalcites lucidus
Calamonastides	trochilirostris	Catharus ustulatus	Chalcites minutillius
gracilirostris	Campylorhynchus	Catherpes mexicanus	Chalcites osculans
Calamospiza	brunneicapillus	Ceblepyris caesius	Chalcomitra
melanocorys	Campylorhynchus	Ceblepyris cinereus	amethystina
Calandrella acutirostris	griseus	Ceblepyris pectoralis	Chalcomitra hunteri
Calandrella cinerea	Campylorhynchus	Cecropis abyssinica	Chalcomitra rubescens
Calandrella	gularis	Cecropis cucullata	Chalcomitra
dukhunensis	Campylorhynchus	Cecropis daurica	senegalensis
Calcarius lapponicus	nuchalis	Cecropis hyperythra	Chalcoparia singalensis
Calcarius ornatus	Campylorhynchus	Cephalopterus ornatus	Chalcophaps indica
Calcarius pictus	turdinus	Ceratopipra	Chalcophaps
Calendulauda		chloromeros	longirostris
africanoides		Ceratopipra cornuta	Chalcostigma ruficeps

Chalybura buffonii	Chlamydera	Chlorostilbon russatus	Cincloramphus
Chamaea fasciata	cerviniventris	Chondestes grammacus	timoriensis
Chamaeetes goudotii	Chlamydera guttata	Chondrohierax	Cinlosoma alisteri
Chamaetylas	Chlamydera maculata	uncinatus	Cinlosoma
poliocephala	Chlamydera nuchalis	Chordeiles acutipennis	castaneothorax
Chamaeza	Chlamydochaera	Chordeiles minor	Cinlosoma
campanisona	jefferyi	Chordeiles nacunda	castanotum
Chamaeza mollissima	Chlidonias hybrida	Chordeiles pusillus	Cinlosoma
Chamaeza nobilis	Chlidonias niger	Chordeiles rupestris	cinnamomeum
Chamaeza ruficauda	Chloebia gouldiae	Chrysococcyx caprius	Cinlosoma
Charadrius	Chloephaga hybrida	Chrysococcyx cupreus	marginatum
alexandrinus	Chloephaga picta	Chrysococcyx klaas	Cinlosoma punctatum
Charadrius alticola	Chloephaga	Chrysococcyx	Cinclus leucocephalus
Charadrius asiaticus	poliocephala	maculatus	Cinclus mexicanus
Charadrius bicinctus	Chloephaga rubidiceps	Chrysocolaptes	Cinclus pallasii
Charadrius bifrontatus	Chloris ambigua	haematribon	Cinnycerthia fulva
Charadrius collaris	Chloris chloris	Chrysocolaptes	Cinnycerthia unirufa
Charadrius dealbatus	Chloris sinica	stricklandi	Cinnyricinclus
Charadrius dubius	Chloroceryle inda	Chrysocolaptes validus	leucogaster
Charadrius	Chlorocharis emiliae	Chrysolampis	Cinnyris afer
falklandicus	Chlorochrysa	mosquitus	Cinnyris asiaticus
Charadrius forbesi	fulgentissima	Chrysominla strigula	Cinnyris batesi
Charadrius hiaticula	Chlorocichla	Chrysomma sinense	Cinnyris bifasciatus
Charadrius	falkensteini	Chrysomus	Cinnyris bouvieri
leschenaultii	Chlorocichla	icterocephalus	Cinnyris chalybeus
Charadrius marginatus	flaviventris	Chrysomus ruficapillus	Cinnyris chloropygius
Charadrius melodus	Chlorocichla laetissima	Chrysophlegma	Cinnyris coccinigastrus
Charadrius modestus	Chlorocichla simplex	flavinucha	Cinnyris congensis
Charadrius montanus	Chlorophanes spiza	Chrysophlegma humii	Cinnyris cupreus
Charadrius nivosus	Chlorophoneus bocagei	Chrysophlegma	Cinnyris erythrocerus
Charadrius pallidus	Chlorophoneus	miniaceum	Cinnyris fuscus
Charadrius pecuarius	multicolor	Chrysuronia oenone	Cinnyris gertrudis
Charadrius peronii	Chlorophoneus	Ciccaba albitarsis	Cinnyris habessinicus
Charadrius placidus	nigrifrons	Ciccaba huhula	Cinnyris johannae
Charadrius ruficapillus	Chlorophoneus	Ciccaba nigrolineata	Cinnyris lotenius
Charadrius	olivaceus	Ciccaba virgata	Cinnyris mariquensis
semipalmatus	Chlorophoneus	Cichladusa arquata	Cinnyris mediocris
Charadrius thoracicus	sulfureopectus	Cichladusa guttata	Cinnyris melanogastrus
Charadrius tricoloris	Chlorophonia cyanea	Cichladusa ruficauda	Cinnyris minullus
Charadrius veredus	Chloropsis aurifrons	Cichlocolaptes	Cinnyris nectarinioides
Charadrius vociferus	Chloropsis cyanopogon	leucophrus	Cinnyris notatus
Charadrius wilsonia	Chloropsis hardwickii	Cichlopsis gularis	Cinnyris osea
Charitospiza eucosma	Chloropsis jerdoni	Cichlopsis leucogenys	Cinnyris pulchellus
Chelidoptera tenebrosa	Chloropsis	Ciconia abdimii	Cinnyris reichenowi
Chelidorhynch	kinabaluensis	Ciconia boyciana	Cinnyris shelleyi
hypoxanthus	Chloropsis media	Ciconia ciconia	Cinnyris sovimanga
Chenonetta jubata	Chloropsis	Ciconia episcopus	Cinnyris superbus
Cheramoeca	moluccensis	Ciconia maguari	Cinnyris talatala
leucosterna	Chloropsis	Ciconia microscelis	Cinnyris venustus
Chersomanes	palawanensis	Ciconia nigra	Circaetus cinerascens
albofasciata	Chloropsis sonnerati	Ciconia stormi	Circaetus cinereus
Chionis albus	Chloropsis venusta	Cinclodes albiventris	Circaetus gallicus
Chionodacryon	Chlorospingus	Cinclodes fuscus	Circaetus pectoralis
speculiferum	flavopectus	Cinclodes oustaleti	Circus aeruginosus
Chiroxiphia boliviana	Chlorostilbon gibsoni	Cinclodes pabsti	Circus approximans
Chiroxiphia caudata	Chlorostilbon lucidus	Cinclodes patagonicus	Circus assimilis
Chiroxiphia lanceolata	Chlorostilbon	Cincloramphus cruralis	Circus buffoni
Chiroxiphia pareola	mellisugus	Cincloramphus	Circus cinereus
	Chlorostilbon notatus	mathewsi	Circus cyaneus

<i>Circus hudsonius</i>	<i>Clangula hyemalis</i>	<i>Colius colius</i>	<i>Contopus pertinax</i>
<i>Circus macrosceles</i>	<i>Claravis geoffroyi</i>	<i>Colius striatus</i>	<i>Contopus sordidulus</i>
<i>Circus macrourus</i>	<i>Claravis mondetoura</i>	<i>Collocalia esculenta</i>	<i>Contopus virens</i>
<i>Circus maurus</i>	<i>Claravis pretiosa</i>	<i>Collocalia linchi</i>	<i>Conuropsis</i>
<i>Circus melanoleucos</i>	<i>Clibanornis</i>	<i>Collocalia troglodytes</i>	<i>carolinensis</i>
<i>Circus pygargus</i>	<i>dendrocolaptoides</i>	<i>Colluricincla boweri</i>	<i>Copsychus</i>
<i>Circus ranivorus</i>	<i>Clibanornis rectirostris</i>	<i>Colluricincla</i>	<i>mindanensis</i>
<i>Circus spilonotus</i>	<i>Clibanornis</i>	<i>harmonica</i>	<i>Copsychus pica</i>
<i>Cissa chinensis</i>	<i>rubiginosus</i>	<i>Colluricincla</i>	<i>Copsychus saularis</i>
<i>Cissa jefferyi</i>	<i>Climacteris affinis</i>	<i>megarhyncha</i>	<i>Coracias abyssinicus</i>
<i>Cissomela pectoralis</i>	<i>Climacteris erythroptus</i>	<i>Colluricincla</i>	<i>Coracias affinis</i>
<i>Cissopis leverianus</i>	<i>Climacteris melanurus</i>	<i>woodwardi</i>	<i>Coracias benghalensis</i>
<i>Cisticola aberrans</i>	<i>Climacteris picumnus</i>	<i>Colonia colonus</i>	<i>Coracias caudatus</i>
<i>Cisticola angusticauda</i>	<i>Climacteris rufus</i>	<i>Colorhamphus</i>	<i>Coracias garrulus</i>
<i>Cisticola anonymus</i>	<i>Clytactantes alixii</i>	<i>parvirostris</i>	<i>Coracias naevius</i>
<i>Cisticola aridulus</i>	<i>Clytolaema rubricauda</i>	<i>Columba arquatrix</i>	<i>Coracias spatulatus</i>
<i>Cisticola ayresii</i>	<i>Clytospiza monteiri</i>	<i>Columba delegorguei</i>	<i>Coracina dobsoni</i>
<i>Cisticola bodessa</i>	<i>Cnemarchus</i>	<i>Columba elphinstonii</i>	<i>Coracina javensis</i>
<i>Cisticola brachypterus</i>	<i>erythroptus</i>	<i>Columba guinea</i>	<i>Coracina larvata</i>
<i>Cisticola brunnescens</i>	<i>Cnemotriccus fuscatus</i>	<i>Columba iriditorques</i>	<i>Coracina lineata</i>
<i>Cisticola cantans</i>	<i>Coccopygia melanotis</i>	<i>Columba leucomela</i>	<i>Coracina macei</i>
<i>Cisticola carruthersi</i>	<i>Coccopygia quartinia</i>	<i>Columba livia</i>	<i>Coracina maxima</i>
<i>Cisticola cherina</i>	<i>Coccothraustes</i>	<i>Columba palumboides</i>	<i>Coracina</i>
<i>Cisticola chiniana</i>	<i>coccothraustes</i>	<i>Columba punicea</i>	<i>novaehollandiae</i>
<i>Cisticola chubbi</i>	<i>Coccyua cinerea</i>	<i>Columba rupestris</i>	<i>Coracina papuensis</i>
<i>Cisticola cinereolus</i>	<i>Coccyua minuta</i>	<i>Columba vitiensis</i>	<i>Coracina striata</i>
<i>Cisticola cinnamomeus</i>	<i>Coccyua pumila</i>	<i>Columbina cyanopsis</i>	<i>Coracopsis nigra</i>
<i>Cisticola dambo</i>	<i>Coccyzus americanus</i>	<i>Columbina inca</i>	<i>Coracopsis vasa</i>
<i>Cisticola erythroptus</i>	<i>Coccyzus</i>	<i>Columbina minuta</i>	<i>Coragyps atratus</i>
<i>Cisticola exilis</i>	<i>erythroptus</i>	<i>Columbina passerina</i>	<i>Corapipo gutturalis</i>
<i>Cisticola fulvicapilla</i>	<i>Coccyzus euleri</i>	<i>Columbina picui</i>	<i>Corapipo leucorrhoea</i>
<i>Cisticola hunteri</i>	<i>Coccyzus lansbergi</i>	<i>Columbina squammata</i>	<i>Corcorax</i>
<i>Cisticola juncidis</i>	<i>Cochoa beccarii</i>	<i>Columbina talpacoti</i>	<i>melanoramphos</i>
<i>Cisticola lais</i>	<i>Cochoa viridis</i>	<i>Conirostrum albifrons</i>	<i>Cormobates</i>
<i>Cisticola lateralis</i>	<i>Coeligena consita</i>	<i>Conirostrum bicolor</i>	<i>leucophaea</i>
<i>Cisticola luapula</i>	<i>Coeligena helianthea</i>	<i>Conirostrum</i>	<i>Corvinella corvina</i>
<i>Cisticola marginatus</i>	<i>Coeligena inca</i>	<i>ferrugineiventris</i>	<i>Corvus albicollis</i>
<i>Cisticola nana</i>	<i>Coereba flaveola</i>	<i>Conirostrum</i>	<i>Corvus albus</i>
<i>Cisticola natalensis</i>	<i>Colaptes aeruginosus</i>	<i>leucogenys</i>	<i>Corvus bennetti</i>
<i>Cisticola pipiens</i>	<i>Colaptes atriceps</i>	<i>Conirostrum sitticolor</i>	<i>Corvus</i>
<i>Cisticola robustus</i>	<i>Colaptes auratus</i>	<i>Conirostrum</i>	<i>brachyrhynchus</i>
<i>Cisticola rufilatus</i>	<i>Colaptes cafer</i>	<i>speciosum</i>	<i>Corvus capensis</i>
<i>Cisticola subruficapilla</i>	<i>Colaptes campestris</i>	<i>Conopophaga</i>	<i>Corvus caurinus</i>
<i>Cisticola textrix</i>	<i>Colaptes campestrisoides</i>	<i>ardesiaca</i>	<i>Corvus corax</i>
<i>Cisticola tinniens</i>	<i>Colaptes chrysoides</i>	<i>Conopophaga lineata</i>	<i>Corvus corone</i>
<i>Cisticola troglodytes</i>	<i>Colaptes</i>	<i>Conopophaga</i>	<i>Corvus coronoides</i>
<i>Cisticola woosnami</i>	<i>melanochloros</i>	<i>melanops</i>	<i>Corvus cryptoleucus</i>
<i>Cistothorus palustris</i>	<i>Colaptes melanolaimus</i>	<i>Conopophila</i>	<i>Corvus dauuricus</i>
<i>Cistothorus platensis</i>	<i>Colaptes pitius</i>	<i>albogularis</i>	<i>Corvus enca</i>
<i>Cistothorus stellaris</i>	<i>Colaptes punctigula</i>	<i>Conopophila</i>	<i>Corvus frugilegus</i>
<i>Cladorhynchus</i>	<i>Colaptes rivolii</i>	<i>rufogularis</i>	<i>Corvus imparatus</i>
<i>leucocephalus</i>	<i>Colaptes rubiginosus</i>	<i>Conopophila whitei</i>	<i>Corvus macrorhynchus</i>
<i>Clamator coromandus</i>	<i>Colaptes rupicola</i>	<i>Conothraupis</i>	<i>Corvus mellori</i>
<i>Clamator glandarius</i>	<i>Colibri coruscans</i>	<i>mesoleuca</i>	<i>Corvus orru</i>
<i>Clamator jacobinus</i>	<i>Colibri delphinae</i>	<i>Contopus albogularis</i>	<i>Corvus ossifragus</i>
<i>Clamator levaillantii</i>	<i>Colibri serrirostris</i>	<i>Contopus bogotensis</i>	<i>Corvus rhipidurus</i>
<i>Clanga clanga</i>	<i>Colibri thalassinus</i>	<i>Contopus cinereus</i>	<i>Corvus splendens</i>
<i>Clanga hastata</i>	<i>Colinus cristatus</i>	<i>Contopus cooperi</i>	<i>Corvus tasmanicus</i>
<i>Clanga pomarina</i>	<i>Colinus virginianus</i>	<i>Contopus fumigatus</i>	<i>Corydon sumatranus</i>

<i>Corydospiza alaudina</i>	<i>Crax blumenbachii</i>	<i>Crypturellus variegatus</i>	<i>Cyanolyca viridicyanus</i>
<i>Coryphas piza</i>	<i>Crax daubentoni</i>	<i>Cuculus canorus</i>	<i>Cyanomitra alinae</i>
<i>melanotis</i>	<i>Crax fasciolata</i>	<i>Cuculus clamosus</i>	<i>Cyanomitra</i>
<i>Coryphospingus</i>	<i>Crax rubra</i>	<i>Cuculus gularis</i>	<i>cyanolaema</i>
<i>cucullatus</i>	<i>Creatophora cinerea</i>	<i>Cuculus lepidus</i>	<i>Cyanomitra olivacea</i>
<i>Coryphospingus</i>	<i>Creurgops dentatus</i>	<i>Cuculus micropterus</i>	<i>Cyanomitra verticalis</i>
<i>pileatus</i>	<i>Crex crex</i>	<i>Cuculus poliocephalus</i>	<i>Cyanopica cyanus</i>
<i>Corythaeola cristata</i>	<i>Crex egregia</i>	<i>Cuculus rochii</i>	<i>Cyanoptila cumatilis</i>
<i>Corythaixoides</i>	<i>Crinifer zonurus</i>	<i>Cuculus saturatus</i>	<i>Cyanoptila</i>
<i>concolor</i>	<i>Criniferoides</i>	<i>Cuculus solitarius</i>	<i>cyanomelana</i>
<i>Corythaixoides</i>	<i>leucogaster</i>	<i>Culicicapa ceylonensis</i>	<i>Cyclarhis gujanensis</i>
<i>leopoldi</i>	<i>Criniger calurus</i>	<i>Culicicapa helianthea</i>	<i>Cyclopsitta coxeni</i>
<i>Corythopis delalandi</i>	<i>Criniger chloronotus</i>	<i>Culicivora caudacuta</i>	<i>Cyclopsitta</i>
<i>Corythopis torquatus</i>	<i>Criniger ndussumensis</i>	<i>Curaeus curaeus</i>	<i>diophthalma</i>
<i>Corythornis cristatus</i>	<i>Crithagra albogularis</i>	<i>Cursorius</i>	<i>Cygnus columbianus</i>
<i>Corythornis</i>	<i>Crithagra atrogularis</i>	<i>coromandelicus</i>	<i>Cygnus cygnus</i>
<i>leucogaster</i>	<i>Crithagra buchanani</i>	<i>Cursorius rufus</i>	<i>Cygnus melancoryphus</i>
<i>Corythornis</i>	<i>Crithagra burtoni</i>	<i>Cursorius temminckii</i>	<i>Cygnus olor</i>
<i>madagascariensis</i>	<i>Crithagra capistrata</i>	<i>Cutia nipalensis</i>	<i>Cymbilaimus lineatus</i>
<i>Corythornis vintsioides</i>	<i>Crithagra citrinelloides</i>	<i>Cyanecula svecica</i>	<i>Cymbirhynchus</i>
<i>Coscoroba coscoroba</i>	<i>Crithagra citrinipectus</i>	<i>Cyanerpes caeruleus</i>	<i>macrohynchos</i>
<i>Cossypha</i>	<i>Crithagra donaldsoni</i>	<i>Cyanerpes cyaneus</i>	<i>Cynanthus latirostris</i>
<i>cyanocampter</i>	<i>Crithagra dorsostriata</i>	<i>Cyanerpes nitidus</i>	<i>Cyornis banyumas</i>
<i>Cossypha dichroa</i>	<i>Crithagra flaviventris</i>	<i>Cyanicterus</i>	<i>Cyornis caerulatus</i>
<i>Cossypha heuglini</i>	<i>Crithagra frontalis</i>	<i>cyanicterus</i>	<i>Cyornis concretus</i>
<i>Cossypha natalensis</i>	<i>Crithagra gularis</i>	<i>Cyanistes cyanus</i>	<i>Cyornis glaucicomans</i>
<i>Cossypha niveicapilla</i>	<i>Crithagra hyposticta</i>	<i>Cyanocitta cristata</i>	<i>Cyornis hainanus</i>
<i>Cossypha semirufa</i>	<i>Crithagra leucoptera</i>	<i>Cyanocitta stelleri</i>	<i>Cyornis herioti</i>
<i>Cotinga cayana</i>	<i>Crithagra mennelli</i>	<i>Cyanocompsa parellina</i>	<i>Cyornis lemprieri</i>
<i>Cotinga cotinga</i>	<i>Crithagra mozambica</i>	<i>Cyanocorax affinis</i>	<i>Cyornis magnirostris</i>
<i>Cotinga maculata</i>	<i>Crithagra reichardi</i>	<i>Cyanocorax cayanus</i>	<i>Cyornis nicobaricus</i>
<i>Cotinga maynana</i>	<i>Crithagra reichenowi</i>	<i>Cyanocorax chrysops</i>	<i>Cyornis olivaceus</i>
<i>Coturnicops exquisitus</i>	<i>Crithagra scotops</i>	<i>Cyanocorax coeruleus</i>	<i>Cyornis pallidipes</i>
<i>Coturnicops notatus</i>	<i>Crithagra striatipectus</i>	<i>Cyanocorax cristatellus</i>	<i>Cyornis rubeculoides</i>
<i>Coturnicops</i>	<i>Crithagra striolata</i>	<i>Cyanocorax</i>	<i>Cyornis rufigastra</i>
<i>noveboracensis</i>	<i>Crithagra sulphurata</i>	<i>cyanomelas</i>	<i>Cyornis sumatrensis</i>
<i>Coturnix</i>	<i>Crithagra totta</i>	<i>Cyanocorax</i>	<i>Cyornis superbus</i>
<i>coromandelica</i>	<i>Crotophaga ani</i>	<i>cyanopogon</i>	<i>Cyornis tickelliae</i>
<i>Coturnix coturnix</i>	<i>Crotophaga major</i>	<i>Cyanocorax heilprini</i>	<i>Cyornis turcosus</i>
<i>Coturnix delegorguei</i>	<i>Crotophaga sulcirostris</i>	<i>Cyanocorax morio</i>	<i>Cyornis umbratilis</i>
<i>Coturnix japonica</i>	<i>Crypsirina temia</i>	<i>Cyanocorax violaceus</i>	<i>Cyornis unicolor</i>
<i>Coturnix pectoralis</i>	<i>Cryptospiza</i>	<i>Cyanocorax yncas</i>	<i>Cyphorhinus arada</i>
<i>Coua coquereli</i>	<i>reichenovii</i>	<i>Cyanoderma bicolor</i>	<i>Cyphos macrodactylus</i>
<i>Coua cursor</i>	<i>Cryptospiza salvadorii</i>	<i>Cyanoderma</i>	<i>Cypseloides fumigatus</i>
<i>Coua gigas</i>	<i>Crypturellus</i>	<i>chrysaenum</i>	<i>Cypseloides niger</i>
<i>Coua olivaceiceps</i>	<i>atrocapillus</i>	<i>Cyanoderma</i>	<i>Cypseloides senex</i>
<i>Coua pyropyga</i>	<i>Crypturellus bartletti</i>	<i>erythropterum</i>	<i>Cypsiurus balasiensis</i>
<i>Coua verreauxi</i>	<i>Crypturellus cinereus</i>	<i>Cyanoderma ruficeps</i>	<i>Cypsiurus parvus</i>
<i>Cracticus argenteus</i>	<i>Crypturellus</i>	<i>Cyanoderma rufifrons</i>	<i>Cypsnagra</i>
<i>Cracticus mentalis</i>	<i>cinnamomeus</i>	<i>Cyanograucalus</i>	<i>hirundinacea</i>
<i>Cracticus nigrogularis</i>	<i>Crypturellus duidae</i>	<i>azureus</i>	<i>Cyrtonyx montezumae</i>
<i>Cranioleuca albiceps</i>	<i>Crypturellus</i>	<i>madaganius</i>	<i>Dacelo leachii</i>
<i>Cranioleuca curtata</i>	<i>erythropus</i>	<i>madagascarinus</i>	<i>Dacelo novaeguineae</i>
<i>Cranioleuca demissa</i>	<i>Crypturellus</i>	<i>Cyanoliseus patagonus</i>	<i>Dacnis albiventris</i>
<i>Cranioleuca obsoleta</i>	<i>noctivagus</i>	<i>Cyanoloxia brissonii</i>	<i>Dacnis cayana</i>
<i>Cranioleuca pallida</i>	<i>Crypturellus obsoletus</i>	<i>Cyanoloxia cyanoides</i>	<i>Dacnis flaviventer</i>
<i>Cranioleuca pyrrhophia</i>	<i>Crypturellus</i>	<i>Cyanoloxia</i>	<i>Dacnis lineata</i>
<i>Cranioleuca subcristata</i>	<i>parvirostris</i>	<i>glaucocaeulea</i>	<i>Dactylortyx thoracicus</i>
<i>Crax alector</i>	<i>Crypturellus undulatus</i>	<i>Cyanoloxia rothschildii</i>	

Daphoenositta	Dendropicos elliotii	Diglossa albilatera	Dryoscopus pringlii
chrysoptera	Dendropicos	Diglossa caerulescens	Dryoscopus sabini
Daption capense	fuscescens	Diglossa carbonaria	Dryoscopus
Daptrius ater	Dendropicos	Diglossa cyanea	senegalensis
Dasylophus	gabonensis	Diglossa duidae	Dryotriorchis
superciliosus	Dendropicos goertae	Diglossa glauca	spectabilis
Dasyornis brachypterus	Dendropicos	Diglossa humeralis	Dubusia
Dasyornis broadbenti	griseocephalus	Diglossa mystacalis	castaneoventris
Deonychura	Dendropicos namaquus	Diglossa sittoides	Dubusia taeniata
longicauda	Dendropicos obsoletus	Dinemellia dinemelli	Ducula aenea
Deonychura pallida	Dendropicos	Dinopium benghalense	Ducula badia
Deleornis axillaris	poecilolaemus	Dinopium everetti	Ducula bicolor
Deleornis fraseri	Dendropicos	Dinopium javanense	Ducula carola
Delichon dasypus	spodocephalus	Dinopium psarodes	Ducula cuprea
Delichon lagopodium	Dendropicos	Dinopium rafflesii	Ducula poliocephala
Delichon urbicum	xantholophus	Diomedea antipodensis	Ducula spilorrhoa
Dendragapus	Dendroplex picus	Diomedea dabbenena	Dumetella carolinensis
fuliginosus	Dendrortyx barbatus	Diomedea epomophora	Dumetia hyperythra
Dendragapus obscurus	Deroptyus accipitrinus	Diomedea exulans	Dyaphorophya
Dendrexetastes	Dessonornis caffer	Diomedea sanfordi	ansorgei
rufigula	Dessonornis	Diopsittaca cumanensis	Dyaphorophya
Dendrocincla	mbuluensis	Discosura langsdorffi	castanea
fuliginosa	Dicaeum agile	Discosura letitiae	Dyaphorophya
Dendrocincla	Dicaeum anthonyi	Discosura longicaudus	chalybea
homochroa	Dicaeum australe	Diuca diuca	Dyaphorophya
Dendrocincla merula	Dicaeum bicolor	Dives dives	jamesoni
Dendrocincla turdina	Dicaeum chrysorrheum	Dolichonyx oryzivorus	Dyaphorophya tonsa
Dendrocitta bayleii	Dicaeum concolor	Donacobius atricapilla	Dysithamnus mentalis
Dendrocitta	Dicaeum cruentatum	Donacospiza albifrons	Dysithamnus plumbeus
cinerascens	Dicaeum	Doryfera johannae	Dysithamnus
Dendrocitta formosae	erythrorhynchos	Doryfera ludovicae	stictothorax
Dendrocitta	Dicaeum everetti	Drepanorhynchus	Dysithamnus
leucogastra	Dicaeum	reichenowi	xanthopterus
Dendrocitta occipitalis	hirundinaceum	Dromaius	Eclectus roratus
Dendrocitta vagabunda	Dicaeum hypoleucum	novaehollandiae	Ectopistes migratorius
Dendrocolaptes certhia	Dicaeum ignipectus	Dromas ardeola	Edolisoma
Dendrocolaptes	Dicaeum luzoniense	Dromococcyx	coerulescens
hoffmannsi	Dicaeum	pavoninus	Edolisoma tenuirostre
Dendrocolaptes	melanozanthum	Dromococcyx	Egretta ardesiaca
picumnus	Dicaeum minullum	phasianellus	Egretta caerulea
Dendrocolaptes	Dicaeum monticolum	Drymochila incana	Egretta eulophotes
platyrostris	Dicaeum pygmaeum	Drymodes	Egretta garzetta
Dendrocolaptes	Dicaeum trigonostigma	brunneopygia	Egretta gularis
punctipectus	Dichrozona cincta	Drymodes superciliaris	Egretta
Dendrocopos analis	Dicrurus adsimilis	Drymophila devillei	novaehollandiae
Dendrocopos atratus	Dicrurus aeneus	Drymophila ferruginea	Egretta picata
Dendrocopos leucotos	Dicrurus andamanensis	Drymophila malura	Egretta rufescens
Dendrocopos macei	Dicrurus annectens	Drymophila rubricollis	Egretta sacra
Dendrocopos major	Dicrurus atripennis	Dryobates minor	Egretta thula
Dendrocycyna arcuata	Dicrurus balicassius	Dryobates nuttallii	Egretta tricolor
Dendrocycyna	Dicrurus bracteatus	Dryobates pubescens	Egretta vinaceigula
autumnalis	Dicrurus caerulescens	Dryobates scalaris	Elaenia albiceps
Dendrocycyna bicolor	Dicrurus forficatus	Dryocopus hodgei	Elaenia chiriquensis
Dendrocycyna eytoni	Dicrurus hottentottus	Dryocopus javensis	Elaenia cristata
Dendrocycyna guttata	Dicrurus leucophaeus	Dryocopus martius	Elaenia dayi
Dendrocycyna javanica	Dicrurus macrocercus	Dryolimnas cuvieri	Elaenia flavogaster
Dendrocycyna viduata	Dicrurus modestus	Dryoscopus angolensis	Elaenia frantzii
Dendronanthus indicus	Dicrurus paradiseus	Dryoscopus cubla	Elaenia gigas
Dendroperdix sephaena	Dicrurus sumatranus	Dryoscopus gambensis	Elaenia mesoleuca

Elaenia obscura	Embernagra	Eremomela	Eudytes
Elaenia olivina	longicauda	icteropygialis	pachyrhynchus
Elaenia pallatangae	Embernagra platensis	Eremomela scotops	Eudytes robustus
Elaenia parvirostris	Emblema pictum	Eremomela usticollis	Eudypula minor
Elaenia ruficeps	Eminia lepida	Eremophila alpestris	Eugenes fulgens
Elaenia sordida	Empidonax affinis	Eremopterix australis	Eugralla paradoxa
Elaenia spectabilis	Empidonax albigularis	Eremopterix griseus	Eulabeornis
Elaenia strepera	Empidonax alorum	Eremopterix hova	castaneiventris
Elanoides forficatus	Empidonax difficilis	Eremopterix	Eumyias albicaudatus
Elanus axillaris	Empidonax flaviventris	leucopareia	Eumyias panayensis
Elanus caeruleus	Empidonax fulvifrons	Eremopterix leucotis	Eumyias ruficrissa
Elanus leucurus	Empidonax hammondii	Eremopterix signatus	Eumyias thalassinus
Elanus scriptus	Empidonax minimus	Eremopterix verticalis	Euodice cantans
Electron	Empidonax oberholseri	Eriocnemis	Euodice malabarica
platyrhynchum	Empidonax	glauropoides	Eupetes macrocerus
Eleoscytalopus	occidentalis	Erpornis zantholeuca	Eupetomena macroura
indigoticus	Empidonax traillii	Erythrocerus mccallii	Euphagus carolinus
Eleothreptus anomalus	Empidonax virescens	Erythrocybus	Euphagus
Eleothreptus candicans	Empidonax wrightii	hypoleucos	cyanocephalus
Elminia albicauda	Empidonomus varius	Erythrogonys cinctus	Euphonia affinis
Elminia albonotata	Enicognathus	Erythropitta arquata	Euphonia cayennensis
Elminia longicauda	ferrugineus	Erythropitta	Euphonia chalybea
Elminia nigromitrata	Enicognathus	erythrogaster	Euphonia chlorotica
Elseyornis melanops	leptorhynchus	Erythropitta kochi	Euphonia chrysopasta
Emarginata schlegelii	Enicurus leschenaulti	Erythropitta macklotii	Euphonia
Emarginata sinuata	Enicurus ruficapillus	Erythropitta venusta	cyanocephala
Emarginata tractrac	Enicurus schistaceus	Erythrotriorchis	Euphonia
Emberiza aureola	Enicurus velatus	radiatus	elegantissima
Emberiza bruniceps	Ensifera ensifera	Erythrura hyperythra	Euphonia finschi
Emberiza buchanani	Entomodestes leucotis	Erythrura prasina	Euphonia hirundinacea
Emberiza cabanisi	Entomyzon albipennis	Erythrura trichroa	Euphonia lanirostris
Emberiza capensis	Entomyzon cyanotis	Erythrura viridifacies	Euphonia mesochrysa
Emberiza cioides	Eolophus roseicapilla	Esacus magnirostris	Euphonia minuta
Emberiza citrinella	Eophona migratoria	Esacus recurvirostris	Euphonia pectoralis
Emberiza elegans	Eophona personata	Estrilda astrild	Euphonia plumbea
Emberiza flaviventris	Eopsaltria australis	Estrilda atricapilla	Euphonia rufiventris
Emberiza fucata	Eopsaltria griseogularis	Estrilda charmosyna	Euphonia trinitatis
Emberiza godlewskii	Ephippiorhynchus	Estrilda erythronotos	Euphonia violacea
Emberiza impetuanii	asiaticus	Estrilda kandti	Euphonia xanthogaster
Emberiza lathamii	Ephippiorhynchus	Estrilda melpoda	Euplectes afer
Emberiza	senegalensis	Estrilda nonnula	Euplectes albonotatus
leucocephala	Epinecrophylla	Estrilda paludicola	Euplectes ardens
Emberiza pallasii	erythrura	Estrilda rhodopyga	Euplectes axillaris
Emberiza personata	Epinecrophylla	Estrilda troglodytes	Euplectes capensis
Emberiza poliopleura	gutturalis	Eubucco richardsoni	Euplectes diadematus
Emberiza pusilla	Epinecrophylla	Eubucco versicolor	Euplectes franciscanus
Emberiza rustica	haematonota	Euchrepomis sharpei	Euplectes gierowii
Emberiza rutila	Epinecrophylla	Euchrepomis	Euplectes hartlaubi
Emberiza schoenicius	hoffmannsi	spodioptila	Euplectes hordeaceus
Emberiza	Epinecrophylla	Eucometis penicillata	Euplectes jacksoni
spodocephala	leucophthalma	Eudocimus albus	Euplectes laticauda
Emberiza sulphurata	Epinecrophylla ornata	Eudocimus ruber	Euplectes macroura
Emberiza tahapisi	Epthianura albifrons	Eudromia elegans	Euplectes orix
Emberiza tristrami	Epthianura aurifrons	Eudromias morinellus	Euplectes progne
Emberiza variabilis	Epthianura crocea	Eudynamys orientalis	Eupodotis caerulescens
Emberizoides duidae	Epthianura tricolor	Eudynamys	Eupodotis senegalensis
Emberizoides herbicola	Eremomela badiceps	scolopaceus	Eupsittula astec
Emberizoides	Eremomela canescens	Eudytes chrysocome	Eupsittula aurea
ypiranganus	Eremomela gregalis	Eudytes chrysolophus	Eupsittula canicularis

Eupsittula pertinax	Falco rusticolus	Francoelinus	Gallinago stenura
Euptilotis neoxenus	Falco severus	pondicerianus	Gallinago stricklandii
Euptilotus eutilotus	Falco sparverius	Fraseria caerulescens	Gallinago undulata
Eurillas ansorgei	Falco subbuteo	Fraseria cinerascens	Gallinula angulata
Eurillas curvirostris	Falco subniger	Fraseria griseigularis	Gallinula chloropus
Eurillas gracilis	Falco tinnunculus	Fraseria ocreata	Gallinula galeata
Eurillas latirostris	Falco vespertinus	Fraseria olivascens	Gallinula melanops
Eurillas virens	Falco zoniventris	Fraseria plumbea	Gallinula tenebrosa
Eurocephalus	Falculea palliata	Fraseria tessmanni	Gallirex
anguitimens	Falcunculus frontatus	Fratercula arctica	porphyreolophus
Eurocephalus ruppelli	Falcunculus	Fratercula cirrhata	Galloperdix bicalcarata
Eurochelidon sirintarae	leucogaster	Fratercula corniculata	Galloperdix lunulata
Eurostopodus argus	Ficedula albicilla	Frederickena viridis	Galloperdix spadicea
Eurostopodus	Ficedula disposita	Fregata andrewsi	Gallus gallus
mystacalis	Ficedula dumetoria	Fregata ariel	Gallus lafayettei
Eurylaimus harterti	Ficedula elisae	Fregata magnificens	Gallus sonneratii
Eurylaimus	Ficedula erithacus	Fregata minor	Gampsonyx swainsonii
ochromalus	Ficedula hodgsoni	Fregetta grallaria	Gampsorhynchus
Euryptila	Ficedula hyperythra	Fregetta tropica	torquatus
subcinnamomea	Ficedula hypoleuca	Fringilla montifringilla	Garrodia nereis
Eurypyga helias	Ficedula luzoniensis	Fulica americana	Garrulax bicolor
Eurystomus glaucurus	Ficedula mugimaki	Fulica ardesiaca	Garrulax calvus
Eurystomus gularis	Ficedula narcissina	Fulica armillata	Garrulax chinensis
Eurystomus orientalis	Ficedula nigrorufa	Fulica atra	Garrulax davidi
Euscarthmus	Ficedula parva	Fulica cristata	Garrulax delesserti
meloryphus	Ficedula platenae	Fulica leucoptera	Garrulax leucolophus
Euscarthmus	Ficedula ruficauda	Fulica rufifrons	Garrulax lugubris
rufomarginatus	Ficedula sapphira	Fulmarus glacialis	Garrulax mitratus
Euschistospiza	Ficedula semitorquata	Fulmarus glacialoides	Garrulax monileger
dybowskii	Ficedula strophiaata	Furnarius figulus	Garrulax palliatus
Falciipennis canadensis	Ficedula subrubra	Furnarius leucopus	Garrulax pectoralis
Falciipennis falciipennis	Ficedula superciliaris	Furnarius longirostris	Garrulax sannio
Falciipennis franklinii	Ficedula tricolor	Furnarius rufus	Garrulax strepitans
Falco alopex	Ficedula westermanni	Galbula albirostris	Garrulax treacheri
Falco amurensis	Ficedula zanthopygia	Galbula chalconecephala	Garrulus glandarius
Falco ardosiacus	Florisuga fusca	Galbula cyanicollis	Garrulus leucotis
Falco berigora	Florisuga mellivora	Galbula dea	Gavia adamsii
Falco biarmicus	Fluvicola albiventer	Galbula galbula	Gavia arctica
Falco cenchroides	Fluvicola nengeta	Galbula leucogastra	Gavia immer
Falco cherrug	Fluvicola pica	Galbula ruficauda	Gavia pacifica
Falco chicquera	Formicarius analis	Galbula tombacea	Gavia stellata
Falco columbarius	Formicarius colma	Galerida cristata	Gavicalis fasciocularis
Falco concolor	Formicivora grisea	Galerida deva	Gavicalis versicolor
Falco cuvierii	Formicivora intermedia	Galerida magnirostris	Gecinulus viridis
Falco deiroleucus	Formicivora	Galerida malabarica	Gelochelidon
Falco dickinsoni	melanogaster	Galerida modesta	macrotarsa
Falco eleonorae	Formicivora rufa	Gallucolumba luzonica	Gelochelidon nilotica
Falco fasciinucha	Formicivora serrana	Gallirex cinerea	Geococcyx
Falco femoralis	Forpus conspicillatus	Gallinago andina	californianus
Falco hypoleucos	Forpus modestus	Gallinago delicata	Geocolaptes olivaceus
Falco jugger	Forpus passerinus	Gallinago gallinago	Geoffroyus geoffroyi
Falco longipennis	Forpus spengeli	Gallinago hardwickii	Geokichla
Falco mexicanus	Forpus xanthopterygius	Gallinago jamesoni	camaronensis
Falco naumanni	Foudia	Gallinago media	Geokichla cinerea
Falco newtoni	madagascariensis	Gallinago megala	Geokichla citrina
Falco peregrinus	Francoelinus francoelinus	Gallinago nemoricola	Geokichla crossleyi
Falco ruficollis	Francoelinus pictus	Gallinago nigripennis	Geokichla gurneyi
Falco rufigularis	Francoelinus	Gallinago paraguayae	Geokichla interpres
Falco rupicoloides	pintadeanus	Gallinago solitaria	Geokichla oberlaenderi

Geokichla piaggiae	Glaucidium	Granatina	Haemorhous cassinii
Geokichla princei	bolivianum	ianthinogaster	Haemorhous
Geokichla sibirica	Glaucidium	Grantiella picta	mexicanus
Geokichla spiloptera	brasilianum	Griseotyrannus	Haemorhous purpureus
Geokichla wardii	Glaucidium brodiei	aurantioatrocristatus	Hafferia fortis
Geopelia cuneata	Glaucidium	Grus americana	Hafferia immaculata
Geopelia humeralis	californicum	Grus grus	Halcyon albiventris
Geopelia placida	Glaucidium capense	Grus japonensis	Halcyon badia
Geopelia striata	Glaucidium castaneum	Grus monacha	Halcyon chelicuti
Geophaps ferruginea	Glaucidium	Gubernatrix cristata	Halcyon coromanda
Geophaps plumifera	castanotum	Gubernetes yetapa	Halcyon gularis
Geophaps scripta	Glaucidium cuculoides	Guira guira	Halcyon leucocephala
Geophaps smithii	Glaucidium gnoma	Guttera edouardi	Halcyon malimbica
Geositta antarctica	Glaucidium hardyi	Guttera plumifera	Halcyon pileata
Geositta cunicularia	Glaucidium hoskinsii	Guttera pucherani	Halcyon senegalensis
Geositta poeciloptera	Glaucidium jardinii	Guttera verreauxi	Haliaeetus vocifer
Geositta rufipennis	Glaucidium	Gymnobucco	Haliaeetus vociferoides
Geositta tenuirostris	minutissimum	bonapartei	Haliastur indus
Geospizopsis plebejus	Glaucidium nana	Gymnobucco calvus	Haliastur sphenurus
Geospizopsis unicolor	Glaucidium	Gymnobucco	Halobaena caerulea
Geothlypis	passerinum	cinereiceps	Hamirostra
aequinoctialis	Glaucidium perlatum	Gymnobucco peli	melanosternon
Geothlypis beldingi	Glaucidium radiatum	Gymnobucco sladeni	Hapalopsittaca
Geothlypis flavovelata	Glaucidium sanchezi	Gymnocichla nudiceps	melanotis
Geothlypis formosa	Glaucidium sjostedti	Gymnoderus foetidus	Haplospiza unicolor
Geothlypis nelsoni	Glaucidium	Gymnogyps	Harpactes ardens
Geothlypis	tephronotum	californianus	Harpactes diardii
philadelphia	Glaucis dohrnii	Gymnomystax	Harpactes duvaucelii
Geothlypis	Glaucis hirsutus	mexicanus	Harpactes
poliocephala	Gliciphila melanops	Gymnopithys rufigula	erythrocephalus
Geothlypis tolmiei	Glossopsitta concinna	Gymnorhina tibicen	Harpactes fasciatus
Geothlypis trichas	Glossopsitta	Gymnorhinus	Harpactes kasumba
Geotrygon montana	porphyrocephala	cianocephalus	Harpactes oreskios
Geotrygon violacea	Glossopsitta pusilla	Gymnoris pyrgita	Harpactes orrhophaeus
Geranoaetus	Glycichaera fallax	Gymnoris superciliaris	Harpactes whiteheadi
albicaudatus	Glyphorynchus	Gymnoris xanthocollis	Harpagus bidentatus
Geranoaetus	spirurus	Gypaetus barbatus	Harpagus diodon
melanoleucus	Gnorimopsar chopi	Gypohierax angolensis	Harpia harpyja
Geranoaetus	Gorsachius goisagi	Gyps africanus	Hartlaubius auratus
polyosoma	Gorsachius	Gyps bengalensis	Hedydipna collaris
Geranospiza	melanolophus	Gyps coprotheres	Heleia squamifrons
caerulescens	Gracula indica	Gyps fulvus	Heliactin bilophus
Geronticus calvus	Gracula ptilogenys	Gyps indicus	Heliangelus clarisse
Gerygone chloronota	Gracula religiosa	Gyps rueppelli	Helicolestes hamatus
Gerygone fusca	Gracupica contra	Gyps tenuirostris	Heliobletus
Gerygone levigaster	Gracupica nigricollis	Habia frenata	contaminatus
Gerygone magnirostris	Grafisia torquata	Habia fuscicauda	Heliodoxa aurescens
Gerygone mouki	Grallaria albigula	Habia rubica	Heliodoxa leadbeateri
Gerygone olivacea	Grallaria erythrotis	Haematoderus militaris	Heliodoxa schreibersii
Gerygone palpebrosa	Grallaria excelsa	Haematopus ater	Heliodoxa
Gerygone sulphurea	Grallaria guatemalensis	Haematopus	xanthogonys
Gerygone tenebrosa	Grallaria ruficapilla	fuliginosus	Heliomaster furcifer
Glareola cinerea	Grallaria saltuensis	Haematopus	Heliomaster
Glareola lactea	Grallaria squamigera	leucopodus	longirostris
Glareola maldivarum	Grallaria varia	Haematopus	Heliomaster
Glareola nordmanni	Grallaricula flavirostris	longirostris	squamosus
Glareola nuchalis	Grallina cyanoleuca	Haematopus ostralegus	Heliopais personatus
Glareola ocularis	Granatellus pelzelni	Haematortyx	Heliornis fulica
Glareola pratincola	Granatina granatina	sanguiniceps	Heliorthyx auritus

Helmitheros vermivorum	Herpsilochmus sticturus	Hydrobates monorhis Hydrobates tethys	Hypnelus ruficollis Hypocnemis cantator
Hemicircus canente	Hesperiphona abeillei	Hydrochous gigas	Hypocnemis flavescens
Hemicircus sordidus	Hesperiphona vespertina	Hydrocoloeus minutus	Hypocnemis hypoxantha
Hemimacronyx chloris	Heterocercus flavivertex	Hydrophasianus chirurgus	Hypocnemis ochrogyna
Hemiprocne comata	Heterocercus linteatus	Hydroprogne caspia	Hypocnemis subflava
Hemiprocne coronata	Heteromirafr ruddi	Hydropsalis cayennensis	Hypocnemoides maculicauda
Hemiprocne	Heteromunia pectoralis	Hydropsalis climacocerca	Hypocnemoides melanopogon
longipennis	Heteromyias cinereifrons	Hydropsalis maculicaudus	Hypoedaleus guttatus
Hemitesia pallidipes	Heterophasia melanoleuca	Hydropsalis torquata	Hypotaenidia philippensis
Hemithraupis flavicollis	Heterophasia picaoides	Hydromis baudii	Hypotaenidia torquata
Hemithraupis guira	Heteroscenes pallidus	Hydromis caeruleus	Hypothymis azurea
Hemithraupis ruficapilla	Heterotetrax rueppelii	Hydromis cyaneus	Hypothymis coelestis
Hemitriccus diops	Heterotetrax vigorsii	Hydromis irena	Hypothymis helena
Hemitriccus flammulatus	Hieraaetus ayresii	Hydromis oatesi	Hypsipetes amaurotis
Hemitriccus granadensis	Himantomis haematopus	Hydromis phayrei	Hypsipetes ganeesa
Hemitriccus griseipectus	Hippolais icterina	Hydromis schneideri	Hypsipetes leucocephalus
Hemitriccus josephinae	Hippolais languida	Hydromis schwaneri	Hypsipetes madagascariensis
Hemitriccus	Hippolais olivetorum	Hylatomus galeatus	Hypsipetes philippinus
margaritaceiventris	Hirundapus caudacutus	Hylatomus lineatus	Ibycter americanus
Hemitriccus minimus	Hirundapus celebensis	Hylatomus pileatus	Icteria virens
Hemitriccus minor	Hirundapus cochinchinensis	Hylexetastes perrotii	Icterus bullockii
Hemitriccus nidipendulus	Hirundapus giganteus	Hylia prasina	Icterus cayanensis
Hemitriccus obsoletus	Hirundinea bellicosa	Hyliota australis	Icterus chrysocephalus
Hemitriccus orbitatus	Hirundinea ferruginea	Hyliota flavigaster	Icterus croconotus
Hemitriccus rufigularis	Hirundo aethiopica	Hyliota violacea	Icterus cucullatus
Hemitriccus spodiops	Hirundo albigularis	Hylocharis chrysur	Icterus galbula
Hemitriccus striaticollis	Hirundo angolensis	Hylocharis cyanus	Icterus graduacauda
Hemitriccus zosterops	Hirundo atrocaerulea	Hylocichla mustelina	Icterus gularis
Hemixos cinereus	Hirundo dimidiata	Hylopezus berlepschi	Icterus icterus
Hemixos connectens	Hirundo javanica	Hylopezus macularius	Icterus jamacaii
Hemixos flavala	Hirundo neoxena	Hylopezus nattereri	Icterus mesomelas
Henicorhina	Hirundo nigrita	Hylophilus	Icterus nigrogularis
leucophrys	Hirundo nigrita	Hylophilus	Icterus parisorum
Henicorhina leucosticta	Hirundo rustica	Hylophilus flavipes	Icterus pyrrhopterus
Herpetotheres	Hirundo smithii	Hylophilus griseiventris	Icterus spurius
cachinnans	Histrionicus histrionicus	Hylophilus pectoralis	Icterus wagleri
Herpsilochmus atricapillus	Histurgops ruficauda	Hylophilus poicilotis	Icthyophaga humilis
Herpsilochmus dorsimaculatus	Hoploxypterus cayanus	Hylophilus	Ictinia mississippiensis
Herpsilochmus longirostris	Horizocerus cassini	semicinereus	Ictinia plumbea
Herpsilochmus roraimae	Horizocerus granti	Hylophilus thoracicus	Iduna caligata
Herpsilochmus rufimarginatus	Horizocerus hartlaubi	Hylophylax naevius	Iduna natalensis
Herpsilochmus scapularis	Horornis canturians	Hylophylax punctulatus	Iduna pallida
Herpsilochmus stictocephalus	Horornis diphone	Hylopsar purpureiceps	Iduna rama
	Horornis flavolivaceus	Hymenops perspicillatus	Iduna similis
	Hydrobates furcatus	Hypargos margaritatus	Ilicura militaris
	Hydrobates homochroa	Hypargos	Illadopsis albipectus
	Hydrobates leucorhous	niveoguttatus	Illadopsis cleaveri
	Hydrobates macroductylus	Hypergerus atriceps	Illadopsis fulvescens
	Hydrobates melania	Hypnelus bicinctus	Illadopsis pyrrhoptera
	Hydrobates microsoma		Illadopsis rufipennis

Indicator archipelagicus	Knipolegus hudsoni	Laniarius ferrugineus	Larvivora akahige
Indicator exilis	Knipolegus lophotes	Laniarius funebris	Larvivora brunnea
Indicator indicator	Knipolegus nigerrimus	Laniarius	Larvivora cyane
Indicator maculatus	Knipolegus orenocensis	leucorhynchus	Larvivora sibilans
Indicator meliphilus	Knipolegus poecilocercus	Laniarius luehderi	Laterallus albigularis
Indicator minor	Knipolegus poecilurus	Laniisoma elegans	Laterallus exilis
Indicator variegatus	Knipolegus striaticeps	Lanio fulvus	Laterallus jamaicensis
Inezia caudata	Lacedo melanops	Lanio versicolor	Laterallus leucopyrrhus
Inezia inornata	Lacedo pulchella	Laniocera hypopyrra	Laterallus melanophaius
Inezia subflava	Lafresnaya lafresnayi	Lanioturdus torquatus	Laterallus xenopterus
Inezia tenuirostris	Lagonosticta nigricollis	Lanius borealis	Lathamus discolor
Iodopleura fusca	Lagonosticta nitidula	Lanius bucephalus	Lathrotriccus eulerei
Iodopleura isabellae	Lagonosticta rara	Lanius cabanisi	Legatus leucophaeus
Iodopleura pipra	Lagonosticta rhodopareia	Lanius collaris	Leopicus mahrattensis
Iole charlottae	Lagonosticta rubricata	Lanius collurio	Leioptila annectens
Iole palawanensis	Lagonosticta rufopicta	Lanius collurioides	Leiothlypis celata
Iole propinqua	Lagonosticta senegala	Lanius cristatus	Leiothlypis crissalis
Irania gutturalis	Lagopus lagopus	Lanius excubitor	Leiothlypis luciae
Irena cyanogastra	Lalage fimbriata	Lanius excubitoroides	Leiothlypis peregrina
Irena puella	Lalage leucomela	Lanius isabellinus	Leiothlypis ruficapilla
Irena tweeddalii	Lalage melanoleuca	Lanius ludovicianus	Leiothlypis virginiae
Iridosornis jelskii	Lalage melanopectera	Lanius mackinnoni	Leiothrix argentauris
Isleria guttata	Lalage melaschistos	Lanius minor	Leiothrix laurinae
Isleria hauxwelli	Lalage nigra	Lanius phoenicuroides	Leipoa ocellata
Isleriothraupis cristata	Lalage polioptera	Lanius schach	Leistes loyca
Isleriothraupis luctuosa	Lalage tricolor	Lanius senator	Leistes militaris
Ixobrychus cinnamomeus	Lampornis amethystinus	Lanius souzai	Leistes superciliiaris
Ixobrychus dubius	Lampornis clemenciae	Lanius sphenocercus	Lepidocolaptes affinis
Ixobrychus eurhythmus	Lamprospiza melanoleuca	Lanius tephronotus	Lepidocolaptes albolineatus
Ixobrychus exilis	Lamprotornis acuticaudus	Lanius tigrinus	Lepidocolaptes angustirostris
Ixobrychus flavicollis	Lamprotornis australis	Lanius validirostris	Lepidocolaptes duidae
Ixobrychus involucris	Lamprotornis bicolor	Lanius vittatus	Lepidocolaptes falcinellus
Ixobrychus minutus	Lamprotornis chalybaeus	Larus atlanticus	Lepidocolaptes fatimalimae
Ixonotus guttatus	Lamprotornis chloropterus	Larus atricilla	Lepidocolaptes fuscicapillus
Ixos malaccensis	Lamprotornis fischeri	Larus brunnicephalus	Lepidocolaptes lacrymiger
Ixos mcclllandii	Lamprotornis hildebrandti	Larus californicus	Lepidocolaptes souleyetii
Ixos sumatranus	Lamprotornis mevesii	Larus canus	Lepidocolaptes squamatus
Jacamaralcyon tridactyla	Lamprotornis nitens	Larus cirrocephalus	Lepidogrammus cumingi
Jacamerops aureus	Lamprotornis purpuroptera	Larus crassirostris	Lepidopygia nana
Jacana jacana	Lamprotornis splendidus	Larus delawarensis	Lepidothrix coronata
Jacana spinosa	Lamprotornis superbus	Larus dominicanus	Lepidothrix nattereri
Jubula lettii	Lamprotornis unicolor	Larus fuscus	Lepidothrix serena
Junco hyemalis	Laniarius aethiopicus	Larus glaucescens	Lepidothrix suavissima
Junco phaeonotus	Laniarius atrococcineus	Larus glaucoides	Leptasthenura fuliginiceps
Kakamega poliothorax	Laniarius bicolor	Larus heermanni	Leptasthenura pallida
Kempiella griseiceps	Laniarius erythrogaster	Larus livens	Leptasthenura setaria
Kenopia striata		Larus maculipennis	Leptasthenura striolata
Kittacincla albiventris		Larus marinus	Leptocoma brasiliana
Kittacincla luzoniensis		Larus modestus	
Kittacincla malabarica		Larus novaehollandiae	
Kittacincla nigra		Larus occidentalis	
Klais guimeti		Larus philadelphia	
Knipolegus aterrimus		Larus pipixcan	
Knipolegus cabanisi		Larus ridibundus	
Knipolegus		Larus schistisagus	
cyanirostris		Larus scoresbii	
		Larus smithsonianus	
		Larus thayeri	

Leptocoma calcostetha	Limosa haemastica	Lophornis stictolophus	Macronectes halli
Leptocoma minima	Limosa lapponica	Lophornis verreauxii	Macronus ptilosus
Leptocoma sperata	Limosa limosa	Lophospingus	Macronyx ameliae
Leptocoma zeylonica	Linurgus olivaceus	griseocristatus	Macronyx aurantiigula
Leptodon cayanensis	Liocichla ripponi	Lophostrix cristata	Macronyx capensis
Leptopogon	Lipaugus lanioides	Lophotibis cristata	Macronyx croceus
albidiventer	Lipaugus uropygialis	Lophotis gindiana	Macronyx fuelleborni
Leptopogon	Lipaugus vociferans	Lophotis ruficrista	Macronyx sharpei
amaurocephalus	Lissotis hartlaubii	Lophotriccus galeatus	Macropsalis forcipata
Leptopogon	Lissotis melanogaster	Lophotriccus pileatus	Macropygia emiliana
superciliaris	Lobotos oriolinus	Lophotriccus vitiosus	Macropygia
Leptopterus chabert	Lochmias nematura	Lophotriorchis kienerii	phasianella
Leptoptilos crumenifer	Locustella amnicola	Lophura bulweri	Macropygia ruficeps
Leptoptilos dubius	Locustella caudata	Lophura diardi	Macropygia rufipennis
Leptoptilos javanicus	Locustella certhiola	Lophura	Macropygia
Leptosomus discolor	Locustella davidi	erythrophthalma	tenuirostris
Leptotila megalura	Locustella fasciolata	Lophura ignita	Macropygia unchall
Leptotila plumbeiceps	Locustella fluviatilis	Lophura inornata	Macrosphenus
Leptotila rufaxilla	Locustella lanceolata	Lophura nycthemera	concolor
Leptotila verreauxi	Locustella mandelli	Lophura pyronota	Macrosphenus
Lessonia rufa	Locustella naevia	Lophura rufa	flavicans
Leucippus fallax	Locustella ochotensis	Loriculus galgulus	Malacocincla abbotti
Leucochloris albicollis	Locustella seebohmi	Loriculus philippensis	Malacocincla sepiaria
Leucogeranus	Locustella	Loriculus vernalis	Malaconotus blanchoti
leucogeranus	tacsanowskia	Loxia curvirostra	Malaconotus cruentus
Leuconotopicus	Lonchura atricapilla	Loxia leucoptera	Malacopteron affine
albolarvatus	Lonchura	Lurocalis rufiventris	Malacopteron
Leuconotopicus	castaneothorax	Lurocalis	albogulare
arizonae	Lonchura flaviprymna	semitorquatus	Malacopteron
Leuconotopicus	Lonchura fuscans	Luscinia luscinia	cinereum
borealis	Lonchura kelaarti	Luscinia	Malacopteron
Leuconotopicus	Lonchura leucogastra	megarhynchos	magnirostre
fumigatus	Lonchura maja	Lybius guifsobalito	Malacopteron magnum
Leuconotopicus	Lonchura malacca	Lybius leucocephalus	Malacopteron
villosus	Lonchura punctulata	Lybius torquatus	palawanense
Leucopternis kuhli	Lonchura striata	Lymnocyptes	Malacopectila fusca
Leucopternis melanops	Lophaetus occipitalis	minimus	Malacopectila mystacalis
Leucosarcia	Lophoceros	Lyncornis macrotis	Malacopectila striata
melanoleuca	alboterminatus	Lyncornis temminckii	Malacorhynchus
Leucosticte arctoa	Lophoceros bradfieldi	Lyrurus tetrix	membranaceus
Leucosticte atrata	Lophoceros camurus	Machaerirhynchus	Malcorus pectoralis
Leucosticte australis	Lophoceros fasciatus	flaviventer	Malimbus cassini
Leucosticte tephrocotis	Lophoceros hemprichii	Machaeropterus	Malimbus coronatus
Lewinia mirifica	Lophoceros nasutus	pyrocephalus	Malimbus
Lewinia pectoralis	Lophoceros	Machaeropterus	erythrogaster
Lewinia striata	pallidirostris	striolatus	Malimbus malimbicus
Lichenostomus	Lophodytes cucullatus	Macheiramphus	Malimbus nitens
cratitius	Lophoictinia isura	alcinus	Malimbus rubricollis
Lichenostomus	Lopholaimus	Machetornis rixosa	Malurus amabilis
melanops	antarcticus	Machlolophus nuchalis	Malurus coronatus
Lichmera indistincta	Lophonetta	Machlolophus	Malurus cyaneus
Limnodromus griseus	specularioides	spilonotus	Malurus elegans
Limnodromus	Lophorina magnifica	Machlolophus	Malurus lamberti
scolopaceus	Lophorina paradisea	xanthogenys	Malurus leucopterus
Limnodromus	Lophornis chalybeus	Mackenziaena leachii	Malurus
semipalmatus	Lophornis delattrei	Mackenziaena severa	melanocephalus
Limnothlypis	Lophornis magnificus	Macroagelaius	Malurus pulcherrimus
swainsonii	Lophornis ornatus	imthurni	Malurus splendens
Limosa fedoa	Lophornis pavoninus	Macronectes giganteus	Manacus manacus

Mandingoa nitidula	Melaenornis	Melithreptus	Micrastur
Manorina flavigula	semipartitus	albogularis	semitorquatus
Manorina	Melanerpes aurifrons	Melithreptus	Micrathene whitneyi
melanocephala	Melanerpes cactorum	brevirostris	Microbates collaris
Manorina melanophrys	Melanerpes candidus	Melithreptus chloropsis	Microcarbo africanus
Manorina melanotis	Melanerpes carolinus	Melithreptus gularis	Microcarbo
Mareca americana	Melanerpes cruentatus	Melithreptus laetior	melanoleucos
Mareca falcata	Melanerpes	Melithreptus lunatus	Microcarbo niger
Mareca penelope	erythrocephalus	Melithreptus	Microcerculus bambla
Mareca sibilatrix	Melanerpes flavifrons	validirostris	Microcerculus
Mareca strepera	Melanerpes	Melloria quoyi	marginatus
Margaroperdix	formicivorus	Melocichla mentalis	Microcerculus
madagarensis	Melanerpes lewis	Melopsittacus	ustulatus
Margarornis squamiger	Melanerpes	undulatus	Microeca fascians
Maschalethraupis	rubricapillus	Melospiza georgiana	Microeca flavigaster
surinama	Melaniparus afer	Melospiza lincolni	Microeca tormenti
Mecocerculus	Melaniparus albiventris	Melospiza melodia	Microhierax
hellmayri	Melaniparus carpi	Melozone aberti	caerulescens
Mecocerculus	Melaniparus	Melozone crissalis	Microhierax
leucophrys	cinerascens	Melozone fusca	erythrogyrus
Mecocerculus	Melaniparus	Menura alberti	Microhierax
stictopterus	fringillinus	Menura	fringillarius
Megabyas flammulatus	Melaniparus funereus	novaehollandiae	Micronisus gabar
Megaceryle alcyon	Melaniparus	Merganetta armata	Microparra capensis
Megaceryle lugubris	griseiventris	Mergellus albellus	Micropternus
Megaceryle maxima	Melaniparus guineensis	Mergus merganser	brachyurus
Megaceryle torquata	Melaniparus	Mergus octosetaceus	Microptilotis
Megaloprepia	leucomelas	Mergus serrator	albilineatus
magnifica	Melaniparus niger	Mergus squamatus	Microptilotis fordianus
Megalurus palustris	Melaniparus	Merops albicollis	Microptilotis gracilis
Megapodius cumingii	pallidiventris	Merops americanus	Micropygia
Megapodius	Melaniparus rufiventris	Merops apiaster	schomburgkii
nicobariensis	Melaniparus thruppi	Merops breweri	Microrhopias quixensis
Megapodius reinwardt	Melanitta perspicillata	Merops bullockoides	Microspingus cabanisi
Megarynchus pitangua	Melanitta stejnegeri	Merops malimbicus	Microspingus cinereus
Megascops albogularis	Melanochlora sultanea	Merops muelleri	Microspingus
Megascops asio	Melanocorypha	Merops nubicooides	erythroprys
Megascops atricapilla	mongolica	Merops nubicus	Microspingus torquatus
Megascops choliba	Melanodera	Merops oreobates	Microspingus
Megascops guatemalae	melanodera	Merops orientalis	trifasciatus
Megascops ingens	Melanodera	Merops ornatus	Microstilbon
Megascops kennicottii	xanthogramma	Merops persicus	burmeisteri
Megascops marshalli	Melanodryas cucullata	Merops philippinus	Microtarsus
Megascops	Melanodryas vittata	Merops pusillus	melanoleucos
sanctaecatarinae	Melanopareia	Merops superciliosus	Microxenops milleri
Megascops trichopsis	maximiliani	Merops variegatus	Milvago chimachima
Megascops	Melanopareia torquata	Merops viridis	Milvus migrans
vermiculatus	Melanoperdix niger	Merulaxis ater	Mimus dorsalis
Megascops watsonii	Melanospiza bicolor	Mesembrinibis	Mimus gilvus
Megastictus	Melanotis caerulescens	cayennensis	Mimus patagonicus
margaritatus	Meleagris gallopavo	Metallura aeneocauda	Mimus polyglottos
Meiglyptes	Melichneutes robustus	Metallura tyrianthina	Mimus saturninus
grammithorax	Melierax canorus	Metopidius indicus	Mimus triurus
Meiglyptes jugularis	Melierax metabates	Metriopelia	Mionectes galbinus
Meiglyptes tukki	Melierax poliopterus	melanoptera	Mionectes macconnelli
Melaenornis edolioides	Melignomon zenkeri	Micrastur gilvicollis	Mionectes oleagineus
Melaenornis fischeri	Meliphaga lewinii	Micrastur mintoni	Mionectes roraimae
Melaenornis	Meliphaga notata	Micrastur mirandollei	Mionectes rufiventris
pammelaina	Melithreptus affinis	Micrastur ruficollis	Mionectes striaticollis

Mirafr a affinis	Motacilla clara	Myiarchus nuttingi	Myrmoderus ruficauda
Mirafr a africana	Motacilla flava	Myiarchus swainsoni	Myrmoderus
Mirafr a albicauda	Motacilla flaviventris	Myiarchus tuberculifer	squamosus
Mirafr a angolensis	Motacilla grandis	Myiarchus tyrannulus	Myrmophylax
Mirafr a apiata	Motacilla	Myiarchus	atrothorax
Mirafr a assamica	maderaspatensis	venezuelensis	Myrmornis torquata
Mirafr a cheniana	Motacilla	Myiobius barbatus	Myrmothera simplex
Mirafr a erythrocephala	tschutschensis	Myioborus albifacies	Myrmotherula ambigua
Mirafr a erythroptera	Mulleripicus funebris	Myioborus brunniceps	Myrmotherula axillaris
Mirafr a fasciolata	Mulleripicus	Myioborus	Myrmotherula behni
Mirafr a hypermetra	pulverulentus	castaneocapilla	Myrmotherula cherriei
Mirafr a javanica	Muscicapa adusta	Myioborus	Myrmotherula grisea
Mirafr a passerina	Muscicapa cassini	melanocephalus	Myrmotherula ignota
Mirafr a pulpa	Muscicapa dauurica	Myiodynastes	Myrmotherula
Mirafr a	Muscicapa epulata	chrysocephalus	longicauda
rufocinnamomea	Muscicapa ferruginea	Myiodynastes	Myrmotherula luctuosa
Mitrephanes	Muscicapa griseisticta	maculatus	Myrmotherula
phaeocercus	Muscicapa muttui	Myiodynastes	multostriata
Mitu tomentosum	Muscicapa randi	solitarius	Myrmotherula
Mitu tuberosum	Muscicapa sethsmithi	Myiomela diana	schisticolor
Mixornis bornensis	Muscicapa sibirica	Myiomela leucura	Myrmotherula sclateri
Mixornis gularis	Muscicapa striata	Myiopagis caniceps	Myrmotherula
Mniotilta varia	Muscipipra vetula	Myiopagis cinerea	surinamensis
Molothrus aeneus	Muscisaxicola albilora	Myiopagis gaimardii	Myrmotherula unicolor
Molothrus ater	Muscisaxicola	Myiopagis viridicata	Myzomela obscura
Molothrus bonariensis	capistratus	Myiophobus fasciatus	Myzomela
Molothrus oryzivorus	Muscisaxicola cinereus	Myiopsitta luchsii	sanguinolenta
Molothrus rufoaxillaris	Muscisaxicola	Myiopsitta monachus	Nannopsittaca
Momotus coeruliceps	flavinucha	Myiomis albiventris	panychlora
Momotus lessonii	Muscisaxicola	Myiotheretes	Napothera epilepidota
Momotus momota	fluviatilis	fumigatus	Nasica longirostris
Momotus subrufescens	Muscisaxicola griseus	Myiothlypis bivittata	Neafrapus boehmi
Monarcha frater	Muscisaxicola	Myiothlypis	Neafrapus cassini
Monarcha melanopsis	juninensis	cinereicollis	Necrosyrtes monachus
Monasa atra	Muscisaxicola	Myiothlypis coronata	Neochen jubata
Monasa morphoeus	maclovianus	Myiothlypis euophrys	Neochmia evangelinae
Monasa nigrifrons	Muscisaxicola	Myiothlypis flaveola	Neochmia phaeon
Monias benschi	maculirostris	Myiothlypis fulvicauda	Neocrex erythrops
Monticola angolensis	Muscisaxicola	Myiothlypis	Neoctantes niger
Monticola brevipes	occipitalis	leucoblephara	Neomixis pallidior
Monticola	Musophaga rossae	Myiothlypis	Neomorphus geoffroyi
cinclorhyncha	Myadestes occidentalis	leucophrys	Neomorphus rufipennis
Monticola explorator	Myadestes ralioides	Myiothlypis	Neopelma
Monticola gularis	Myadestes townsendi	mesoleucus	chrysocephalum
Monticola imerina	Mycerobas carnipes	Myiothlypis	Neopelma pallescens
Monticola rufiventris	Mycerobas	nigrocristata	Neophedina cincta
Monticola rufocinereus	melanozanthos	Myiothlypis rivularis	Neophema
Monticola rupestris	Mycteria americana	Myiothlypis roraimae	chrysogaster
Monticola saxatilis	Mycteria ibis	Myiothlypis signata	Neophema
Monticola sharpei	Mycteria leucocephala	Myrmeciza longipes	chrysostoma
Monticola solitarius	Myiagra alecto	Myrmecocichla arnotti	Neophema elegans
Morphnus guianensis	Myiagra cyanoleuca	Myrmecocichla	Neophema petrophila
Morus bassanus	Myiagra inquieta	monticola	Neophema pulchella
Morus serrator	Myiagra nana	Myrmelastes caurensis	Neophema splendida
Motacilla aguimp	Myiagra rubecula	Myrmelastes	Neophron percnopterus
Motacilla alba	Myiarchus cephalotes	leucostigma	Neopsephotus bourkii
Motacilla capensis	Myiarchus cinerascens	Myrmoderus	Neosuthora davidiana
Motacilla cinerea	Myiarchus crinitus	ferrugineus	Neotis denhami
Motacilla citreola	Myiarchus ferox	Myrmoderus loricatus	Neotis ludwigii

Nesillas typica	Numida meleagris	Oreothlypis	Pachyptila desolata
Nesocharis ansorgei	Nyctanassa violacea	superciliosa	Pachyptila salvini
Nesoenas picturatus	Nyctibius aethereus	Oriolus brachyrinchus	Pachyptila turtur
Nesoptilotis flavicollis	Nyctibius bracteatus	Oriolus chlorocephalus	Pachyramphus major
Nesoptilotis leucotis	Nyctibius grandis	Oriolus consanguineus	Pachyramphus
Netta erythrophthalma	Nyctibius griseus	Oriolus isabellae	polychopterus
Nettapus auritus	Nyctibius jamaicensis	Oriolus kundoo	Pachyramphus rufus
Nettapus	Nyctibius leucopterus	Oriolus oriolus	Pachyramphus
coromandelianus	Nycticorax caledonicus	Oriolus trailii	surinamus
Nettapus pulchellus	Nycticorax nycticorax	Orochelidon flavipes	Pachyramphus viridis
Niltava oatesi	Nycticyphes	Orochelidon murina	Pachysylvia
Ninox connivens	semicollaris	Ortalis araucuan	aurantiifrons
Ninox japonica	Nyctidromus albicollis	Ortalis canicollis	Pachysylvia
Ninox leucopsis	Nyctiphrynus ocellatus	Ortalis guttata	hypoxantha
Ninox obscura	Nyctipolus nigrescens	Ortalis motmot	Pachysylvia
Ninox philippensis	Nyctiprogne leucopyga	Ortalis ruficauda	muscipapina
Ninox randi	Nyctyornis amictus	Ortalis squamata	Pachysylvia
Ninox rufa	Nyctyornis athertoni	Ortalis vetula	semibrunnea
Ninox scutulata	Nymphicus hollandicus	Orthopsittaca	Pagophila eburnea
Ninox strenua	Nystactes tamatia	manilatus	Paludipasser locustella
Nisaetus alboniger	Nystalus chacuru	Orthotomus	Pandion haliaetus
Nisaetus cirrhatus	Nystalus maculatus	chloronotus	Panyptila cayennensis
Nisaetus nanus	Nystalus striolatus	Ortyxelos meiffrenii	Parabuteo leucorrhous
Nisaetus nipalensis	Oceanites oceanicus	Otis tarda	Parabuteo unicinctus
Nisaetus philippensis	Ochthoeca fumicolor	Otus alius	Pardaliparus amabilis
Nomonyx dominicus	Ochthoeca thoracica	Otus bakkamoena	Pardaliparus elegans
Nonnula rubecula	Ocreatus underwoodii	Otus balli	Pardalotus
Nonnula ruficapilla	Ocyrceros birostris	Otus brookii	quadragintus
Northiella	Ocyrceros gingalensis	Otus fuliginosus	Pardirallus maculatus
haematogaster	Ocyrceros griseus	Otus icterorhynchus	Pardirallus nigricans
Notharchus	Ocyphaps lophotes	Otus lempiji	Pardirallus
hyperrhynchus	Odontophorus	Otus lettia	sanguinolentus
Notharchus	balliviani	Otus longicornis	Paroaria gularis
macrorhynchus	Odontophorus capueira	Otus megalotis	Passer cinnamomeus
Notharchus ordii	Odontophorus	Otus rufescens	Passer domesticus
Notharchus swainsoni	gujanensis	Otus rutilus	Passer montanus
Notharchus tectus	Odontophorus	Otus sagittatus	Passerculus bairdii
Nothocercus	speciosus	Otus scops	Passerculus guttatus
bonapartei	Odontophorus stellatus	Otus semitorques	Passerculus henslowii
Nothocercus	Odontospiza	Otus senegalensis	Passerculus rostratus
nigrocapillus	griseicapilla	Otus spilocephalus	Passerculus
Nothocrax urumutum	Oena capensis	Otus sunia	sandwichensis
Nothoprocta ornata	Oenanthe albifrons	Oxyura australis	Passerella arborea
Nothoprocta pentlandii	Oenanthe oenanthe	Oxyura ferruginea	Passerella iliaca
Nothura boraquira	Oenanthe scotocerca	Oxyura jamaicensis	Passerella
Nothura darwini	Oneillornis salvini	Oxyura maccoa	megarhyncha
Nothura maculosa	Onychognathus morio	Oxyura vittata	Passerella schistacea
Nothura minor	Onychoprion aleuticus	Pachycephala cinerea	Passerella
Notopholia corusca	Onychoprion	Pachycephala	unalaschcensis
Nucifraga	anaethetus	griseiceps	Passerina cyanea
caryocatactes	Onychoprion fuscatus	Pachycephala	Pastor roseus
Numenius americanus	Onychorhynchus	pectoralis	Patagioenas albilinea
Numenius arquata	coronatus	Pachycephala	Patagioenas albipennis
Numenius borealis	Opisthocomus hoazin	rufiventris	Patagioenas araucana
Numenius	Oreolais pulcher	Pachycephala	Patagioenas
madagascariensis	Oreortyx pictus	rufogularis	cayennensis
Numenius minutus	Oreoscoptes montanus	Pachycephala simplex	Patagioenas corensis
Numenius phaeopus	Oreoscopus gutturalis	Pachycoccyx audeberti	Patagioenas fasciata
Numenius tahitiensis		Pachyptila belcheri	Patagioenas flavirostris

Patagioenas maculosa	Petrochelidon ariel	Phaetusa simplex	Phodilus assimilis
Patagioenas picazuro	Petrochelidon fluvicola	Phalacrocorax atriceps	Phoebastria albatrus
Patagioenas plumbea	Petrochelidon nigricans	Phalacrocorax auritus	Phoebastria
Patagioenas speciosa	Petrochelidon preussi	Phalacrocorax	immutabilis
Patagioenas subvinacea	Petrochelidon spilodera	brasilianus	Phoebastria nigripes
Patagona gigas	Petroica boodang	Phalacrocorax	Phoebetria fusca
Pauxi pauxi	Petronia petronia	capillatus	Phoebetria palpebrata
Pauxi unicornis	Petrophassa albipennis	Phalacrocorax carbo	Phoeniconaias minor
Pavo cristatus	Petrophassa rufipennis	Phalacrocorax	Phoenicopterus
Pavo muticus	Pezoporus occidentalis	fuscescens	chilensis
Pedionomus torquatus	Pezoporus wallicus	Phalacrocorax	Phoenicopterus roseus
Pelagodroma marina	Phacellodomus	fuscicollis	Phoeniculus bollei
Pelargopsis capensis	ferrugineigula	Phalacrocorax	Phoeniculus
Pelecanoides magellani	Phacellodomus	gaimardi	damarensis
Pelecanoides urinatrix	inornatus	Phalacrocorax	Phoeniculus purpureus
Pelecanus	Phacellodomus	magellanicus	Phoenicurus bicolor
conspicillatus	rufifrons	Phalacrocorax	Phoenicurus frontalis
Pelecanus	Phaenicophaeus	pelagicus	Phoenicurus
erythrorhynchos	curvirostris	Phalacrocorax	fuliginosus
Pelecanus occidentalis	Phaenicophaeus diardi	penicillatus	Phoenicurus
Pelecanus onocrotalus	Phaenicophaeus	Phalacrocorax	phoenicurus
Pelecanus philippensis	pyrrhocephalus	sulcirostris	Pholia sharpii
Pelecanus rufescens	Phaenicophaeus	Phalacrocorax urile	Phonygammus
Peliperdix albogularis	sumatranus	Phalacrocorax varius	keraudrenii
Peliperdix coqui	Phaenicophaeus tristis	Phalacrocorax varius	Phyllanthus bohndorffi
Peliperdix lathamii	Phaenicophaeus	Phalacrocorax varius	Phyllastrephus
Pellorneum albiventre	viridirostris	Phalaropus fulicarius	albigularis
Pellorneum	Phaeomyias murina	Phalaropus lobatus	Phyllergates cucullatus
nigrocapitatum	Phaethon aethereus	Phalcoboenus	Phyllolais pulchella
Peltohyas australis	Phaethon lepturus	albugularis	Phyllomyias
Penelope argyrotis	Phaethon rubricauda	Phalcoboenus australis	Phyllomyias
Penelope jacquacu	Phaethornis	Phalcoboenus	burmeisteri
Penelope marail	anthophilus	chimango	Phyllomyias griseiceps
Penelope montagnii	Phaethornis	Phaps chalcoptera	Phyllomyias
Penelope obscura	atrimentalis	Phaps elegans	griseocapilla
Penelope ochrogaster	Phaethornis augusti	Phaps histrionica	Phyllomyias zeledoni
Penelope purpurascens	Phaethornis bourcierii	Pharomachrus	Phylloscartes
Penelope superciliaris	Phaethornis eurynome	antisianus	superciliaris
Penelopides manillae	Phaethornis	Pharomachrus auriceps	Phylloscartes virescens
Peneoenanthe	griseogularis	Pharomachrus	Phylloscopus affinis
pulverulenta	Phaethornis guy	pavoninus	Phylloscopus borealis
Percnostola rufifrons	Phaethornis hispidus	Phasianus colchicus	Phylloscopus
Perdicula argoondah	Phaethornis idaliae	Phelpsia inornata	borealoides
Perdicula asiatica	Phaethornis	Pheugopedius coraya	Phylloscopus burkii
Perdicula	longirostris	Pheugopedius	Phylloscopus
erythrorhyncha	Phaethornis	genibarbis	castaniceps
Perdix dauurica	longuemareus	Pheugopedius	Phylloscopus claudiae
Perdix perdix	Phaethornis malaris	maculipectus	Phylloscopus collybita
Pericrocotus	Phaethornis nattereri	Pheugopedius	Phylloscopus
cinnamomeus	Phaethornis pretrei	mystacalis	examinandus
Pericrocotus	Phaethornis ruber	Pheugopedius rutilus	Phylloscopus fuscatus
erythropgyus	Phaethornis rupurumii	Philemon buceroides	Phylloscopus humei
Pericrocotus montanus	Phaethornis squalidus	Philemon citreogularis	Phylloscopus inornatus
Pericrocotus solaris	Phaethornis striigularis	Philentoma pyrhoptera	Phylloscopus intensior
Periparus ater	Phaethornis stuarti	Philentoma velata	Phylloscopus montis
Perisoreus infaustus	Phaethornis	Philohydor lictor	Phylloscopus nitidus
Pernis apivorus	subochraceus	Philydor pyrrhodes	Phylloscopus
Pernis ptilorhynchus	Phaethornis	Phimosus infuscatus	occipitalis
Pernis steerei	superciliosus	Phlegopsis erythroptera	Phylloscopus
		Phleocryptes melanops	omeiensis

Phylloscopus poliogenys	Picus rabieri	Platysmurus aterrimus	Pogonotriccus poecilotis
Phylloscopus proregulus	Picus viridanus	Platysmurus leucopterus	Poicephalus cryptoxanthus
Phylloscopus reguloides	Picus vittatus	Plectrophenax nivalis	Poicephalus gulielmi
Phylloscopus ricketti	Picus xanthopygaeus	Plectropterus gambensis	Poicephalus meyeri
Phylloscopus ruficapilla	Pilherodius pileatus	Plegadis chihi	Poicephalus robustus
Phylloscopus schwarzi	Pinarochroa sordida	Plegadis falcinellus	Poicephalus rueppellii
Phylloscopus sibilatrix	Pinguinus impennis	Plegadis ridgwayi	Poicephalus rufiventris
Phylloscopus soror	Pionites leucogaster	Ploceus hypoxanthus	Polemaetus bellicosus
Phylloscopus sumatrensis	Pionites melanocephalus	Ploceus manyar	Polihierax insignis
Phylloscopus tephrocephalus	Pionites xanthomerius	Ploceus nigerrimus	Polihierax
Phylloscopus tristis	Pionopsitta pileata	Ploceus nigricollis	semitorquatus
Phylloscopus trochiloides	Pionus chalcopterus	Ploceus ocellaris	Poliocephalus poliocephalus
Phylloscopus xanthodryas	Pionus fuscus	Ploceus rubiginosus	Poliolophus urostictus
Piaya cayana	Pionus maximiliani	Ploceus velatus	Polioptila guianensis
Piaya melanogaster	Pionus menstruus	Ploceus xanthopterus	Polioptila plumbea
Pica hudsonia	Pionus senilis	Pluvialis dominica	Polyboroides radiatus
Pica nutalli	Pionus sordidus	Pluvialis fulva	Polyboroides typus
Pica pica	Pionus tumultuosus	Pluvialis squatarola	Polyplectron bicalcaratum
Picoides arcticus	Pipile cujubi	Pluvianellus socialis	Polyplectron chalcureum
Picoides canicapillus	Pipile cumanensis	Pluvianus aegyptius	Polyplectron inopinatum
Picoides kizuki	Pipile grayi	Podargus ocellatus	Polyplectron malacense
Picoides maculatus	Pipile jacutinga	Podargus papuensis	Polyplectron napoleonis
Picoides moluccensis	Pipilo	Podargus strigoides	Polyplectron schleiermacheri
Picoides nanus	erythrophthalmus	Podica senegalensis	Polysticta stelleri
Picoides tridactylus	Pipilo maculatus	Podiceps auritus	Polystictus pectoralis
Piculus aurulentus	Pipraeidea bonariensis	Podiceps cristatus	Polytelis swainsonii
Piculus chrysochloros	Pipreola aureopectus	Podiceps gallardoi	Polytmus guainumbi
Piculus flavigula	Pipreola frontalis	Podiceps grisegena	Polytmus milleri
Piculus leucolaemus	Pipreola riefferii	Podiceps juninensis	Polytmus theresiae
Picumnus	Piprites chloris	Podiceps major	Pomatorhinus phayrei
albosquamatus	Piranga flava	Podiceps nigricollis	Poodytes carteri
Picumnus aurifrons	Piranga hepatica	Podiceps occipitalis	Poodytes gramineus
Picumnus	Piranga ludoviciana	Podilymbus podiceps	Poospizopsis nigrorufa
cinnamomeus	Pithecophaga jefferyi	Poecile atricapillus	Poospizopsis hypocondria
Picumnus cirratus	Pitta brachyura	Poecile carolinensis	Porphyrio alleni
Picumnus exilis	Pitta moluccensis	Poecile cinctus	Porphyrio flavirostris
Picumnus innominatus	Pitta sordida	Poecile gambeli	Porphyrio martinicus
Picumnus lafresnayi	Platalea ajaja	Poecile hudsonicus	Porphyrio porphyrio
Picumnus nebulosus	Platalea alba	Poecile montanus	Porzana albicollis
Picumnus olivaceus	Platalea flavipes	Poecile palustris	Porzana carolina
Picumnus pumilus	Platalea leucorodia	Poecile rufescens	Porzana fluminea
Picumnus rufiventris	Platalea minor	Poecile sclateri	Porzana porzana
Picumnus spilogaster	Platalea regia	Poecilotriccus	Premnornis guttuliger
Picumnus squamulatus	Platycercus adscitus	fumifrons	Primolius auricollis
Picumnus temminckii	Platycercus	Poecilotriccus	Primolius maracana
Picus canus	caledonicus	plumbeiceps	Prinia erythroptera
Picus chlorolophus	Platycercus elegans	Pogoniulus atroflavus	Prinia flaviventris
Picus dedemi	Platycercus eximius	Pogoniulus	Prinia rufifrons
Picus erythropterygius	Platycercus icterotis	subsulphureus	Prinia superciliaris
Picus guerini	Platycercus venustus	Pogonornis bidentatus	
Picus puniceus	Platylophus	Pogonotriccus	
	galericulatus	chapmani	
	Platyrrinchus	Pogonotriccus eximius	
	albogularis	Pogonotriccus	
	Platyrrinchus	ophthalmicus	
	flavigularis	Pogonotriccus orbitalis	
	Platyrrinchus mystaceus		
	Platyrrinchus saturatus		

Prioniturus luconensis	Psilopogon malabaricus	Pterodroma arminjoniana	Puffinus auricularis
Prioniturus montanus	Psilopogon monticola	Pterodroma cahow	Puffinus bailloni
Prioniturus platenae	Psilopogon mystacophanos	Pterodroma cervicalis	Puffinus elegans
Prionops rufiventris	Psilopogon oorti	Pterodroma cookii	Puffinus gavia
Probosciger aterrimus	Psilopogon pyrolophus	Pterodroma deserta	Puffinus huttoni
Procellaria aequinoctialis	Psilopogon rafflesii	Pterodroma externa	Puffinus lherminieri
Procellaria cinerea	Psilopogon rubricapillus	Pterodroma gouldi	Puffinus opisthomelas
Procellaria westlandica	Psilopogon virens	Pterodroma hasitata	Puffinus puffinus
Procnias albus	Psilopogon viridis	Pterodroma hypoleuca	Pulsatrix koenigswaldiana
Procnias averano	Psilopogon zeylanicus	Pterodroma incerta	Pulsatrix perspicillata
Prodotiscus insignis	Psilopsiagon aurifrons	Pterodroma inexpectata	Purnella albifrons
Prodotiscus regulus	Psilopsiagon aymara	Pterodroma lessonii	Purpureicephalus spurius
Prodotiscus zambesiae	Psilorhamphus guttatus	Pterodroma leucoptera	Pycnonotus aurigaster
Progne chalybea	Psiloscoops flammeolus	Pterodroma macroptera	Pycnonotus barbatus
Progne subis	Psittacara	Pterodroma mollis	Pycnonotus bimaculatus
Progne tapera	Psittacara acuticaudatus	Pterodroma neglecta	Pycnonotus pycnonotus
Promerops cafer	Psittacara holochlorus	Pterodroma nigripennis	Pycnonotus blanfordi
Psalidoprocne pristoptera	Psittacara leucophthalmus	Pterodroma solandri	Pycnonotus brunneus
Psarocolius angustifrons	Psittacara mitratus	Pterodroma ultima	Pycnonotus cafer
Psarocolius yuracares	Psittacula alexandri	Pteroglossus aracari	Pycnonotus capensis
Psephotellus chrysopterygius	Psittacula caniceps	Pteroglossus azara	Pycnonotus cinereifrons
Psephotellus dissimilis	Psittacula columboides	Pteroglossus bailloni	Pycnonotus cyaniventris
Psephotellus pulcherrimus	Psittacula cyanocephala	Pteroglossus beauharnaesii	Pycnonotus dispar
Psephotellus varius	Psittacula eupatria	Pteroglossus castanotis	Pycnonotus erythropterus
Psaphotus haematonotus	Psittacula finschii	Pteroglossus inscriptus	Pycnonotus finlaysoni
Pseudastur albicollis	Psittacula krameri	Pteroglossus pluricinctus	Pycnonotus flavescens
Pseudastur polionotus	Psittacula longicauda	Pteroglossus sturmi	Pycnonotus goiavier
Pseudibis papillosa	Psittacula roseata	Pteroglossus torquatus	Pycnonotus gularis
Pseudobulweria rostrata	Psittinus cyanurus	Pteronetta hartlaubii	Pycnonotus leucops
Pseudochelidon eurystomina	Psophia leucoptera	Pteruthius aeralatus	Pycnonotus melanicterus
Pseudocolaptes boissonneaui	Psophia viridis	Ptilinopus alligator	Pycnonotus montis
Pseudonigrita arnaudi	Psophocichla litsitsirupa	Ptilinopus melanospilus	Pycnonotus plumosus
Pseudonigrita cabanisi	Pternistis adspersus	Ptilinopus porphyreus	Pycnonotus squamatus
Pseudopipra pipra	Pternistis afer	Ptilinopus regina	Pycnonotus xantholaemus
Pseudotriccus ruficeps	Pternistis hartlaubi	Ptilinopus superbus	Pycnonotus zeylanicus
Psilopogon asiaticus	Pternistis hildebrandti	Ptiliogonys cinereus	Pygiptila stellaris
Psilopogon chrysopogon	Pternistis icterorhynchus	Ptilopachus nahani	Pygochelidon cyanoleuca
Psilopogon cyanotis	Pternistis jacksoni	Ptilopachus petrosus	Pygochelidon melanoleuca
Psilopogon duvaucelii	Pternistis leucoscepus	Ptilopsis granti	Pygoscelis papua
Psilopogon eximius	Pternistis natalensis	Ptilopsis leucotis	Pyriglena leuconota
Psilopogon faiostrictus	Pternistis rufopictus	Ptilotula flavescens	Pyrilia barrabandi
Psilopogon flavifrons	Pternistis squamatus	Ptilotula fusca	Pyrilia caica
Psilopogon franklinii	Pternistis swainsonii	Ptilotula keartlandi	Pyrilia pyrilia
Psilopogon haemacephalus	Pterocles bicinctus	Ptilotula ornata	Pyrocephalus rubinus
Psilopogon henricii	Pterocles burchelli	Ptilotula penicillata	Pyrrhocorax pyrrhocorax
Psilopogon incognitus	Pterocles decoratus	Ptilotula plumula	Pyrrhocorax pyrrholaemus
Psilopogon lineatus	Pterocles exustus	Ptychoramphus aleuticus	Ptyonoprogne sagittatus
	Pterocles gutturalis	Ptyonoprogne concolor	Pyrrhomyias cinnamomeus
	Pterocles indicus	Ptyonoprogne fuligula	
	Pterocles lichtensteinii	Ptyonoprogne rufigula	
	Pterocles namaqua	Ptyonoprogne rupestris	
	Pterocles personatus	Puffinus assimilis	

Pyrrhura caeruleiceps	Rhinopomastus	Sagittarius serpentarius	Scolopax rusticola
Pyrrhura cruentata	aterrimus	Sakesphorus	Scolopax saturata
Pyrrhura frontalis	Rhinopomastus	canadensis	Scopus umbretta
Pyrrhura leucotis	castaneiceps	Sakesphorus cristatus	Scotopelia bouvieri
Pyrrhura melanura	Rhinopomastus	Sakesphorus pulchellus	Scotopelia peli
Pyrrhura molinae	cyanomelas	Salpornis salvadori	Scytalopus iraiensis
Pyrrhura perlata	Rhinopomastus minor	Salpornis spilonota	Scytalopus pachecoi
Pyrrhura picta	Rhinoptilus	Saltator coerulescens	Scytalopus
Pyrrhura roseifrons	chalcopterus	Saltator grandis	schulenbergi
Pytilia phoenicoptera	Rhinoptilus cinctus	Saltator plumbeus	Scytalopus speluncae
Quoyornis georgianus	Rhinortha chlorophaea	Sarcogyps calvus	Scythrops
Radjah radjah	Rhipidura albicollis	Sarcoramphus papa	novaehollandiae
Rallina canningi	Rhipidura albiscapa	Sarkidiornis melanotos	Selasphorus calliope
Rallina eurizonoides	Rhipidura albogularis	Sarkidiornis sylvicola	Selasphorus
Rallina fasciata	Rhipidura cyaniceps	Saroglossa spilopterus	platycercus
Rallina tricolor	Rhipidura dryas	Sarothrura affinis	Selasphorus rufus
Rallus antarcticus	Rhipidura isura	Sarothrura ayresi	Selasphorus sasin
Rallus caerulescens	Rhipidura javanica	Sarothrura boehmi	Selenidera gouldii
Rallus crepitans	Rhipidura nigritorquis	Sarothrura elegans	Selenidera
Rallus elegans	Rhipidura rufifrons	Sarothrura pulchra	maculirostris
Rallus indicus	Rhizothera longirostris	Sarothrura rufa	Selenidera nattereri
Rallus limicola	Rhodostethia rosea	Sasia abnormis	Selenidera piperivora
Rallus obsoletus	Rhopias gularis	Sasia ochracea	Sephanoides
Rallus tenuirostris	Rhopospina fruticeti	Saxicola ferreus	sephaniodes
Ramphastos ambiguus	Rhynchocyclus	Saxicola rubetra	Sericornis beccarii
Ramphastos ariel	aequinotialis	Sayornis nigricans	Serilophus lunatus
Ramphastos	Rhynchocyclus	Schiffornis major	Serinus flavivertex
citrolaemus	olivaceus	Schiffornis olivacea	Serpophaga
Ramphastos	Rhynchopsitta terrisi	Schiffornis	griseicapilla
culminatus	maculicollis	stenorhyncha	Serpophaga nigricans
Ramphastos cuvieri	Rhynchotus	Schiffornis turdina	Serpophaga subcristata
Ramphastos dicolorus	maculicollis	Schistes geoffroyi	Setopagis heterura
Ramphastos sulfuratus	Rhynchotus rufescens	Schistolais leucopogon	Setopagis parvula
Ramphastos toco	Rhyticeros	Schoenicola platyrus	Setopagis whitelyi
Ramphastos tucanus	subruficollis	Schoeniophylax	Setophaga americana
Ramphastos vitellinus	Rhyticeros undulatus	phryganophilus	Setophaga auduboni
Ramphiculus jambu	Rhytipterna immunda	Schoeniparus	Setophaga caerulescens
Ramphiculus	Rhytipterna simplex	castaneiceps	Setophaga castanea
leclancheri	Ridgwayia pinicola	Schoeniparus	Setophaga cerulea
Ramphiculus marchei	Riparia chinensis	rufogularis	Setophaga citrina
Ramphiculus merrilli	Riparia cowani	Schoutedenapus	Setophaga coronata
Ramphiculus	Riparia diluta	myoptilus	Setophaga dominica
occipitalis	Riparia paludicola	Sciaphylax	Setophaga fusca
Ramphotrigon	Riparia riparia	hemimelaena	Setophaga graciae
megacephalum	Rissa brevirostris	Scleroptila afra	Setophaga kirtlandii
Recurvirostra	Rissa tridactyla	Scleroptila elgonensis	Setophaga magnolia
americana	Robsonius rabori	Scleroptila gutturalis	Setophaga nigrescens
Recurvirostra andina	Robsonius thompsoni	Scleroptila levaillantii	Setophaga occidentalis
Recurvirostra avosetta	Rollandia rolland	Scleroptila shelleyi	Setophaga palmarum
Recurvirostra	Rollulus rouloul	Scleroptila	Setophaga
novaehollandiae	Roraimia adusta	streptophora	pensylvanica
Rhabdotorrhinus	Rostratula australis	Sclerurus albigularis	Setophaga petechia
corrugatus	Rostratula	Sclerurus caudacutus	Setophaga pinus
Rhaphidura	benghalensis	Sclerurus mexicanus	Setophaga pitiayumi
leucopygialis	Rostrhamus sociabilis	Sclerurus rufigularis	Setophaga striata
Rhaphidura sabini	Rufirallus viridis	Sclerurus scansor	Setophaga tigrina
Rhea americana	Rupornis magnirostris	Scolopax	Setophaga townsendi
Rhea pennata	Rynchops albicollis	bukidnonensis	Setophaga virens
Rhinoplax vigil	Rynchops flavirostris	Scolopax minor	Sheppardia polioptera
	Rynchops niger		

Sibirionetta formosa	Spilornis klossi	Sterna aurantia	Sturnia erythropygia
Sicalis olivascens	Spinus barbatus	Sterna dougallii	Sturnia malabarica
Sicalis uropigyalis	Spinus lawrencei	Sterna forsteri	Sturnus vulgaris
Silvicultrix diadema	Spinus magellanicus	Sterna hirundinacea	Sublegatus obscurior
Silvicultrix pulchella	Spinus notatus	Sterna hirundo	Sugomel nigrum
Sipia palliata	Spinus olivaceus	Sterna paradisaea	Suiriri affinis
Sirystes albocinereus	Spinus pinus	Sterna repressa	Suiriri suiriri
Sirystes sibilator	Spinus psaltria	Sterna striata	Sula dactylatra
Sirystes subcanescens	Spinus spinescens	Sterna sumatrana	Sula leucogaster
Sitta arctica	Spinus spinus	Sterna trudeaui	Sula nebouxii
Sitta carolinensis	Spinus tristis	Sterna vittata	Sula sula
Sitta castanea	Spinus xanthogastrus	Sternula albifrons	Surnia ulula
Sitta europaea	Spiza americana	Sternula antillarum	Surniculus dicruroides
Sitta formosa	Spizaetus isidori	Sternula nereis	Surniculus lugubris
Sitta neglecta	Spizaetus	Sternula saundersi	Surniculus velutinus
Sitta pusilla	melanoleucus	Sternula superciliaris	Sylvia abyssinica
Sittasomus	Spizaetus ornatus	Sterrhoptilus	Sylvia atricapilla
griseicapillus	Spizaetus tyrannus	dennistouni	Sylvia crassirostris
Sittasomus griseus	Spizella atrogularis	Sterrhoptilus	Sylvia curruca
Sittiparus semilarvatus	Spizella breweri	nigrocapitatus	Sylvia nigricapillus
Sittiparus varius	Spizella wortheni	Stictonetta naevosa	Sylvia subcoerulea
Siva cyanouoptera	Spizocorys fremantlii	Stigmatura budytoides	Sylvietta brachyura
Smicromis brevirostris	Spizocorys fringillaris	Stigmatura napensis	Sylvietta leucophrys
Smithornis capensis	Spizocorys starki	Stiltia isabella	Sylviorthorhynchus
Smithornis rufolateralis	Spodiopsar cineraceus	Stiphornis	desmuri
Smithornis sharpei	Spodiornis rusticus	erythrothorax	Syma torotoro
Smutsornis africanus	Sporathraupis	Stiphornis	Symposiachrus
Somateria fischeri	cynocephala	pyrrholaemus	trivirgatus
Somateria mollissima	Sporophila angolensis	Stiphornis	Synallaxis albilora
Somateria spectabilis	Sporophila beltoni	xanthogaster	Synallaxis cherriei
Spatula clypeata	Sporophila bouvreuil	Stizorhina fraseri	Synallaxis hypospodia
Spatula cyanoptera	Sporophila crassirostris	Stomiopera flava	Synallaxis macconnelli
Spatula discors	Sporophila	Stomiopera unicolor	Synallaxis scutata
Spatula hottentota	fringilloides	Streptopelia capicola	Syndactyla dimidiata
Spatula platalea	Sporophila funerea	Streptopelia decaocto	Syndactyla roraimae
Spatula querquedula	Sporophila maximiliani	Streptopelia decipiens	Syndactyla striata
Spatula rhynchotis	Sporophila moreletii	Streptopelia dussumieri	Synoicus adansonii
Spatula smithii	Sporophila nigricollis	Streptopelia lugens	Synoicus chinensis
Spatula versicolor	Sporophila palustris	Streptopelia orientalis	Synoicus ypsilophorus
Speculanus specularis	Sporophila pileata	Streptopelia	Synthliboramphus
Speculipastor bicolor	Sporophila plumbea	roseogrisea	craveri
Spermestes bicolor	Sporophila schistacea	Streptopelia	Synthliboramphus
Spermestes cucullata	Stachyris striolata	semitorquata	hypoleucus
Spermestes	Stactolaema anchietae	Streptopelia	Synthliboramphus
fringilloides	Stactolaema leucotis	tranquebarica	scrippsi
Spheniscus	Steatornis caripensis	Streptoprocne phelpsi	Synthliboramphus
magellanicus	Steganopus tricolor	Streptoprocne rutula	wumizusume
Sphenopsis melanotis	Stelgidillas	Streptoprocne zonaris	Sypheotides indicus
Sphyrapicus nuchalis	gracilirostris	Strix hylophila	Syrigma sibilatrix
Sphyrapicus ruber	Stelgidopteryx	Strix leptogrammica	Syrhaptus paradoxus
Sphyrapicus thyroideus	serripennis	Strix nebulosa	Systemellura longirostris
Sphyrapicus varius	Stephanoaetus	Strix occidentalis	Systemellura roraimae
Spilopelia chinensis	coronatus	Strix ocellata	Taccocua leschenaultii
Spilopelia senegalensis	Stephanoxis loddigesii	Strix rufipes	Tachornis furcata
Spilopelia suratensis	Stercorarius	Strix seloputo	Tachornis squamata
Spilornis cheela	longicaudus	Strix uralensis	Tachuris rubrigastra
Spilornis elgini	Stercorarius parasiticus	Strix varia	Tachybaptus
Spilornis holospilus	Stercorarius pomarinus	Strix woodfordii	dominicus
Spilornis kinabaluensis	Sterna acuticauda	Sturnella magna	

Tachybaptus novaehollandiae	Tephrodornis sylvicola	Theristicus caudatus	Touit dilectissimus
Tachybaptus pelzelinii	Tephrodornis virgatus	Theristicus melanopis	Touit huetii
Tachybaptus ruficollis	Terathopius ecaudatus	Thinocorus orbignyianus	Touit purpuratus
Tachycineta meyeri	Terenotriccus erythrurus	Thinocorus rumicivorus	Trachylaemus purpuratus
Tachyeres leucocephalus	Terenura maculata	Thinornis cucullatus	Trachyphonus darnaudii
Tachyeres patachonicus	Terpsiphone affinis	Thlypopsis pyrrhocomma	Trachyphonus emini
Tachyeres pteneres	Terpsiphone batesi	Threnetes leucurus	Trachyphonus erythrocephalus
Tachymarptis aequatorialis	Terpsiphone incei	Threnetes ruckeri	Trachyphonus usambiro
Tachymarptis melba	Terpsiphone paradisi	Threskiornis aethiopicus	Trachyphonus vaillantii
Tadorna cana	Terpsiphone rufiventer	Threskiornis bernieri	Tregellasia leucops
Tadorna ferruginea	Terpsiphone unirufa	Threskiornis melanocephalus	Treron affinis
Tadorna tadornoides	Tetrao urogalloides	Threskiornis moluccus	Treron apicauda
Taeniopygia castanotis	Tetrao urogallus	Threskiornis spinicollis	Treron australis
Taeniotriccus andrei	Tetraogallus himalayensis	Thripophaga fusciceps	Treron axillaris
Tangara argentea	Thalassarche bulleri	Thripophaga gutturata	Treron bicinctus
Tangara atrocoerulea	Thalassarche carteri	Thryophilus rufalbus	Treron calvus
Tangara aurulenta	Thalassarche cauta	Thryothorus ludovicianus	Treron capellei
Tangara cayana	Thalassarche chrysostoma	Tiaris olivaceus	Treron chloropterus
Tangara cyanomelas	Thalassarche eremita	Tigriornis leucolopha	Treron curvirostra
Tangara episcopus	Thalassarche impavida	Tigrisoma fasciatum	Treron delalandii
Tangara flava	Thalassarche melanophris	Tigrisoma lineatum	Treron fulvicollis
Tangara fulvicervix	Thalassarche salvini	Tigrisoma mexicanum	Treron olax
Tangara glaucocolpa	Thalassarche salvini	Tinamotis ingoufi	Treron oxyurus
Tangara mexicana	Thalassarche steadi	Tinamus guttatus	Treron phayrei
Tangara ornata	Thalasseus bengalensis	Tinamus major	Treron phoenicopterus
Tangara palmarum	Thalasseus bergii	Tinamus solitarius	Treron pompadora
Tangara peruviana	Thalasseus bernsteini	Tinamus tao	Treron seimundi
Tangara sayaca	Thalasseus elegans	Tityra braziliensis	Treron sieboldii
Tangara velia	Thalasseus maximus	Tityra cayana	Treron sphenurus
Tangara whitelyi	Thalasseus sandvicensis	Tityra semifasciata	Treron vernans
Tanygnathus lucionensis	Thalassoica antarctica	Tockus damarensis	Tribonyx mortierii
Tanygnathus sumatranus	Thamnistes aequatorialis	Tockus deckeni	Tribonyx ventralis
Tanysiptera sylvia	Thamnophilus aethiops	Tockus erythrorhynchus	Trichastoma cinereiceps
Taoniscus nanus	Thamnophilus atrinucha	Tockus flavirostris	Trichastoma malaccense
Tapera naevia	Thamnophilus insignis	Tockus jacksoni	Trichastoma rostratum
Tarphonemus harterti	Thamnophilus melanonotus	Tockus leucomelas	Trichoglossus chlorolepidotus
Tarsiger cyanurus	Thamnophilus melanothorax	Tockus monteiri	Trichoglossus moluccanus
Tarsiger rufilatus	Thamnophilus nigrocinereus	Todiramphus chloris	Trichoglossus rubritorquis
Tauraco corythaix	Thamnophilus ruficapillus	Todiramphus macleayii	Tricholaema diademata
Tauraco hartlaubi	Thamnophilus sticticeps	Todiramphus pyrrhopygius	Tricholaema frontata
Tauraco leucolophus	Thamnophilus sticturus	Todiramphus sanctus	Tricholaema hirsuta
Tauraco macrohynchus	Thamnophilus subsfasciatus	Tolmomyias assimilis	Tricholaema lacrymosa
Tauraco persa	Theristicus branickii	Tolmomyias flaviventris	Tricholaema leucomelas
Tauraco schalowi	Theristicus caeruleus	Tolmomyias sulphureus	Tricholaema melanocephalum
Tauraco schuettii		Tolmomyias viridiceps	Tricholaema melanocephala
Telacanthura melanopygia		Topaza pella	Tricholaema malachitacea
Telacanthura ussheri		Topaza pyra	Trigonoceps occipitalis
Telophorus viridis		Torgos tracheliotus	Tringa brevipes
Tephrodornis affinis		Touit batavicus	
Tephrodornis pondicerianus			

<i>Tringa erythropus</i>	<i>Turdus hauxwelli</i>	<i>Uropsalis segmentata</i>	<i>Xiphorhynchus</i>
<i>Tringa flavipes</i>	<i>Turdus ignobilis</i>	<i>Urotriorchis macrourus</i>	<i>beauperthuysii</i>
<i>Tringa glareola</i>	<i>Turdus libonyana</i>	<i>Vanellus albiceps</i>	<i>Xiphorhynchus</i>
<i>Tringa guttifer</i>	<i>Turdus merula</i>	<i>Vanellus armatus</i>	<i>chunchotambo</i>
<i>Tringa incana</i>	<i>Turdus migratorius</i>	<i>Vanellus chilensis</i>	<i>Xiphorhynchus elegans</i>
<i>Tringa melanoleuca</i>	<i>Turdus nigriceps</i>	<i>Vanellus cinereus</i>	<i>Xiphorhynchus</i>
<i>Tringa nebularia</i>	<i>Turdus olivaceus</i>	<i>Vanellus coronatus</i>	<i>flavigaster</i>
<i>Tringa ochropus</i>	<i>Turdus poliocephalus</i>	<i>Vanellus crassirostris</i>	<i>Xiphorhynchus fuscus</i>
<i>Tringa semipalmata</i>	<i>Turdus rufopalliatu</i>	<i>Vanellus duvaucelii</i>	<i>Xiphorhynchus</i>
<i>Tringa solitaria</i>	<i>Turdus simillimus</i>	<i>Vanellus gregarius</i>	<i>guttatoides</i>
<i>Tringa stagnatilis</i>	<i>Turdus smithi</i>	<i>Vanellus indicus</i>	<i>Xiphorhynchus</i>
<i>Tringa totanus</i>	<i>Turdus subalaris</i>	<i>Vanellus lugubris</i>	<i>guttatus</i>
<i>Trochalopteron</i>	<i>Turdus unicolor</i>	<i>Vanellus malabaricus</i>	<i>Xiphorhynchus</i>
<i>cachinnans</i>	<i>Turnix castanotus</i>	<i>Vanellus melanopterus</i>	<i>susurrans</i>
<i>Trochalopteron</i>	<i>Turnix maculosus</i>	<i>Vanellus miles</i>	<i>Xolmis dominicanus</i>
<i>fairbanki</i>	<i>Turnix melanogaster</i>	<i>Vanellus</i>	<i>Zanclostomus</i>
<i>Trochalopteron</i>	<i>Turnix nanus</i>	<i>novaehollandiae</i>	<i>javanicus</i>
<i>melanostigma</i>	<i>Turnix nigricollis</i>	<i>Vanellus senegallus</i>	<i>Zanda baudinii</i>
<i>Trochalopteron milnei</i>	<i>Turnix ocellatus</i>	<i>Vanellus spinosus</i>	<i>Zanda funerea</i>
<i>Trochalopteron</i>	<i>Turnix olivii</i>	<i>Vanellus superciliosus</i>	<i>Zanda latirostris</i>
<i>peninsulae</i>	<i>Turnix pyrrhoro</i>	<i>Vanellus tectus</i>	<i>Zapornia akool</i>
<i>Trochocercus bivittatus</i>	<i>Turnix pyrrhothorax</i>	<i>Vanellus tricolor</i>	<i>Zapornia flavirostra</i>
<i>Trochocercus</i>	<i>Turnix suscitator</i>	<i>Vanellus vanellus</i>	<i>Zapornia fusca</i>
<i>cyanomelas</i>	<i>Turnix sylvaticus</i>	<i>Vauriella gularis</i>	<i>Zapornia olivieri</i>
<i>Troglodytes aedon</i>	<i>Turnix tanki</i>	<i>Vauriella insignis</i>	<i>Zapornia parva</i>
<i>Troglodytes hiemalis</i>	<i>Turnix varius</i>	<i>Veles binotatus</i>	<i>Zapornia paykullii</i>
<i>Troglodytes pacificus</i>	<i>Turnix velox</i>	<i>Veniliornis affinis</i>	<i>Zapornia tabuensis</i>
<i>Troglodytes</i>	<i>Turnix worcesteri</i>	<i>Veniliornis cassini</i>	<i>Zebrilus undulatus</i>
<i>trogodytes</i>	<i>Turtur afer</i>	<i>Veniliornis frontalis</i>	<i>Zenaida asiatica</i>
<i>Trogon ambiguus</i>	<i>Turtur brehmeri</i>	<i>Veniliornis kirkii</i>	<i>Zenaida auriculata</i>
<i>Trogon aurantius</i>	<i>Turtur chalcospilos</i>	<i>Veniliornis lignarius</i>	<i>Zenaida macroura</i>
<i>Trogon collaris</i>	<i>Turtur tympanistria</i>	<i>Veniliornis</i>	<i>Zentrygon albifacies</i>
<i>Trogon curucui</i>	<i>Tychaedon barbata</i>	<i>maculifrons</i>	<i>Zentrygon frenata</i>
<i>Trogon melanurus</i>	<i>Tychaedon coryphoeus</i>	<i>Veniliornis mixtus</i>	<i>Zentrygon linearis</i>
<i>Trogon mexicanus</i>	<i>Tychaedon leucosticta</i>	<i>Veniliornis passerinus</i>	<i>Zimmerius chrysops</i>
<i>Trogon personatus</i>	<i>Tychaedon</i>	<i>Veniliornis spilogaster</i>	<i>Zimmerius gracilipes</i>
<i>Trogon rufus</i>	<i>quadrivirgata</i>	<i>Verreauxia africana</i>	<i>Zimmerius improbus</i>
<i>Trogon surrucura</i>	<i>Tychaedon signata</i>	<i>Vidua paradisaea</i>	<i>Zoonavena grandidieri</i>
<i>Trogon violaceus</i>	<i>Tympanuchus cupido</i>	<i>Vidua regia</i>	<i>Zoonavena sylvatica</i>
<i>Trogon viridis</i>	<i>Tympanuchus</i>	<i>Vireo olivaceus</i>	<i>Zoothera aurea</i>
<i>Tunchiornis luteifrons</i>	<i>pallidicinctus</i>	<i>Vireo sclateri</i>	<i>Zoothera dauma</i>
<i>Tunchiornis</i>	<i>Tympanuchus</i>	<i>Vireolanius leucotis</i>	<i>Zosterops eurycritotus</i>
<i>ochraceiceps</i>	<i>phasianellus</i>	<i>Vultur gryphus</i>	<i>Zosterops flavilateralis</i>
<i>Turdinus brevicaudatus</i>	<i>Tyto alba</i>	<i>Willisornis</i>	<i>Zosterops japonicus</i>
<i>Turdinus crassus</i>	<i>Tyto capensis</i>	<i>poecilinotus</i>	<i>Zosterops kikuyuensis</i>
<i>Turdinus crispifrons</i>	<i>Tyto longimembris</i>	<i>Xanthomixis apperti</i>	<i>Zosterops</i>
<i>Turdinus</i>	<i>Tyto multipunctata</i>	<i>Xanthotis macleayanus</i>	<i>maderaspatanus</i>
<i>macrodactylus</i>	<i>Tyto novaehollandiae</i>	<i>Xenopipo atronitens</i>	<i>Zosterops mbuluensis</i>
<i>Turdinus marmoratus</i>	<i>Tyto tenebricosa</i>	<i>Xenopipo uniformis</i>	<i>Zosterops meyeri</i>
<i>Turdoides reinwardtii</i>	<i>Upucerthia validirostris</i>	<i>Xenops genibarbis</i>	<i>Zosterops pallidus</i>
<i>Turdoides sharpei</i>	<i>Upupa epops</i>	<i>Xenops minutus</i>	<i>Zosterops palpebrosus</i>
<i>Turdoides striata</i>	<i>Upupa marginata</i>	<i>Xenops rutilus</i>	<i>Zosterops virens</i>
<i>Turdus abyssinicus</i>	<i>Uratelornis chimaera</i>	<i>Xenopsaris albinucha</i>	<i>Zosterornis</i>
<i>Turdus albicollis</i>	<i>Uria aalge</i>	<i>Xenus cinereus</i>	<i>hypogrammicus</i>
<i>Turdus arthuri</i>	<i>Uria lomvia</i>	<i>Xipholena</i>	<i>Zosterornis striatus</i>
<i>Turdus assimilis</i>	<i>Urocissa erythroryncha</i>	<i>atropurpurea</i>	<i>Zosterornis whitehea</i>
<i>Turdus atrogularis</i>	<i>Urocolius indicus</i>	<i>Xipholena</i>	
<i>Turdus debilis</i>	<i>Urocolius macrourus</i>	<i>punicea</i>	
<i>Turdus eunomus</i>	<i>Uropelia campestris</i>		
	<i>Uropsalis lyra</i>		

