Supporting Information

Table S1. The 19 bioclimatic variables used in the species distribution modelling, available from www.world-clim.org (Hijmans *et al.* 2005).

BIOCLIM variable	Description
BIO1	Annual mean temperature
BIO2	Mean diurnal range of temperatures (Mean of monthly (max temp - min temp))
BIO3	Isothermality ((BIO2/BIO7)*100)
BIO4	Temperature seasonality (standard deviation*100)
BIO5	Maximum temperature of warmest month
BIO6	Minimum temperature of coldest month
BIO7	Temperature annual range (BIO5 - BIO6)
BIO8	Mean temperature of wettest quarter
BIO9	Mean temperature of driest quarter
BIO10	Mean temperature of warmest quarter
BIO11	Mean temperature of coldest quarter
BIO12	Annual precipitation
BIO13	Precipitation of wettest month
BIO14	Precipitation of driest month
BIO15	Precipitation seasonality (coefficient of variation)
BIO16	Precipitation of wettest quarter
BIO17	Precipitation of driest quarter
BIO18	Precipitation of warmest quarter

BIO19	Precipitation of coldest quarter

Table S2. Results of Kruskal-Wallis tests between the three groups (bats, rodents, shrews) in three aspects (taxonomic, functional, phylogenetic) and three components (βsor, βsim, βnes) of beta diversity. All pair-wise comparisons between groups were significant at $p < 0.001$ (Nemenyi test).

	βsor	**βsim**	**βnes**
Taxonomic	2894.9*	2992.0*	3435.7*
Functional	246.5*	1928.2*	1178.0*
Phylogenetic	5178.6*	4340.8*	168.0*

* $p < 0.001$

Table S3. Traits used to calculate functional beta diversity of bats, rodents, and shrews in sub-Saharan Africa.

Traits	Trait type	Values	Bats	Rodents	Shrews
Mass	Morphology	Mean (g)	Yes	Yes	Yes
Forearm length	Morphology	Mean (mm)	Yes		
Head-body length	Morphology	Mean (mm)	Yes	Yes	Yes
Tail length	Morphology	Mean (mm)	Yes	Yes	Yes
Hindfoot length	Morphology	Mean (mm)	Yes	Yes	Yes
Ear length	Morphology	Mean (mm)	Yes	Yes	Yes
Greatest skull length	Morphology	Mean (mm)	Yes	Yes	Yes
Zygomatic breadth	Morphology	Mean (mm)	Yes	Yes	Yes
Canine-3rd molar length	Morphology	Mean (mm)	Yes		
1st molar-3rd molar length	Morphology	Mean (mm)		Yes	
Incisor-3rd molar length	Morphology	Mean (mm)			Yes
Open-air	Locomotory	Categorical: 0, 1	Yes		
Clutter	Locomotory	Categorical: 0, 1	Yes		
Edge	Locomotory	Categorical: 0, 1	Yes		
Fruit bat	Locomotory	Categorical: 0, 1	Yes		
Terrestrial	Locomotory	Categorical: 0, 1		Yes	Yes
Arboreal	Locomotory	Categorical: 0, 1		Yes	Yes
Semi-aquatic	Locomotory	Categorical: 0, 1		Yes	Yes
Rupicolous	Locomotory	Categorical: 0, 1		Yes	Yes

Figure S1. Boxplots of pairwise taxonomic beta diversity showing total (βsor), turnover (βsim), and nestedness (βnes) for communities of bats, rodents, and shrews within each of six bioregions of sub-Saharan Africa.

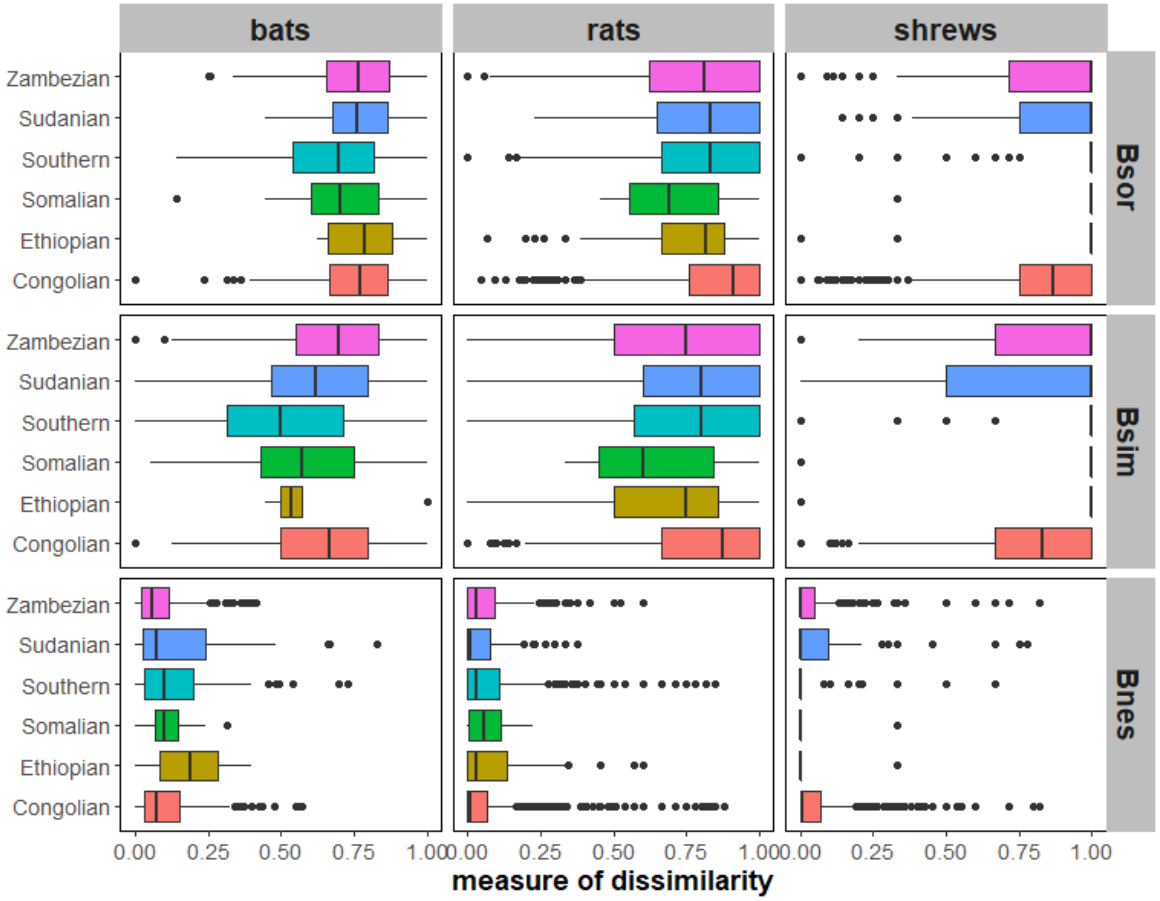


Figure S2. Boxplots of pairwise functional beta diversity showing total (βsor), turnover (βsim), and nestedness (βnes) for communities of bats, rodents, and shrews within each of six bioregions of sub-Saharan Africa. Note that sites had to have at least three species of shrews to be able to generate an output in the package 'betapart' since two morphological traits (two PCA axes) were being used (see Methods for more details). Hence only a single site in the Ethiopian region and none in the Somalian region met this requirement, and hence are not included here.

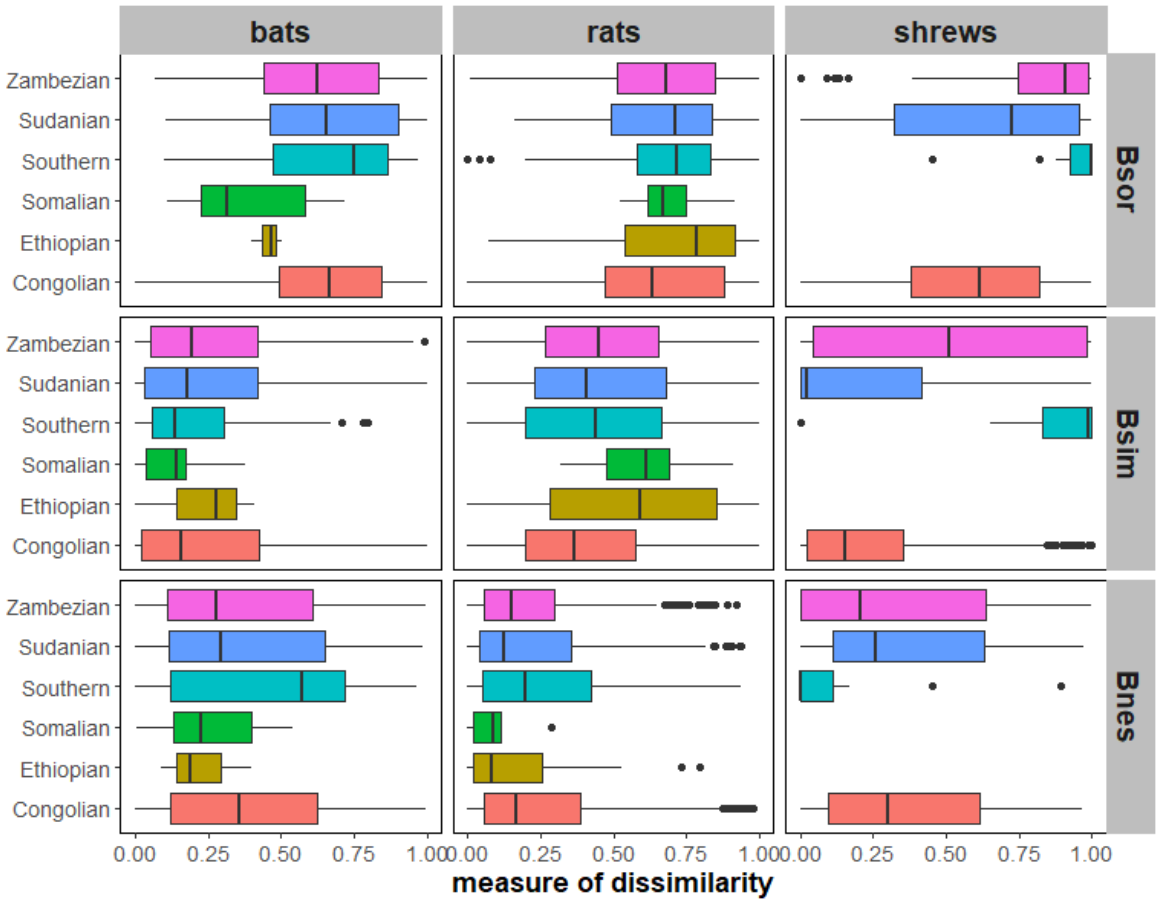


Figure S3. Boxplots of pairwise phylogenetic beta diversity showing: (A) total (βsor); (B) turnover (βsim); and (C) nestedness (βnes) for communities of bats, rodents, and shrews within each of six bioregions of sub-Saharan Africa.

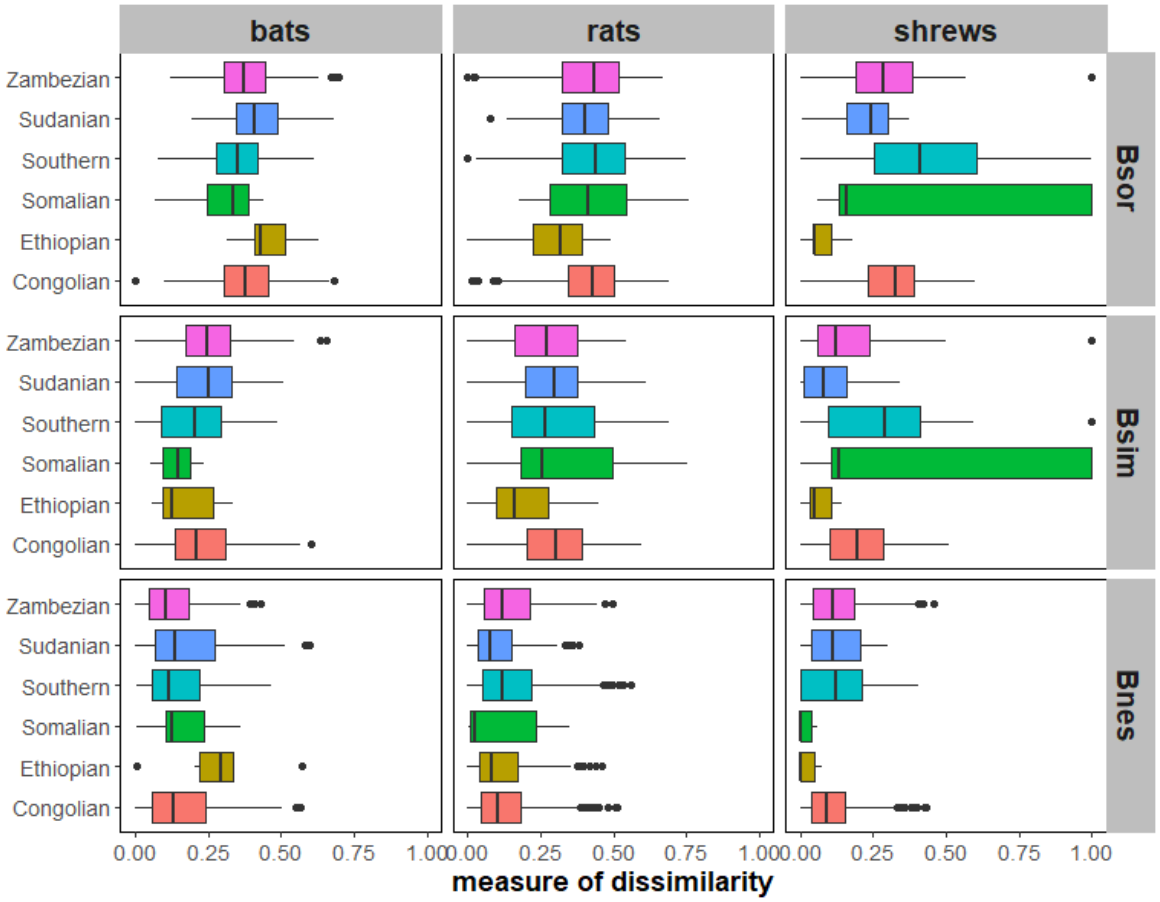


Figure S4. Heatmap of taxonomic beta diversity of bats, rodents, and shrews between the six biogeographical regions.

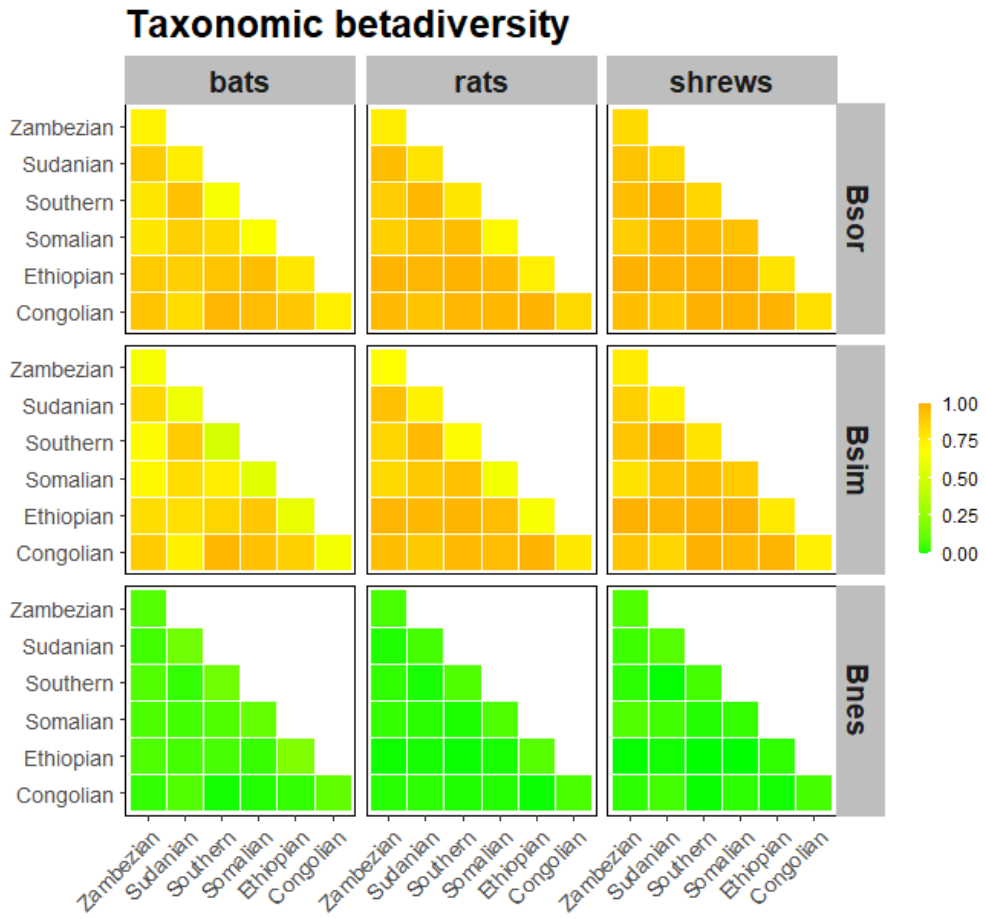


Figure S5. Heatmap of functional beta diversity of bats, rodents, and shrews between the six biogeographical regions. Note that sites had to have at least three species of shrews to be able to generate an output in the package 'betapart' since two morphological traits (two PCA axes) were being used (see Methods for more details). None of the sites in the Somalian region met this requirement, and hence this region is not included in the comparisons here.

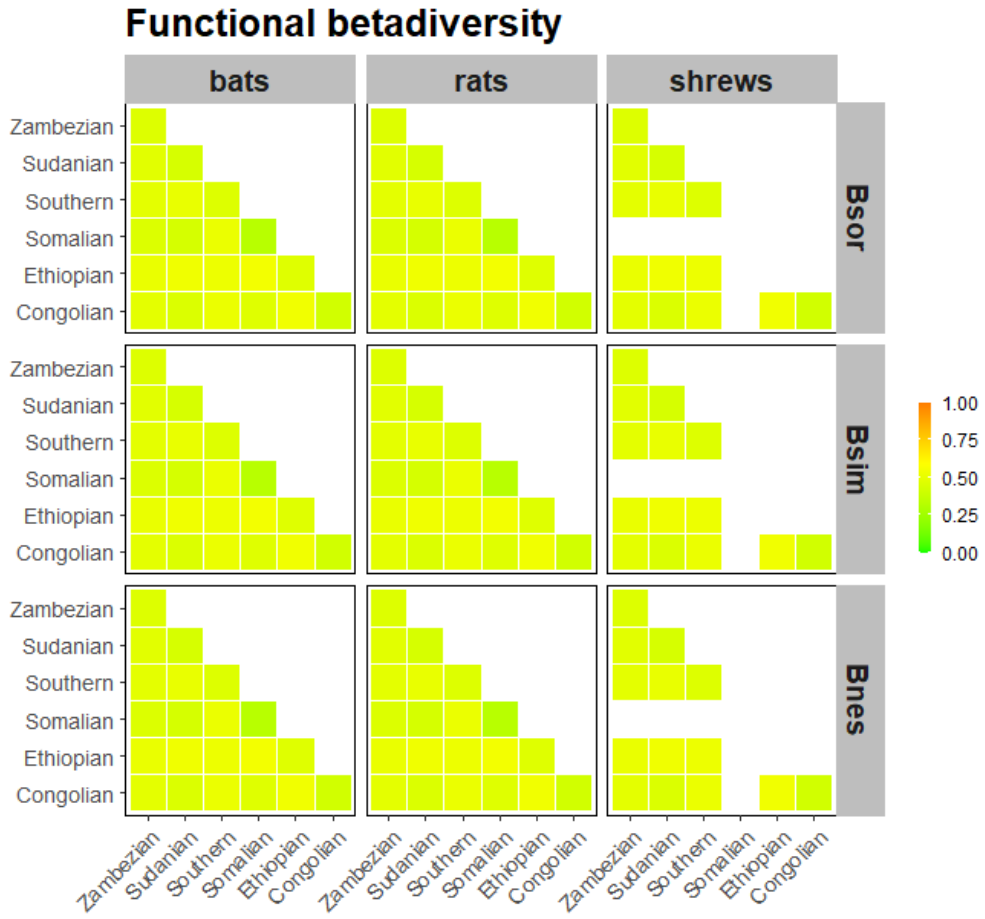
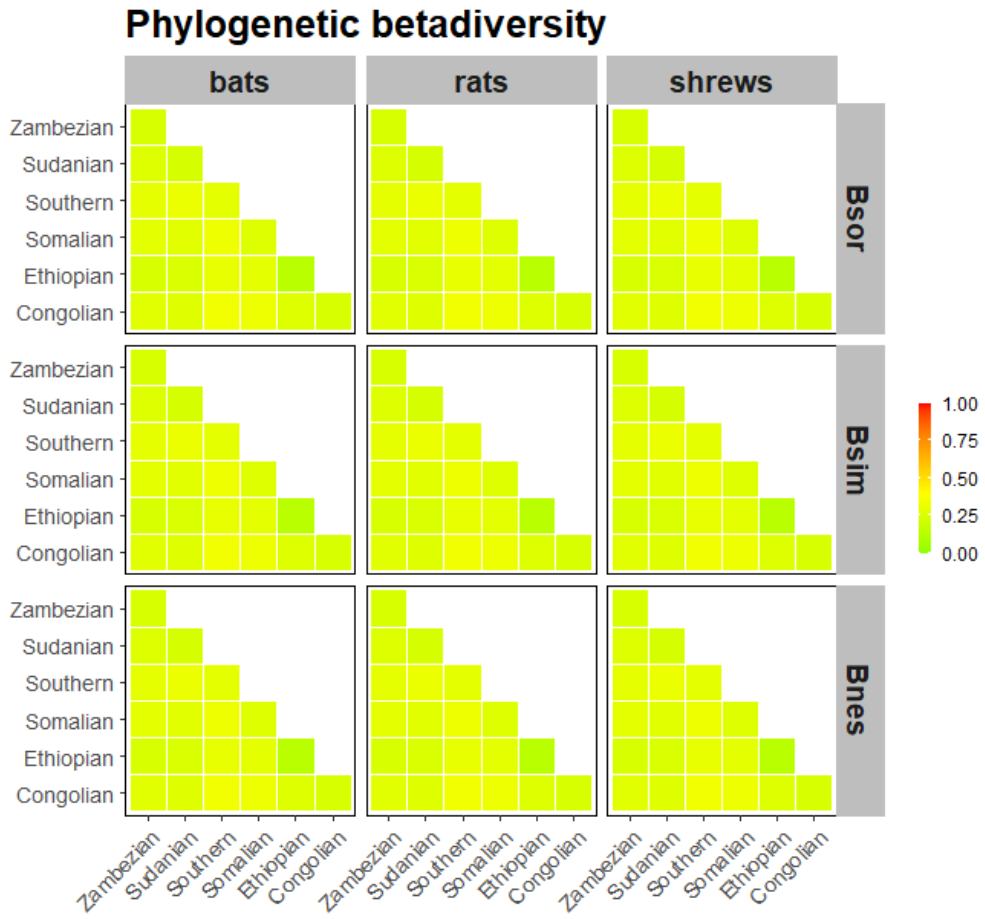


Figure S6. Heatmap of phylogenetic beta diversity of bats, rodents, and shrews between the six biogeographical regions.



Appendix 1. The papers from which records of the presence of small mammals were extracted for this study.

The csv files that contain the location data for the three small mammal groups can be located on the following github site: https://github.com/kanead/beta_diversity and are named "Bats_sites1.csv", "Rats_sites1.csv", and "Shrews_sites1.csv", respectively. For each site, we provide a citation to the paper(s) from which the data were extracted. These citations are fully referenced here.

Bats

The papers that we used for the bat presence data as specified in the datafile "Bats_sites1.csv" are presented here in chronological order: Meester 1962; Rautenbach 1971; Fenton 1975, 1980; Poche 1975; Stuart 1975; Archer 1977; O'Shea & Vaughan 1980; Schlitter *et al.* 1982; Aldridge & Rautenbach 1987; Happold *et al.* 1987; Varty 1990; Hutterer *et al.* 1992; Rautenbach *et al.* 1996; Fenton *et al.* 1998; Cockle *et al.* 1998; Leirs *et al.* 1999; Van Cakenberghe *et al.* 1999; Angelici *et al.* 2000; Meinig 2000; Lunde *et al.* 2001; Rainho & Franco 2001; Ziegler *et al.* 2002; Fahr & Ebigbo 2003; Lavrenchenko *et al.* 2004, 2010; Webala *et al.* 2004, 2019; Stanley *et al.* 2005a, b, 2007; Fahr *et al.* 2006; Kruskop & Lavrenchenko 2006, 2008; Rainho *et al.* 2007; Rovero & De Luca 2007; Monadjem & Reside 2008; Schoeman & Jacobs 2008; Stanley & Foley 2008; Fils 2009; Kerbis Peterhans *et al.* 2010; Monadjem *et al.* 2010, 2018, 2021; Decher *et al.* 2010, 2015; Fahr & Kalko 2011; Schoeman & Waddington 2011; Stanley & Goodman 2011a; Curran *et al.* 2012; Denys *et al.* 2013; Bakwo Fils *et al.* 2014; Bayliss *et al.* 2014; Kruskop *et al.* 2016; Rainho & Palmeirim 2017; Wechuli *et al.* 2017; Malekani *et al.* 2018; Atagana *et al.* 2018; Taylor *et al.* 2018; Mongombe *et al.* 2019; Musila *et al.* 2019; Tanshi *et al.* 2019; Weber *et al.* 2019; Mamba *et al.* 2021.

Rodents

The papers that we used for the rodent presence as specified in the datafile "Rats_sites1.csv" are presented here in chronological order: Nel & Rautenbach 1975; Happold 1977; Hutterer 1977; Withers 1979; Bond *et al.* 1980; Christian 1980; Traore *et al.* 1980; Kern 1981; Jooste & Palmer 1982; Neal 1984; Gliwicz 1985; Martin 1985; Dieterlen 1986; Gliwicz 1987; Duplantier 1989; Gubista 1989; Happold & Happold 1989b, a, 1990; Kerley *et al.* 1990; Varty 1990; Happold & Happold 1991; Hutterer *et al.* 1992; Kerley & Erasmus 1992; Korn 1992; Wirminghaus & Perrin 1993; Hughes *et al.* 1994; Ferreira & Van Aarde 1996; Decher 1997; Lavrenchenko *et al.* 1997; Linzey & Kesner 1997; Kerbis Peterhans *et al.* 1998; Ray 1998; Van Cakenberghe *et al.* 1999; Decher & Bahian 1999; Leirs *et al.* 1999; Avenant 2000; O'Brien *et al.* 2000; Clausnitzer & Kityo 2001; Decher *et al.* 2001; Avenant & Kuyler 2002; Caro 2002; Granjon *et al.* 2002; Johnson *et al.* 2002; Ziegler *et al.* 2002; Kasangaki *et al.* 2003; Mahlaba & Perrin 2003; Monadjem & Perrin 2003; Nicolas *et al.* 2003; Nicolas & Colyn 2003; Granjon *et al.* 2004; Angelici & Luiselli 2005; Granjon *et al.* 2005; Hoffmann & Zeller 2005; Katuala *et al.* 2005; Mukinzi *et al.* 2005; Stanley *et al.* 2005b; Webala *et al.* 2006; Datiko *et al.* 2007; Fitzherbert *et al.* 2007; Rovero & De Luca 2007; Stanley & Hutterer 2007; Stanley *et al.* 2007; Yarnell *et al.* 2007; Habtamu & Bekele 2008; Mulungu *et al.* 2008; Stanley & Foley 2008; Denys *et al.* 2009; Makundi *et al.* 2009; Kerbis Peterhans *et al.* 2010; Nicolas *et al.* 2010; Webala *et al.* 2010; Denys *et al.* 2011; Granjon & Duplantier 2011; Stanley & Goodman 2011b; Girma *et al.* 2012; Kok *et al.* 2012; MacFadyen *et al.* 2012; Ba *et al.* 2013; Datiko 2013; Habtamu & Bekele 2013; Hurst *et al.* 2013; Symes *et al.* 2013; Tuyisingize 2013; Bosing *et al.* 2014; Jacquet *et al.* 2014; Rautenbach *et al.* 2014; Stanley *et al.* 2014; Taylor *et al.* 2014; Adam *et al.* 2015; Benjamin *et al.* 2015; Fekdu, A., Bekele, A., Datiko 2015; Plavsic 2015; Terefe & Samuel 2015; Codron *et al.* 2016; Namukonde *et al.* 2017; Simelane *et al.* 2017; Akpatou *et al.* 2018; Gumbi *et al.* 2018; Harris *et al.* 2018; Taylor *et al.* 2018; Kostin *et al.* 2019; Mayamba *et al.* 2019; Weber *et al.* 2019; Craig *et al.* 2020; Mamba *et al.* 2021.

Shrews:

The papers that we used for the insectivore presence as specified in the datafile "Shrews_sites1.csv" are presented here in chronological order: Happold 1977; Withers 1979; Bond *et al.* 1980; Kern 1981; Jooste & Palmer 1982; Neal 1984; Brosset 1988; Happold & Happold 1989a, b, 1990, 1991; Kerley *et al.* 1990; Varty 1990; Hutterer *et al.* 1992; Kerley & Erasmus 1992; Korn 1992; Wirminghaus & Perrin 1993; Ferreira & Van Aarde 1996; Hutterer & Schlitter 1996; Decher 1997; Lavrenchenko *et al.* 1997; Linzey & Kesner 1997; Kerbis Peterhans *et al.* 1998, 2010; Ray 1998; Decher & Bahian 1999; Leirs *et al.* 1999; Van Cakenberghe *et al.* 1999; Avenant 2000; O'Brien *et al.* 2000; Decher *et al.* 2001; Goodman *et al.* 2001; Caro 2002; Avenant & Kuyler 2002; Johnson *et al.* 2002; Ziegler *et al.* 2002; Kasangaki *et al.* 2003; Mahlaba & Perrin 2003; Monadjem & Perrin 2003; Nicolas & Colyn 2003; Nicolas *et al.* 2003, 2010; Churchfield *et al.* 2004; Goodman & Hutterer 2004; Granjon *et al.* 2004, 2005; Oguge *et al.* 2004; Angelici & Luiselli 2005; Hoffmann & Zeller 2005; Mukinzi *et al.* 2005; Barrière *et al.* 2005; Stanley *et al.* 2005b, 2011, 2014; Webala *et al.* 2006, 2010; Fitzherbert *et al.* 2007; Rovero & De Luca 2007; Stanley & Hutterer 2007; Yarnell *et al.* 2007; Gambalemoke *et al.* 2008b, a; Habtamu & Bekele 2008, 2013; Mulungu *et al.* 2008; Stanley & Foley 2008; Denys *et al.* 2009, 2011, 2014, 2021; Girma *et al.* 2012; Kok *et al.* 2012; Datiko 2013; Hurst *et al.* 2013; Ba *et al.* 2013; Symes *et al.* 2013; Tuyisingize 2013; Rautenbach *et al.* 2014; Taylor *et al.* 2014, 2018; Bosing *et al.* 2014; Adam *et al.* 2015; Fekdu, A., Bekele, A., Datiko 2015; Terefe & Samuel 2015; Namukonde *et al.* 2017; Simelane *et al.* 2017; Akpatou *et al.* 2018; Gumbi *et al.* 2018; Weber *et al.* 2019; Craig *et al.* 2020; Mamba *et al.* 2021.

Appendix 2: Species accumulation curves for the three African small mammal groups (bats, rodents, and shrews) based on the datasets used in this study

The csv files that contain the location data for the three small mammal groups can be located on the following github site: https://github.com/kanead/beta_diversity and are named “Bats_sites1.csv”, “Rats_sites1.csv”, and “Shrews_sites1.csv”, respectively. An important question relates to how well this dataset reflects the true species richness of these sites. In an attempt to answer this question, we have plotted species accumulation curves [using the function specaccum() in the R package ‘vegan’] for each of the three taxa referred to in this study (Figure S7). None of the three curves has reached the asymptote, however, all of them have started to taper off. This suggests that, while some species may have been overlooked, in general, we can consider these data to be representative of species richness on the continent of Africa.

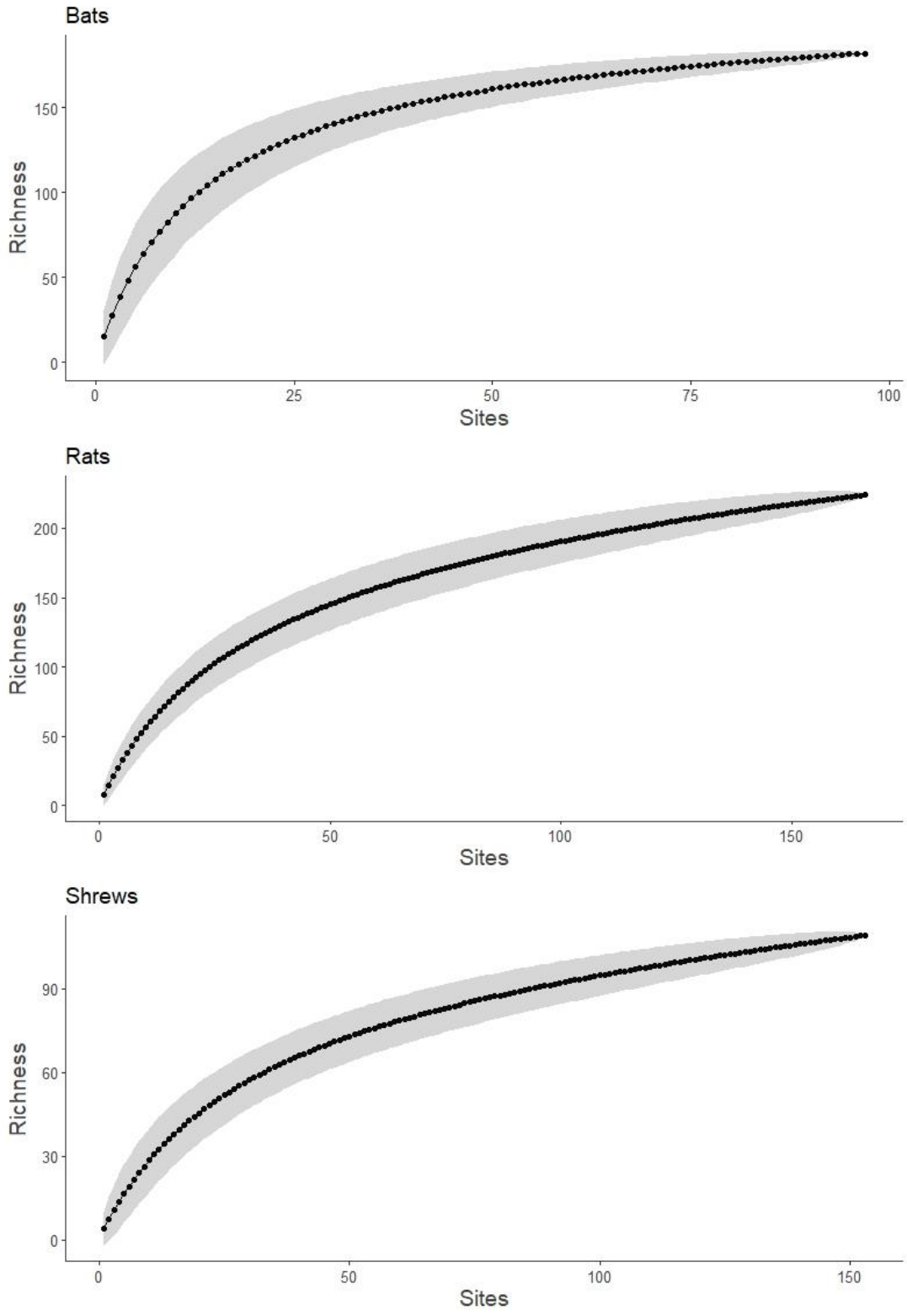


Figure S7. Species accumulation curves for the bats, rodents, and insectivore datasets. Note that all three curves have started to taper off.

References

Adam, M., Welegerima, K. & Meheretu, Y. (2015). Abundance and community composition of small mammals in different habitats in Hugumburda forest, northern Ethiopia. *Int. J. Biodivers. Conserv.*, 7, 119–125.

Akpatou, B.K., Bohoussou, K.H., Kadjo, B. & Nicolas, V. (2018). Terrestrial small mammal diversity and abundance in Tai National Park, Cote d'Ivoire. *Nat. Conserv. Res.*, 3, 66–75.

Aldridge, H.D.J.N. & Rautenbach, I.L. (1987). Morphology, echolocation and resource partitioning in insectivorous bats. *J. Anim. Ecol.*, 56, 763–778.

Angelici, F.M. & Luiselli, L. (2005). Patterns of specific diversity and population size in small mammals from arboreal and ground-dwelling guilds of a forest area in southern Nigeria. *J. Zool.*, 265, 9–16.

Angelici, F.M., Wariboko, S.M., Luiselli, L. & Politano, E. (2000). A long-term ecological survey of bats (Chiroptera) in the eastern Niger Delta (Nigeria). *Ital. J. Zool.*, 67, 169–174.

Archer, A.L. (1977). Results of the Winifred T. Carter Expedition 1975 to Botswana, mammals - Chiroptera. *Botswana Notes Rec.*, 9, 145–154.

Atagana, J.P., Bakwo, F.E.M., Mbeng, D.W., Tsague, K.J.A. & Kekeunou, S. (2018). The bat fauna of the Mpem and Djim National Park , Cameroon (Mammalia Chiroptera). *Biodivers. J.*, 9, 241–254.

Avenant, N. & Kuyler, P. (2002). Small mammal diversity in the Maguga Dam inundation area , Swaziland. *South African J. Wildl. Res.*, 32 (2), 101–108.

Avenant, N.L. (2000). Small mammal community characteristics as indicators of ecological disturbance in the Willem Pretorius Nature Reserve, Free State, South Africa. *African J. Wildl. Res.*, 30, 26–33.

Ba, K., Kane, M., Gauthier, P. & Granjon, L. (2013). Ecology of a typical west African sudanian savannah rodent community. *Afr. J. Ecol.*, 51, 447–455.

Bakwo Fils, E.M., Anong, A.G.B.A., Tsala, D.B., Guieké, B.B., Tsala, D.E. & Fotso, A.K. (2014). Diversity

of bats of the Far North Region of Cameroon – with two first records for the country. *Biodiversity*, 1–7.

Barrière, P., Hutterer, R., Nicolas, V., Quérouil, S. & Colyn, M. (2005). Investigating the role of natural gallery forests outside the Congolese rainforest as a refuge for African forest shrews. *Belgian J. Zool.*, 135, 21–29.

Bayliss, J., Timberlake, J., Branch, W., Bruessow, C., Collins, S., Congdon, C., *et al.* (2014). The discovery, biodiversity and conservation of Mabu forest - the largest medium-altitude rainforest in southern Africa. *Oryx*, 48, 177–185.

Benjamin, Y.O., Daniel, K.A., Erasmus, H.O., Rosina, K.Y.M., Jones, K.Q. & Yaa, N.B. (2015). Seasonal changes in small mammal assemblage in Kogyae Strict Nature Reserve, Ghana. *Int. J. Biodivers. Conserv.*, 7, 238–244.

Bond, W., Ferguson, M. & Forsyth, G. (1980). Small mammals and habitat structure along altitudinal gradients in the southern Cape mountains. *South African J. Zool.*, 15, 34–43.

Bosing, B.M., Haarmeyer, D.H., Dengler, J., Ganzhorn, J.U. & Schmiedel, U. (2014). Effects of livestock grazing and habitat characteristics on small mammal communities in the Knersvlakte, South Africa. *J. Arid Environ.*, 104, 124–131.

Brosset, A. (1988). Le peuplement de mammiferes insectivores des forets du nord-est du Gabon. *Rev Ecol Terre Vie*, 43, 23–46.

Van Cakenberghe, V., De Vree, F. & Leirs, H. (1999). On a collection of bats (Chiroptera) from Kikwit, Democratic Republic of the Congo. *Mammalia*, 63, 291–322.

Caro, T.M. (2002). Factors affecting the small mammal community inside and outside Katavi National Park, Tanzania. *Biotropica*, 34, 310–318.

Christian, D.P. (1980). Vegetative cover, water resources, and microdistributional patterns in a desert rodent community. *J. Anim. Ecol.*, 49, 807–816.

Churchfield, S., Barrière, P., Hutterer, R. & Colyn, M. (2004). First results on the feeding ecology of sympatric shrews (Insectivora: Soricidae) in the Tai National Park, Ivory Coast. *Acta Theriol.*

(Warsz)., 49, 1–15.

Clausnitzer, V. & Kityo, R. (2001). Altitudinal distribution of rodents (Muridae and Gliridae) on Mt Elgon, Uganda. *Trop. Zool.*, 14, 95–118.

Cockle, A., Kock, D., Stublefield, L., Howell, K.M. & Burgess, N.D. (1998). Bat assemblages in Tanzanian coastal forests. *Mammalia*, 62, 53–68.

Codron, J., Duffy, K.J., Avenant, N.L., Sponheimer, M., Leichliter, J., Paine, O., *et al.* (2016). Stable isotope evidence for trophic niche partitioning in a South African savanna rodent community. *Curr. Zool.*, 61, 397–411.

Craig, E.W., Stanley, W.T., Kerbis Peterhans, J.C., Bryja, J. & Meheretu, Y. (2020). Small terrestrial mammal distributions in Simien Mountains National Park, Ethiopia: a reassessment after 88 years. *J. Mammal.*, 101, 634–647.

Curran, M., Kopp, M., Beck, J. & Fahr, J. (2012). Species diversity of bats along an altitudinal gradient on Mount Mulanje, southern Malawi. *J. Trop. Ecol.*, 28, 243–253.

Datiko, D. (2013). Species composition and abundance of small mammals in Chebera-Churchura National Park, Ethiopia. *J. Ecol. Nat. Environ.*, 5, 95–102.

Datiko, D., Bekele, A. & Belay, G. (2007). Species composition, distribution and habitat association of rodents from Arbaminch forest and farmlands, Ethiopia. *Afr. J. Ecol.*, 45, 651–657.

Decher, J. (1997). Conservation, small mammals, and the future of sacred groves in West Africa. *Biodivers. Conserv.*, 6, 1007–1026.

Decher, J. & Bahian, L.K. (1999). Diversity and structure of terrestrial small mammal communities in different vegetation types on the Accra Plains of Ghana. *J. Zool. London*, 247, 395–408.

Decher, J., Hoffmann, A., Schaer, J., Norris, R.W., Kadjo, B., Astrin, J., *et al.* (2015). Bat diversity in the Simandou Mountain Range of Guinea , with the description of a new white-winged vespertilionid. *Acta Chiropterologica*, 17, 255–282.

Decher, J., Norris, R.W. & Fahr, J. (2010). Small mammal survey in the upper Seli River valley, Sierra Leone. *Mammalia*, 74, 163–176.

Decher, J., Oppong, J. & Fahr, J. (2001). Rapid assessment of small mammals at Draw River, Boi-Tano, and Krokosua Hills. In: *A biological assessment of the terrestrial ecosystems of the Draw River, Boi-Tana, Tano Nimiri and Krokosua Hills forest reserves, southwestern Ghana* (eds. Mcculloch, J., Decher, J. & Guba-Kpelle, D.). Conservation International, New York, USA, pp. 59–68.

Denys, C., Jacquet, F., Kadjo, B., Missoup, A.D., Aniskine, V., Goüy de Bellocq, J., *et al.* (2021). Shrews (Mammalia, Eulipotyphla) from a biodiversity hotspot, Mount Nimba (West Africa), with a field identification key to species. *Zoosystema*, 43, 729–757.

Denys, C., Kadjo, B., Missoup, A.D., Monadjem, A. & Aniskine, V. (2013). New records of bats (Mammalia: Chiroptera) and karyotypes from Guinean Mount Nimba (West Africa). *Ital. J. Zool.*, 80, 279–290.

Denys, C., Lalis, A., Lecompte, É., Cornette, R., Moulin, S., Makundi, R.H., *et al.* (2011). A faunal survey in Kingu Pira (south Tanzania), with new karyotypes of several small mammals and the description of a new Murid species (Mammalia, Rodentia). *Zoosystema*, 33, 5–47.

Denys, C., Missoup, A.D., Nicolas, V., Fülling, O., Delapré, A., Bilong Bilong, C.F., *et al.* (2014). African highlands as mammal diversity hotspots: new records of Lamottemys okuensis Petter, 1986 (Rodentia: Muridae) and other endemic rodents from Mt Oku, Cameroon. *Zoosystema*, 36, 647–690.

Denys, C., Missoup, A.D., Tchiengue, B., Achoundong, G., Ekobo, A., Bilong Bilong, C.F., *et al.* (2009). Altitudinal distribution and anthropogenic influence on small mammal assemblages on Mount Kupe, SW Cameroon. *Bonner Zool. Beiträge*, 56, 159–173.

Dieterlen, F. (1986). Seasonal reproduction and population dynamics in rodents of an African lowland rain forest. *Cimbebasia*, 8, 1–7.

Duplantier, J.-M. (1989). Les rongeurs myomorphes forestiers du nord-est du Gabon: structure du peuplement, demographie, domaines vitaus. *Rev Ecol Terre Vie*, 44, 329–346.

Fahr, J., Djossa, B.A. & Vierhaus, H. (2006). Rapid assessment of bats (Chiroptera) in Déré, Diécké and Mt. Béro classified forests, southeastern Guinea; including a review of the distribution of bats

in Guinée Forestière. In: *A rapid biological assessment of three classified forests in Southeastern Guinea* (eds. Wright, H.E., McCullough, J., Alonso, L.E. & Diallo, M.S.). Conservation International, RAP Bulletin of Biological Assessment, Washington DC, pp. 168– 180, 245–247.

Fahr, J. & Ebigbo, N.M. (2003). A conservation assessment of the bats of the Simandou Range, Guinea, with the first record of Myotis welwitschii (Gray, 1866) from West Africa. *Acta Chiropterologica*, 5, 125–141.

Fahr, J. & Kalko, E.K. V. (2011). Biome transitions as centres of diversity: habitat heterogeneity and diversity patterns of West African bat assemblages across spatial scales. *Ecography (Cop.).*, 34, 177–195.

Fekdu, A., Bekele, A., Datiko, D. (2015). Comparative study of species composition, relative abundance and distribution of rodents between exclosure and control sites in the Web Valley of the Bale Mountains National Park, Ethiopia Addishiwot. *Punjab Univ. J. Zool.*, 30, 57–64.

Fenton, M.B. (1975). Observations on the biology of some Rhodesian bats, including a key to the Chiroptera of Rhodesia. *Life Sci. Contrib. R. Ontario Museum*, 104, 1–27.

Fenton, M.B. (1980). Dry-season overlap in activity patterns, habitat use, and prey selection by sympatric African insectivorous bats. *Biotropica*, 12, 81–90.

Fenton, M.B., Cumming, D.H.M., Rautenbach, I.L., Cumming, G.S., Cumming, M.S., Ford, G., *et al.* (1998). Bats and the loss of tree canopy in African woodlands. *Conserv. Biol.*, 12, 339–407.

Ferreira, S.M. & Van Aarde, R.J. (1996). Changes in community characteristics of small mammals in rehabilitating coastal dune forests in northern KwaZulu/Natal. *Afr. J. Ecol.*, 34, 113–130.

Fils, E.M.B. (2009). Inventaire des chauves souris de la réserve de biosphère du Dja, Cameroun. *Le Vespère*, 2, 10.

Fitzherbert, E., Gardner, T., Caro, T. & Jenkins, P. (2007). Habitat preferences of small mammals in the Katavi ecosystem of western Tanzania. *Afr. J. Ecol.*, 45, 249–257.

Gambalemoke, M., Mukinzi, I., Amundala, D., Gembu, T., Kaswera, K., Katuala, G.B., *et al.* (2008a). Microgeographical distribution of shrews (Mammalia, Soricidae) in the Congo River basin

(Kisangani, D.R. Congo). *Mammalia*, 72, 213–222.

Gambalemoke, M., Mukinzi, I., Amundala, D., Katuala, G.B., Kennis, J., Dudu, A., *et al.* (2008b). Shrew trap efficiency: Experience from primary forest, secondary forest, old fallow land and old palm plantation in the Congo River basin (Kisangani, Democratic Republic of Congo). *Mammalia*, 72, 203–212.

Girma, Z., Bekele, A. & Hemson, G. (2012). Small mammals of Kaka and Hunkolo, Southeast Ethiopia. *Trop. Ecol.*, 53, 33–41.

Gliwicz, J. (1985). Rodent community of dry African savanna: population study. *Mammalia*, 49, 509–516.

Gliwicz, J. (1987). Niche segregation in a rodent community of African dry savanna. *J. Mammal.*, 1, 169–172.

Goodman, S.M. & Hutterer, R. (2004). A report on the shrews (Mammalia: Soricidae) of Monts Doudou, Gabon: elevational distribution and preliminary insights into their ecology. *Calif. Acad. Sci. Mem.*, 28, 93–105.

Goodman, S.M., Hutterer, R. & Ngnegueu, P.R. (2001). A report on the community of shrews (Mammalia: Soricidae) occurring in the Minkebe Forest, northeastern Gabon. *Mamm. Biol.*, 66, 22-+.

Granjon, L., Bruderer, C., Cosson, J.F., Dia, A.T. & Colas, F. (2002). The small mammal community of a coastal site of south-west Mauritania. *Afr. J. Ecol.*, 40, 10–17.

Granjon, L., Cosson, J.F., Quesseveur, E. & Sicard, B. (2005). Population dynamics of the multimammate rat Mastomys huberti in an annually flooded agricultural region of Central Mali. *J. Mammal.*, 86, 997–1008.

Granjon, L. & Duplantier, J.M. (2011). Guinean biodiversity at the edge: rodents in forest patches of southern Mali. *Mamm. Biol.*, 76, 583–591.

Granjon, L., Houssin, C., Lecompte, E., Angaya, M., César, J., Cornette, R., *et al.* (2004). Community ecology of the terrestrial small mammals of Zakouma National Park, Chad. *Acta Theriol.*

(Warsz)., 49, 215–234.

Gubista, K.R. (1989). Small mammals of Ituri Forest, Zaire: diversity and abundance in ecologically distinct habitats. *J. Mammal.*, 80, 252–262.

Gumbi, B.C., Shapiro, J.T., Mahlaba, T., Mccleery, R., Macfadyen, D. & Monadjem, A. (2018). Assessing the impacts of domesticated versus wild ungulates on terrestrial small mammal assemblages at Telperion Nature Reserve, South Africa. *African Zool.*, 53, 23–29.

Habtamu, T. & Bekele, A. (2008). Habitat association of insectivores and rodents of Alatish National Park, northwestern Ethiopia. *Trop. Ecol.*, 49, 1–11.

Habtamu, T. & Bekele, A. (2013). Species composition, relative abundance and habitat association of small mammals along the altitudinal gradient of Jiren Mountain, Jimma, Ethiopia. *Afr. J. Ecol.*, 51, 37–46.

Happold, D.C.D. (1977). A population study on small rodents in the tropical rain forest of Nigeria. *La Terre al Vie*, 31, 385–458.

Happold, D.C.D. & Happold, M. (1989a). Biogeography of Montane Small Mammals in Malawi, Central Africa. *J. Biogeogr.*, 16, 353–367.

Happold, D.C.D. & Happold, M. (1989b). Demography and habitat selection of small mammals on Zomba Plateau, Malawi. *J. Zool. London*, 219, 581–605.

Happold, D.C.D. & Happold, M. (1990). An ecological study of small rodents in two woodland savanna of Liwonde National Parks, Malawi. *J. Zool. London*, 221, 219–235.

Happold, D.C.D. & Happold, M. (1991). An ecological study of small rodents in the thicket-clump savanna of Lengwe National Park, Malawi. *J. Zool. London*, 223, 527–547.

Happold, D.C.D., Happold, M. & Hill, J.E. (1987). The bats of Malawi. *Mammalia*, 51, 337–414.

Harris, N.C., Garshong, R.A. & Gray, M. (2018). Distinct isotopic signatures reveal effect of ecoregion on small mammals of Ghana. *J. Mammal.*, 99, 117–123.

Hijmans, R.J., Cameron, S.E., Parra, J.L., Jones, P.G. & Jarvis, A. (2005). Very high resolution interpolated climate surfaces for global land areas. *Int. J. Climatol.*, 25, 1965–1978.

Hoffmann, A. & Zeller, U. (2005). Influence of variations in land use intensity on species diversity and abundance of small …. *Belgian J. Zool.*, 135, 89–94.

Hughes, J.J., Ward, D. & Perrin, M.R. (1994). Predation risk and competition affect habitat selection and activity of Namib desert gerbils. *Ecology*, 75, 1397–1405.

Hurst, Z.M., McCleery, R.A., Collier, B.A., Fletcher, R.J., Silvy, N.J., Taylor, P.J., *et al.* (2013). Dynamic edge effects in small mammal communities across a conservation-agricultural interface in Swaziland. *PLoS One*, 8.

Hutterer, R. (1977). Abwehrlaute afrikanischer Spitzmäuse der Gattung Crocidura Wagler, 1832 und ihre systematische Bedeutung. *Bonner Zool. Beiträge*, 28, 218–227.

Hutterer, R., Dieterlen, F. & Nikolaus, G. (1992). Small mammals from forest islands of eastern Nigeria and adjacent Cameroon, with systematical and biogeographical notes. *Bronner Zool. Beiträge*, 43, 393–414.

Hutterer, R. & Schlitter, D.A. (1996). Shrews of Korup National Park, Cameroon, with the description of a new Sylvisorex (Mammalia: Soricidae). In: *Contributions in mammalogy: a memorial volume honoring Dr. J. Knox Jones, Jr* (eds. Baker, R.J. & Genoways, H.H.). Museum of Texas Tech University, Lubbock, Texas, pp. 57–66.

Jacquet, F., Nicolas, V., Colyn, M., Kadjo, B., Hutterer, R., Decher, J., *et al.* (2014). Forest refugia and riverine barriers promote diversification in the West African pygmy shrew (Crocidura obscurior complex, Soricomorpha). *Zool. Scr.*, 43, 131–148.

Johnson, R., Ferguson, J.W.H., van Jaarsveld, A.S., Bronner, G.N. & Chimimba, C.T. (2002). Delayed responses of small-mammal assemblages subject to afforestation-induced grassland fragmentation. *J. Mammal.*, 83, 290–300.

Jooste, J.F. & Palmer, N.G. (1982). The distribution and habitat preference of some small mammals in the Rolfontein Nature Reserve. *South African J. Wildl. Res.*, 12, 26–35.

Kasangaki, A., Kityo, R. & Kerbis, J. (2003). Diversity of rodents and shrews along an elevational gradient in Bwindi Impenetrable National Park, south-western Uganda. *Afr. J. Ecol.*, 41, 115–

123.

Katuala, P.G.B., Hart, J. a, Hutterer, R., Leirs, H. & Dudu, A. (2005). Biodiversity and ecology of small mammals (Rodents and Shrews) of the “Reserve de Faune a Okapis”, Democratic Republic of the Congo. *Belgian J. Zool.*, 135, 191–196.

Kerbis Peterhans, J.C., Hutterer, R., Mwanga, J., Ndara, B., Davenport, L., Karhagomba, I.B., *et al.* (2010). African shrews endemic to the Albertine Rift: two new species of Myosorex (Mammalia: Soricidae) from Burundi and the Democratic Republic of Congo. *J. East African Nat. Hist.*, 99, 103–128.

Kerbis Peterhans, J.C., Kityo, R.M., Stanley, W.T. & Austin, P.K. (1998). Small mammals along an elevational gradient in Rwenzori Mountains National Park, Uganda. In: *The Rwenzori Mountains National Park, Uganda. Exploration, environment & biology.* (eds. Osmaston, H., Tukahirwa, J., Basalirwa, C. & Nyakaana, J.). Department of Geography, Makerere University, Kampala, pp. 149–171.

Kerley, G.I.H. & Erasmus, T. (1992). Small mammals in the semi-arid Karoo, South Africa: biomass and energy requirements. *J. Arid Environ.*, 22, 251–260.

Kerley, G.I.H., Knight, M.H. & Erasmus, T. (1990). Small mammal microhabitat use and diet in the southern Kalahari, South Africa. *South African J. Wildl. Res.*, 20, 123–126.

Kern, N.G. (1981). The influence of fire on populations of small mammals of the Kruger National Park. *Koedoe*.

Kok, A.D., Parker, D.M. & Barker, N.P. (2012). Life on high: The diversity of small mammals at high altitude in South Africa. *Biodivers. Conserv.*, 21, 2823–2843.

Korn, H. (1992). Intestine lengths of Southern African savanna rodents and insectivores: intra- and interspecific comparisons. *J. Zool. London*, 228, 455–460.

Kostin, D.S., Kasso, M., Komarova, V.A., Martynov, A.A., Gromov, A.R., Alexandrov, D.Y., *et al.* (2019). Taxonomic and genetic diversity of rodents from the Arsi Mountains (Ethiopia). *Mammalia*, 83, 273–283.

Kruskop, S. V, Benda, P., Vasenkov, D.A. & Lavrenchenko, L.A. (2016). First records of bats from the Alatish National Park, north-western Ethiopia (Chiroptera). *Lynx, n.s.*, 47, 51–69.

Kruskop, S. V & Lavrenchenko, L.A. (2006). First bat records in the Simien Mountains (Northern Ethiopia). *Russ. J. Theriol.*, 5, 59–62.

Kruskop, S. V & Lavrenchenko, L.A. (2008). Primary results of a bat survey in south-western Ethiopia , with a new Ethiopian record of Kerivoula lanosa (Chiroptera: Vespertilionidae). *Russ. J. Theriol.*, 7, 71–76.

Lavrenchenko, L.A., Kruskop, S. V & Morozov, P.N. (2004). Notes on the bats (Chiroptera) collected by the joint Ethiopian-Russian Biological Expedition, with remarks on their systematics, distribution, and ecology. *Bonner Zool. Beiträge*, 52, 127–147.

Lavrenchenko, L.A., Milishnikov, A.N., Aniskin, V.M., Warshavsky, A.A. & Gebrekidan, W. (1997). The genetic diversity of small mammals of the Bale Mountains, Ethiopia. *SINET Ethiop. J. Sci.*, 20, 213–233.

Lavrenchenko, L.A.A., Kruskop, S. V., Bekele, A., Belay, G., Morozov, P.N., Ivlev, Y.F., *et al.* (2010). Mammals of the Babille Elephant Sanctuary (Eastern Ethiopia). *Russ. J. Theriol.*, 9, 47–60.

Leirs, H., Mills, J.N., Krebs, J.W., Childs, J.E., Akaibe, D., Woollen, N., *et al.* (1999). Search for the Ebola virus reservoir in Kikwit, Democratic Republic of the Congo: reflections on a vertebrate collection. *J. Infect. Dis.*, 179, S155-163.

Linzey, A. V. & Kesner, M.H. (1997). Small mammals of a woodland-savannah ecosystem in Zimbabwe. I. Density and habitat occupancy patterns. *J. Zool. London*, 243, 137–152.

Lunde, D.P., Conway, T.M. & Beresford, P. (2001). Notes on a collection of bats (Chiroptera) from Dzanga-Sangha, Central African Republic. *Mammalia*, 65, 535–540.

MacFadyen, D.N., Avenant, N.L., van der Merwe, M. & Bredenkamp, G.J. (2012). The influence of fire on rodent abundance at the N'washitshumbe enclosure site, Kruger National Park, South Africa. *African Zool.*, 47, 138–146.

Mahlaba, T.A.M. & Perrin, M.R. (2003). Population dynamics of small mammals at Mlawula ,

Swaziland. *Afr. J. Ecol.*, 41, 317–323.

Makundi, R.H., Massawe, A.W., Mulungu, L.S. & Katakweba, A. (2009). Species diversity and population dynamics of rodents in a farm fallow field mosaic system in Central Tanzania. *Afr. J. Ecol.*, 48, 313–320.

Malekani, A.B., Musaba, P.A., Gembu, G.C.T., Bugentho, E.P., Toengaho, A.S., Badjedjea, G.B., *et al.* (2018). Preliminary inventory of bats (Mammalia, Chiroptera) in three protected areas of the Democratic Republic of the Congo. *Nat. Conserv. Res.*, 3, 92–96.

Mamba, M.L., Dalton, D.L., Mahlaba, T.A.M., Kropff, A.S. & Monadjem, A. (2021). Small mammals of a West African hotspot, the Ziama-Wonegizi-Wologizi transfrontier forest landscape. *Mammalia*, 85, 127–144.

Martin, G.H.. (1985). A population study of small rodents in a dry sub-humid grassland in Kenya. *J. Trop. Ecol.*, 1, 217–224.

Mayamba, A., Byamungu, R.M., Makundi, R.H., Kimaro, D.N., Isabirye, M., Massawe, A.W., *et al.* (2019). Species composition and community structure of small pest rodents (Muridae) in cultivated and fallow fields in maize-growing areas in Mayuge district, Eastern Uganda. *Ecol. Evol.*

Meester, J. (1962). Some mammals from the Namib Desert. *Ann. Transvaal Museum*, 24, 241–248.

Meinig, H. (2000). Notes on the mammal fauna of the southern part of the Republic of Mali, West Africa. *Bonner Zool. Beiträge*, 49, 101–114.

Monadjem, A., Kane, A., Taylor, P., Richards, L.R., Hall, G. & Woodborne, S. (2018). Morphology and stable isotope analysis demonstrate different structuring of bat communities in rainforest and savannah habitats. *R. Soc. Open Sci.*, 5, 180849.

Monadjem, A. & Perrin, M. (2003). Population fluctuations and community structure of small mammals in a Swaziland grassland over a three-year period. *African Zool.*, 38, 127–137.

Monadjem, A. & Reside, A. (2008). The influence of riparian vegetation on the distribution and abundance of bats in an African savanna. *Acta Chiropterologica*, 10, 339–348.

Monadjem, A., Schoeman, M.C., Reside, A., Pio, D.V., Stoffberg, S., Bayliss, J., *et al.* (2010). A recent inventory of the bats of Mozambique with documentation of seven new species for the country. *Acta Chiropterologica*, 12, 371–391.

Monadjem, A., Simelane, F., Shapiro, J.T., Gumbi, B.C., Sibiya, M.D., Lukhele, S.M., *et al.* (2021). Using species distribution models to gauge the completeness of the bat checklist of Eswatini. *Eur. J. Wildl. Res.*, 67, 21.

Mongombe, A.M., Bakwo Fils, E.M. & Tamesse, J.L. (2019). Diversity and altitudinal distribution of bats (Mammalia: Chiroptera) on Mount Cameroon. *Trop. Zool.*, 32, 166–187.

Mukinzi, I., Katuala, P.G.B., Kennis, J., Gambalemoke, M., Kadange, N., Dudu, A.M., *et al.* (2005). Preliminary data on the biodiversity of rodents and insectivores (Mammalia) in the periphery of Kisangani. *Belgian J. Zool.*, 135, 133–140.

Mulungu, L.S., Makundi, R.H., Massawe, A.W., Machang'u, R.S. & Mbije, N.E. (2008). Diversity and distribution of rodent and shrew species associated with variations in altitude on Mount Kilimanjaro, Tanzania. *Mammalia*, 72, 178–185.

Musila, S., Gichuki, N., Castro-Arellano, I. & Rainho, A. (2019). Composition and diversity of bat assemblages at Arabuko-Sokoke Forest and the adjacent farmlands, Kenya. *Mammalia*.

Namukonde, N., Kuebler, D. & Ganzhorn, J.U. (2017). Differential effects of fire on small mammal communities in the Busanga Flood Plain, Zambia. *Trop. Conserv. Sci.*, 10, 1–13.

Neal, B.R. (1984). Seasonal feeding habits of small mammals in Kenya. *Zeitschrift für Säugetierkd.*, 49, 226–234.

Nel, J.A.J. & Rautenbach, I.L. (1975). Habitat use and community structure of rodents in the southern Kalahari. *Mammalia*, 39, 9–30.

Nicolas, V., Barriere, P. & Colyn, M. (2003). Impact of removal pitfall trapping on the community of shrews (Mammalia : Soricidae) in two African tropical forest sites. *Mammalia*, 67, 133–138.

Nicolas, V. & Colyn, M. (2003). Seasonal variations in population and community structure of small rodents in a tropical forest of {Gabon. *Can. J. Zool.*, 81, 1034–1046.

Nicolas, V., Natta, A., Barriere, P., Delapre, A. & Colyn, M. (2010). Terrestrial small mammal diversity and abundance in central Benin: Comparison between habitats, with conservation implications. *Afr. J. Ecol.*, 48, 1092–1104.

O'Brien, C., Mcshea, W., Guimondou, S., Barriere, P. & Carleton, M. (2000). Terrestrial small mammals (Soricidae and Muridae) from the Gamba Complex of protected areas, Gabon: species composition and comparison of sampling techniques. *Bull. Biol. Soc. Washingt.*, 12, 353–363.

O'Shea, T.J. & Vaughan, T.A. (1980). Ecological observation on an East African bat community. *Mammalia*, 44, 485–496.

Oguge, N., Hutterer, R., Odhiambo, R. & Verheyen, W. (2004). Diversity and structure of shrew communities in montane forests of southeast Kenya. *Mamm. Biol.*, 69, 289–301.

Plavsic, M.J. (2015). Seasonal dynamics of macrohabitat use by small mammals in the Okavango Delta, Botswana: Implications for landscape-level disturbance resilience. *Afr. J. Ecol.*, 53, 44–53.

Poche, R.M. (1975). The bats of National Park W, Niger, Africa. *Mammalia*, 39, 39–50.

Rainho, A. & Franco, C. (2001). *Morcegos da Guiné-Bissau. Um contributo para o seu conhecimento*. Lisboa.

Rainho, A. & Palmeirim, J.M. (2017). Understanding the long term consequences of fragmentation: lessons from the bats of Bijagós (Guinea-Bissau, West Africa). *Hystrix, Ital. J. Mammal.*, 28, 173–179.

Rainho, A., Sousa, M., Monteiro, H., da Silva, C.S. & Palmeirim, J.M. (2007). *Morcegos e aves das florestas de Cantanhez e Cacine*. Bissau.

Rautenbach, A., Dickerson, T. & Schoeman, M.C. (2014). Diversity of rodent and shrew assemblages in different vegetation types of the savannah biome in South Africa: no evidence for nested subsets or competition. *Afr. J. Ecol.*, 52, 30–40.

Rautenbach, I.L. (1971). Notes on the small mammals of the Kalahari Gemsbok National Park. *Koedoe*, 14, 137–143.

Rautenbach, I.L., Fenton, M.B. & Whiting, M.J. (1996). Bats in riverine forests and woodlands: a latitudinal transect in southern Africa. *Can. J. Zool.*, 74, 312–322.

Ray, J.C. (1998). Temporal variation of predation on rodents and shrews by small African forest carnivores. *J. Zool. London*, 244, 363–370.

Rovero, F. & De Luca, D.W. (2007). Checklist of mammals of the Udzungwa Mountains of Tanzania. *Mammalia*, 71, 47–55.

Schlitter, D.A., Robbins, L.W. & Buchanan, S.A. (1982). Bats of the Central African Republic (Mammalia: Chiroptera). *Ann. Carnegie Museum*, 51, 133–155.

Schoeman, M.C. & Jacobs, D.S. (2008). The relative influence of competition and prey defenses on the phenotypic structure of insectivorous bat ensembles in Southern Africa. *PLoS One*, 3(11), e3715.

Schoeman, M.C. & Waddington, K.J. (2011). Do deterministic processes influence the phenotypic patterns of animalivorous bat ensembles at urban rivers? *African Zool.*, 46, 288–301.

Simelane, F.N., Mahlaba, T.A.M., Shapiro, J.T., MacFadyen, D. & Monadjem, A. (2017). Habitat associations of small mammals in the foothills of the Drakensberg Mountains, South Africa. *Mammalia*, 82, 144–152.

Stanley, W. & Hutterer, R. (2007). Differences in abundance and species richness between shrews and rodents along an elevational gradient in the Udzungwa Mountains, Tanzania. *Acta Theriol. (Warsz).*, 52, 259–273.

Stanley, W.T. & Foley, C.A.H. (2008). A survey of the small mammals of Minziro Forest, Tanzania, with several additions to the known fauna of the country. *Mammalia*, 72, 116–122.

Stanley, W.T. & Goodman, S.M. (2011a). Small mammal inventories in the East and West Usambara Mountains, Tanzania. 3. Chiroptera. *Fieldiana Life Earth Sci.*, 4, 34–52.

Stanley, W.T. & Goodman, S.M. (2011b). Small mammal inventories in the East and West Usambara Mountains, Tanzania. 4. Rodentia. *Fieldiana Life Earth Sci.*, 4, 53–73.

Stanley, W.T., Goodman, S.M. & Hutterer, R. (2011). Small mammal inventories in the East and West

Usambara Mountains, Tanzania. 2. Families Soricidae (shrews) and Macroscelididae (elephant shrews). *Fieldiana Life Earth Sci.*, 4, 18–33.

Stanley, W.T., Gunn, J. & Kihaule, P.M. (2005a). Results of a preliminary small mammal survey of Malundwe Mountain, Mikumi National Park, Tanzania. *J. East African Nat. Hist.*, 94, 213–222.

Stanley, W.T., Nikundiwe, A.M., Mturi, F.A., Kihaule, P.M. & Moehlman, P.D. (2005b). Small mammals collected in the Udzungwa Mountains National Park, Tanzania. *J. East African Nat. Hist.*, 94, 203–212.

Stanley, W.T., Rogers, M.A., Kihaule, P.M. & Munissi, M.J. (2014). Elevational distribution and ecology of small mammals on Africa's highest mountain. *PLoS One*, 9(11), e109904.

Stanley, W.T., Rogers, M.A., Senzota, R.B.M., Mturi, F. a., Kihaule, P.M., Moehlman, P.D., *et al.* (2007). Surveys of small mammals in Tarangire National Park, Tanzania. *J. East African Nat. Hist.*, 96, 47–71.

Stuart, C.T. (1975). Preliminary notes on the mammals of the Namib Desert Park. *Madoqua*, 4, 4–25.

Symes, C.T., Wilson, J.W., Woodborne, S.M., Shaikh, Z.S. & Scantlebury, M. (2013). Resource partitioning of sympatric small mammals in an African forest-grassland vegetation mosaic. *Austral Ecol.*, 38, 721–729.

Tanshi, I., Ogbeibu, A.E. & Ates, P.J.J. (2019). Complementary bat (Mammalia: Chiroptera) techniques uncover two new country records for Nigeria. *J. Threat. Taxa*, 11, 14788–14801.

Taylor, P.J., Munyai, A., Gaigher, I. & Baxter, R. (2014). Afromontane small mammals do not follow the hump-shaped rule: altitudinal variation in the Soutpansberg Mountains, South Africa. *J. Trop. Ecol.*, 31, 37–48.

Taylor, P.J., Neef, G., Keith, M., Weier, S., Monadjem, A. & Parker, D.M. (2018). Tapping into technology and the biodiversity informatics revolution: updated terrestrial mammal list of Angola, with new records from the Okavango Basin. *Zookeys*, 779, 51–88.

Terefe, Y. & Samuel, F. (2015). Seasonal species composition and abundance of rodents in Yerer mountain forest area, central Ethiopia. *Am. J. Biosci.*, 3, 87–92.

Traore, K., Gautun, J.-C. & Diomande, M. (1980). Comparaison des peuplements de Rongeurs Muridés dans trois savanes de Côte d ' lvoire. *Ann. Univ. Abidjan*, Série E, 183–202.

Tuyisingize, D. (2013). Terrestrial small mammal community composition in the Volcanoes National Park, Rwanda. *Bonn Zool. Bull.*, 62, 177–185.

Varty, N. (1990). Ecology of the small mammals in the riverine forests of the Jubba Valley, Southern Somalia. *J. Trop. Ecol.*, 6, 179–189.

Webala, P.W., Carugati, C. & Fasola, M. (2010). Diversity in small mammals from eastern Lake Turkana, Kenya. *Trop. Zool.*, 23, 9–20.

Webala, P.W., Muriuki, G., Lala, F. & Bett, A. (2006). The small mammal community of Mukogodo Forest, Kenya. *Afr. J. Ecol.*, 44, 363–370.

Webala, P.W., Mwaura, J., Mware, J.M., Ndiritu, G.G. & Patterson, B.D. (2019). Effects of habitat fragmentation on the bats of Kakamega Forest, western Kenya. *J. Trop. Ecol.*, 1–10.

Webala, P.W., Oguge, N.O. & Bekele, A. (2004). Bat species diversity and distribution in three vegetation communities of Meru National Park, Kenya. *Afr. J. Ecol.*, 42, 171–179.

Weber, N., Wistuba, R., Astrin, J. & Decher, J. (2019). New records of bats and terrestrial small mammals from the Seli River in Sierra Leone before the construction of a hydroelectric dam. *Biodivers. Data J.*, 7, e34754.

Wechuli, D.B., Webala, P.W., Patterson, B.D. & Ochieng, R.S. (2017). Bat species diversity and distribution in a disturbed regime at the Lake Bogoria National Reserve, Kenya. *Afr. J. Ecol.*, 55, 465–476.

Wirminghaus, J.O. & Perrin, M.R. (1993). Seasonal changes in density, demography and body composition of small mammals in a southern temperate forest. *J. Zool. London*, 229, 303–318.

Withers, P.C. (1979). Ecology of a small mammal community on a rocky outcrop in the Namib desert. *Madoqua*, 3, 229–246.

Yarnell, R.W., Scott, D.M., Chimimba, C.T. & Metcalfe, D.J. (2007). Untangling the roles of fire, grazing and rainfall on small mammal communities in grassland ecosystems. *Oecologia*, 154,

387–402.

Ziegler, S., Niolaus, G. & Hutterer, R. (2002). High mammalian diversity in the newly established National Park of Upper Niger, Republic of Guinea. *Oryx*, 36, 73–80.