

Supplementary Information

Predicting bat distributions and diversity hotspots in southern Africa.

Cooper-Bohannon R., Rebelo H., Jones G., Cotterill F. (Woody), Monadjem A., Schoeman M.C., Taylor P., Park K.

Table S1: Seventy-six eco-geographical variables (EGVs) trialled to build Maxent model for focal bat species in southern Africa. The final EGVs selected are highlighted in grey.

Table S1 (continued)

Variable categories	Description	Source
SPOT-Water	SWB – July (1998–2012)	"
	SWB – August (1998–2012)	"
	SWB – September (1998–2012)	"
	SWB – October (1998–2012)	"
	SWB – November (1998–2012)	"
	SWB – December (1998–2012)	Geoland 2 (www.geoland2.eu)
	GWWR + SWB – January (1998–2012)	"
	GWWR + SWB – February (1998–2012)	"
	GWWR + SWB – March (1998–2012)	"
	GWWR + SWB – April (1998–2012)	"
	GWWR + SWB – May (1998–2012)	"
	GWWR + SWB – June (1998–2012)	"
SPOT-Vegetation (12)	GWWR + SWB – July (1998–2012)	"
	GWWR + SWB – August (1998–2012)	"
	GWWR + SWB – September (1998–2012)	"
	GWWR + SWB – October (1998–2012)	"
	GWWR + SWB – November (1998–2012)	"
	GWWR + SWB – December (1998–2012)	"
	NDVI (normalised difference vegetation index) – January (1998–2012)	SPOT Programme (www.vgt.vito.be)
	NDVI – February (1998–2012)	"
	NDVI – March (1998–2012)	"
	NDVI – April (1998–2012)	"
	NDVI – May (1998–2012)	"
	NDVI – June (1998–2012)	"
Landcover	NDVI – July (1998–2012)	"
	NDVI – August (1998–2012)	"
Biomes	NDVI – September (1998–2012)	"
	NDVI – October (1998–2012)	"
Landcover	NDVI – November (1998–2012)	"
	NDVI – December (1998–2012)	"
Landcover	landcover	Global Land Cover (http://glcf.umd.edu/)
Biomes	biotic zones created from WWF ecoregions map	WWF (https://worldwildlife.org/pages/conservation-science-data-and-tools/)

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Table S2: Species information and modelling prediction results, including: species considered to be either endemic (**) or near-endemic (*) (majority of range within study area but few records beyond) are highlighted and species cave-roosting preferences are marked as cave-dependent (▲▲), predominantly cave-dwelling (▲) or caves as well as other roosts (△) (e.g. trees, buildings). Models were run after removing spatial autocorrelation data. Results include occupied area (as a proportion of the entire study area) per species, percentage of cover per species within each biotic region, and three ecogeographical variables (EGVs) considered to be most influential in the models: alt – altitude, BIO2 – mean diurnal range, BIO4 – °C seasonality, BIO10 – mean °C of warmest quarter, BIO11 – mean °C of coldest quarter, bzo – biotic zones, dtk – distance to karst, gwbm – GWWR SWB – satellite imagery for small water bodies (May), gwbj – GWWR SWB (July), ilw - intermittent linear water, iwb - intermittent water bodies, ndva – NDVI – normalised difference vegetation index (April), plw - permanent linear water, pwb - permanent water bodies, pwq - precipitation of wettest quarter, and slo - slope. Water variables are highlighted in bold. mdr –, tcq –, twq –, and tse. IUCN status highlighted in bold indicates a species with a threatened or data deficient status.

Species	IUCN status 2008 (2004)	No. of data points initial (final)	AUC training (test) diff	Predicted area of occupancy				Species distributions overlap with biotic zones (%)								Potentially influential EGVs		
				Sensitivity (%)	km ²	%	Dominant biotic zones (% cover)	SW arid	SW Cape	High veld	Middle savanna	Dry savanna	Middle swampland	Moist swampland	Coastal forest	Vari 1	Vari 2	Vari 3
Pteropodidae (fruit bats)																		
<i>Eidolon helvum</i>	NT (LC)	67 (59)	0.879 (0.677) 0.202	78	1091925	17	1. Savanna (33%) 2. SW arid (28%) 3. High veld (17%) 4. Afromontane (13%)	21	0	95	44	2	17	42	bzo	pwb	gwb _j	
<i>Epomophorus angolensis**</i>	NT (NT)	19 (19)	0.986 (0.893) 0.093	100	339737	5	1. Savanna (62%) 2. SW arid (26%)	5	0	0	6	4	7	4	bzo	BIO4	iwb	
<i>Epomophorus crypturus**</i>	LC (LC)	112 (78)	0.915 (0.826) 0.089	91	1213597	19	1. Savanna (88%)	0	0	2	13	36	17	38	pwb	plw	pwq	
<i>Epomophorus labiatus</i>	LC (LC)	23 (23)	0.987 (0.927) 0.060	96	436697	7	1. Savanna (90%)	0	0	0	0	4	17	4	pwb	ilw	BIO2	
<i>Epomophorus wahlbergi</i>	LC (LC)	159 (66)	0.901 (0.730) 0.171	86	1327859	21	1. Savanna (63%) 2. Afromontane (18%) 3. Coastal mosaic (14%)	1	30	0	73	12	33	77	bzo	pwb	BIO4	
<i>Epomops dobsonii**</i>	LC (LC)	28 (28)	0.959 (0.883) 0.076	93	503585	8	1. Savanna (94%)	0	0	0	9	0	26	0	bzo	ilw	BIO11	
<i>Rousettus aegyptiacus▲▲</i>	LC (LC)	66 (38)	0.943 (0.765) 0.178	83	692896	11	1. Savanna (60%) 2. Afromontane (22%)	3	32	0	47	16	5	9	BIO2	slo	plw	

Table S2 (continued)

Species	IUCN status 2008 (2004)	No. of data points initial (final)	AUC training (test) diff	Predicted area of occupancy				Species distributions overlap with biotic zones (%)								Potentially influential EGVs		
				Sensitivity (%)	km ²	%	Dominant biotic zones (% cover)	SW arid	SW Cape	High veld	Montane	Dry savanna	Moist savanna	Coastal forest	Var 1	Var 2	Var 3	
Hipposideridae (trident / leaf-nosed bats)																		
<i>Cloeotis percivali*</i> ▲▲	LC (VU)	33 (29)	0.952 (0.878) 0.074	86	955464	15	1. Savanna (79%) 2. Afromontane (12%)	0	0	23	36	25	11	16	pwb	gwb _j	iwb	
<i>Hipposideros caffer</i> ▲	LC (LC)	233 (131)	0.904 (0.739) 0.165	83	1581888	25	1. Savanna (75%) 2. SW arid (10%)	10	0	0	42	36	22	38	BIO4	pwb	slo	
<i>Hipposideros ruber</i> △	LC (LC)	27 (20)	0.971 (0.758) 0.213	95	625018	10	1. Savanna (87%)	0	0	0	7	0	29	13	bzo	slo	pwb	
<i>Hipposideros vittatus</i> *▲▲	NT (n/a)	80 (69)	0.909 (0.812) 0.097	79	1043916	17	1. Savanna (81%)	7	0	0	18	29	12	17	iwb	pwb	pwq	
Rhinolophidae (horseshoe bats)																		
<i>Rhinolophus blasii</i> *▲▲	LC (NT)	45 (42)	0.973 (0.925) 0.048	95	602154	10	1. Savanna (70%) 2. Afromontane (18%)	0	0	15	34	16	4	14	gwb _m	slo	dtk	
<i>Rhinolophus capensis</i> **▲▲	LC (NT)	25 (25)	0.991 (0.955) 0.036	95	277925	4	1. SW arid (38%) 2. SW Cape (34%) 3. Afromontane (24%)	2	90	0	21	0	0	0	iwb	bzo	alt	
<i>Rhinolophus clivosus</i> *▲▲	LC (LC)	188 (90)	0.912 (0.850) 0.062	85	1120944	18	1. Savanna (41%) 2. Afromontane (24%) 3. SW arid (13%) 4. High veld (11%)	9	71	62	85	16	7	21	slo	bzo	BIO10	
<i>Rhinolophus darlingi</i> **▲	LC (LC)	140 (98)	0.903 (0.837) 0.066	88	1217047	19	1. Savanna (64%) 2. SW arid (26%)	22	0	6	29	35	1	8	iwb	bzo	gwb _m	
<i>Rhinolophus denti</i> **▲	LC (DD)	19 (19)	0.966 (0.827) 0.139	95	781091	12	1. SW arid (55%) 2. Savanna (41%)	37	0	12	1	15	0	0	ilw	dtk	bzo	
<i>Rhinolophus fumigatus</i> *▲▲	LC (LC)	85 (74)	0.929 (0.865) 0.064	93	1246343	20	1. Savanna (80%) 2. SW arid (11%)	10	0	0	17	29	20	15	BIO4	BIO11	alt	

Table S2 (continued)

Species	IUCN status 2008 (2004)	No. of data points initial (final)	AUC training (test) diff	Predicted area of occupancy				Species distributions overlap with biotic zones (%)								Potentially influential EGVs		
				Sensitivity (%)	km ²	%	Dominant biotic zones (% cover)	SW arid	SW Cape	High veld	Montane	Dry savanna	Moist savanna	Coastal forest	Var 1	Var 2	Var 3	
<i>Rhinolophus hildebrandtii</i> ▲	LC (LC)	153 (110)	0.945 (0.877) 0.068	90	946716	15	1. Savanna (92%)	0	0	0	13	29	14	8	plw	BIO2	iwb	
<i>Rhinolophus landeri</i> ▲	LC (LC)	50 (36)	0.942 (0.809) 0.133	89	1008924	16	1. Savanna (89%)	0	0	0	21	23	22	17	pwb	gwb _j	BIO10	
<i>Rhinolophus simulator</i> ▲▲	LC (LC)	91 (49)	0.950 (0.877) 0.073	85	855537	14	1. Savanna (71%) 2. Afromontane (18%)	1	0	14	48	25	4	19	gwb _j	dtk	gwb _m	
<i>Rhinolophus swinnyi</i> *▲▲	LC (NT)	48 (31)	0.938 (0.792) 0.146	87	1054284	17	1. Savanna (77%) 2. Afromontane (18%)	0	0	0	60	23	17	20	ilw	plw	dtk	
Emballonuridae (sheath-tailed bats)																		
<i>Taphozous mauritianus</i>	LC (LC)	97 (82)	0.901 (0.824) 0.077	87	1454841	23	1. Savanna (75%) 2. Afromontane (10%)	4	25	27	46	39	14	23	pwb	ndv _a	BIO4	
Nycteridae (slit-faced bats)																		
<i>Nycterus hispida</i> △	LC (LC)	40 (34)	0.966 (0.867) 0.099	91	710458	7	1. Savanna (84%)	0	0	0	15	7	22	13	pwb	ilw	pwq	
<i>Nycterus macrotis</i> △	LC (LC)	44 (41)	0.921 (0.725) 0.196	80	1466326	23	1. Savanna (81%)	0	0	0	23	29	40	13	pwq	gwb _j	plw	
<i>Nycterus thebaica</i> ▲	LC (LC)	349 (235)	0.864 (0.730) 0.134	86	1704632	27	1. Savanna (63%) 2. SW arid (18%) 3. Afromontane (10%)	20	60	0	53	40	12	32	pwb	BIO4	gwb _m	
<i>Nycterus woodi</i> **▲	LC (NT)	25 (25)	0.977 (0.938) 0.039	82	308190	5	1. Savanna (99%)	0	0	0	0	11	4	0	pwb	ilw	bzo	
Molossidae (free-tailed bats)																		
<i>Tadarida aegyptiaca</i> ▲	LC (LC)	176 (119)	0.910 (0.739) 0.171	87	1214127	19	1. Savanna (32%) 2. SW arid (29%) 3. Afromontane (17%) 4. High veld (14%)	23	61	90	65	17	1	11	ilw	BIO117 slo		

Table S2 (continued)

Species	IUCN status 2008 (2004)	No. of data points initial (final)	AUC training (test) diff	Predicted area of occupancy				Species distributions overlap with biotic zones (%)										Potentially influential EGVs		
				Sensitivity (%)	km ²	%	Dominant biotic zones (% cover)	SW arid	SW Cape	High elev	Montane	Dry savanna	Moist savanna	Coastal forest	Var 1	Var 2	Var 3			
<i>Chaerephon ansorgei</i>	LC (LC)	31 (31)	0.966 (0.841) 0.125	94	673792	11	1. Savanna (92%)	0	0	0	0	0	0	5	ndv _a	bzo	pwb			
<i>Mops condylurus</i> ▲	LC (LC)	106 (72)	0.941 (0.877) 0.064	84	1057626	17	1. Savanna (79%) 2. Coastal mosaic (11%)	0	0	0	28	25	17	50	pwb	alt	ilw			
<i>Tadarida fulminans</i>	LC (LC)	18 (18)	0.966 (0.861) 0.105	94	541523	9	1. Savanna (90%)	0	0	0	14	20	3	0	ilw	plw	bzo			
<i>Mops midas</i>	LC (LC)	36 (32)	0.974 (0.882) 0.092	91	441324	7	1. Savanna (94%)	0	0	0	9	19	0	0	iwb	bzo	BIO10			
<i>Chaerephon nigeriae</i> ▲	LC (LC)	41 (40)	0.941 (0.821) 0.120	90	1133308	18	1. Savanna (98%)	1	0	0	0	30	26	0	BIO11	bzo	alt			
<i>Mops niveiventer</i>	LC (LC)	19 (19)	0.976 (0.864) 0.112	100	722774	12	1. Savanna (98%)	0	0	0	5	2	37	0	bzo	ilw	pwq			
<i>Chaerephon pumilus</i>	LC (LC)	186 (59)	0.935 (0.828) 0.107	86	809867	13	1. Savanna (78%) 2. Coastal mosaic (10%)	0	0	0	8	17	15	54	pwb	alt	bzo			
<i>Sauromys petrophilus</i> **	LC (LC)	63 (31)	0.951 (0.835) 0.116	81	915652	15	1. Savanna (54%) 2. SW arid (36%)	16	65	8	4	23	0	0	ilw	bzo	slo			
Miniopteridae (long-fingered bats)																				
<i>Miniopterus fraterculus</i> *▲▲	LC (LC)	23 (23)	0.993 (0.972) 0.021	96	297363	5	1. Afromontane (61%) 2. Savanna (15%) 3. Coastal mosaic (13%)	0	7	10	57	2	0	17	bzo	slo	gwb _m			
<i>Miniopterus natalensis</i> ▲▲	LC (NT)	224 (149)	0.901 (0.770) 0.131	84	1227870	20	1. Savanna (54%) 2. Afromontane (16%) 3. SW arid (14%)	12	59	32	62	24	8	30	dtk	pwb	plw			

Table S2 (continued)

Species	IUCN status 2008 (2004)	No. of data points initial (final)	AUC training (test) diff	Predicted area of occupancy				Species distributions overlap with biotic zones (%)										Potentially influential EGVs		
				Sensitivity (%)	km ²	%	Dominant biotic zones (% cover)	SW arid	SW Cape	High veld	Montane	Dry savanna	Moist savanna	Coastal forest	Var 1	Var 2	Var 3			
Vespertilionidae (plain-faced bats)																				
<i>Cistugo lesueuri</i> **	LC (VU)	16 (16)	0.979 (0.946) 0.033	88	673792	11	1. Afromontane (43%) 2. High veld (29%) 3. SW Cape (13%) 4. SW arid (11%)	0	37	45	13	26	4	5	BIO11	BIO10	bzo			
<i>Eptesicus hottentotus</i> *△	LC (LC)	46 (39)	0.914 (0.749) 0.165	77	813384	13	1. Savanna (33%) 2. SW arid (28%) 3. Afromontane (20%) 4. SW Cape (10%)	12	80	23	52	12	1	9	bzo	slo	plw			
<i>Glauconycteris variegata</i>	LC (LC)	38 (36)	0.950 (0.839) 0.111	94	976983	16	1. Savanna (78%) 2. Coastal mosaic (12%)	0	0	0	22	21	17	52	plw	bzo	BIO11			
<i>Kerivoula argentata</i>	LC (LC)	30 (29)	0.941 (0.739) 0.202	85	752853	12	1. Savanna (79%) 2. Coastal mosaic (14%)	0	0	0	15	15	15	46	plw	BIO4	BIO2			
<i>Kerivoula lanosa</i>	LC (LC)	27 (27)	0.954 (0.865) 0.089	78	636522	10	1. Savanna (55%) 2. Afromontane (19%) 3. Coastal mosaic (15%)	1	42	0	38	11	7	42	pwb	bzo	plw			
<i>Laephotos botswanae</i> **	LC (LC)	25 (25)	0.944 (0.807) 0.137	88	988632	16	1. Savanna (83%) 2. Afromontane (16%)	0	0	0	50	24	18	0	bzo	plw	BIO11			
<i>Myotis bocagii</i>	LC (LC)	35 (29)	0.943 (0.809) 0.134	93	594469	10	1. Savanna (82%)	0	0	0	12	11	13	20	plw	ndv _a	slo			
<i>Myotis tricolor</i> ▲▲	LC (LC)	58 (45)	0.931 (0.834) 0.097	91	820776	13	1. Savanna (37%) 2. Afromontane (28%) 3. High veld (14%)	2	65	61	71	12	3	24	dtk	bzo	slo			
<i>Myotis welwitschii</i>	LC (LC)	33 (30)	0.929 (0.790) 0.139	83	920261	15	1. Savanna (70%) 2. Afromontane (20%)	0	0	31	58	17	16	6	gwb _m	plw	slo			
<i>Nycticeinops schlieffeni</i>	LC (LC)	145 (79)	0.914 (0.849) 0.065	87	1003159	16	1. Savanna (86%)	3	0	0	3	35	6	26	bzo	pwb	BIO10			

Table S2 (continued)

Species	IUCN status 2008 (2004)	No. of data points initial (final)	AUC training (test) diff	Predicted area of occupancy				Species distributions overlap with biotic zones (%)										Potentially influential EGVs		
				Sensitivity (%)	km ²	%	Dominant biotic zones (% cover)	SW arid	SW Cape	High land	Montane	Dry savanna	Moist savanna	Coastal forest	Var 1	Var 2	Var 3			
<i>Hypsugo anchietae</i> **	LC (LC)	45 (39)	0.946 (0.856) 0.090	97	987832	16	1. Savanna (85%) 2. Coastal mosaic (10%)	0	0	0	16	26	16	42	pwb	bzo	BIO11			
<i>Neoromicia capensis</i>	LC (LC)	376 (261)	0.871 (0.752) 0.119	81	1719255	27	1. Savanna (47%) 2. SW arid (20%) 3. Afromontane (15%)	22	85	100	79	36	2	16	bzo	BIO11	ilw			
<i>Pipistrellus hesperidus</i>	LC (n/a)	62 (50)	0.948 (0.852) 0.096	85	820815	13	1. Savanna (62%) 2. Afromontane (22%) 3. Coastal mosaic (12%)	1	0	0	57	16	9	41	bzo	pwb	plw			
<i>Neoromicia nana</i>	LC (LC)	199 (111)	0.915 (0.751) 0.164	87	1165508	19	1. Savanna (83%)	1	0	0	29	22	27	32	BIO4	pwq	pwb			
<i>Pipistrellus rueppelli</i>	LC (LC)	38 (37)	0.974 (0.895) 0.079	89	477914	8	1. Savanna (82%) 2. Afromontane (11%)	1	0	0	17	14	6	3	pwb	plw	gwbj			
<i>Pipistrellus rusticus</i>	LC (LC)	49 (43)	0.955 (0.861) 0.094	91	842481	13	1. Savanna (94%)	0	0	0	16	32	2	0	iwb	bzo	pwb			
<i>Neoromicia zuluensis</i> **	LC (LC)	88 (64)	0.905 (0.799) 0.106	77	1198714	19	1. Savanna (81%) 2. SW arid (10%)	7	0	0	21	37	9	18	iwb	BIO4	bzo			
<i>Scotoecus hirundo</i>	LC (DD)	21 (21)	0.970 (0.875) 0.095	95	555102	9	1. Savanna (84%)	0	0	0	12	12	11	16	BIO11	pwq	ilw			
<i>Scotophilus dinganii</i> **	LC (LC)	236 (127)	0.914 (0.773) 0.141	85	1251825	20	1. Savanna (80%)	4	0	0	37	40	8	34	pwb	gwb _m	bzo			
<i>Scotophilus leucogaster</i>	LC (LC)	42 (42)	0.950 (0.888) 0.062	83	426596	7	1. Savanna (89%) 2. SW arid (10%)	2	0	0	1	17	0	0	iwb	bzo	gwb _m			
<i>Scotophilus viridis</i>	LC (LC)	63 (53)	0.955 (0.895) 0.060	98	895732	14	1. Savanna (77%) 2. Coastal mosaic (13%)	0	0	7	19	30	1	49	bzo	ilw	alt			

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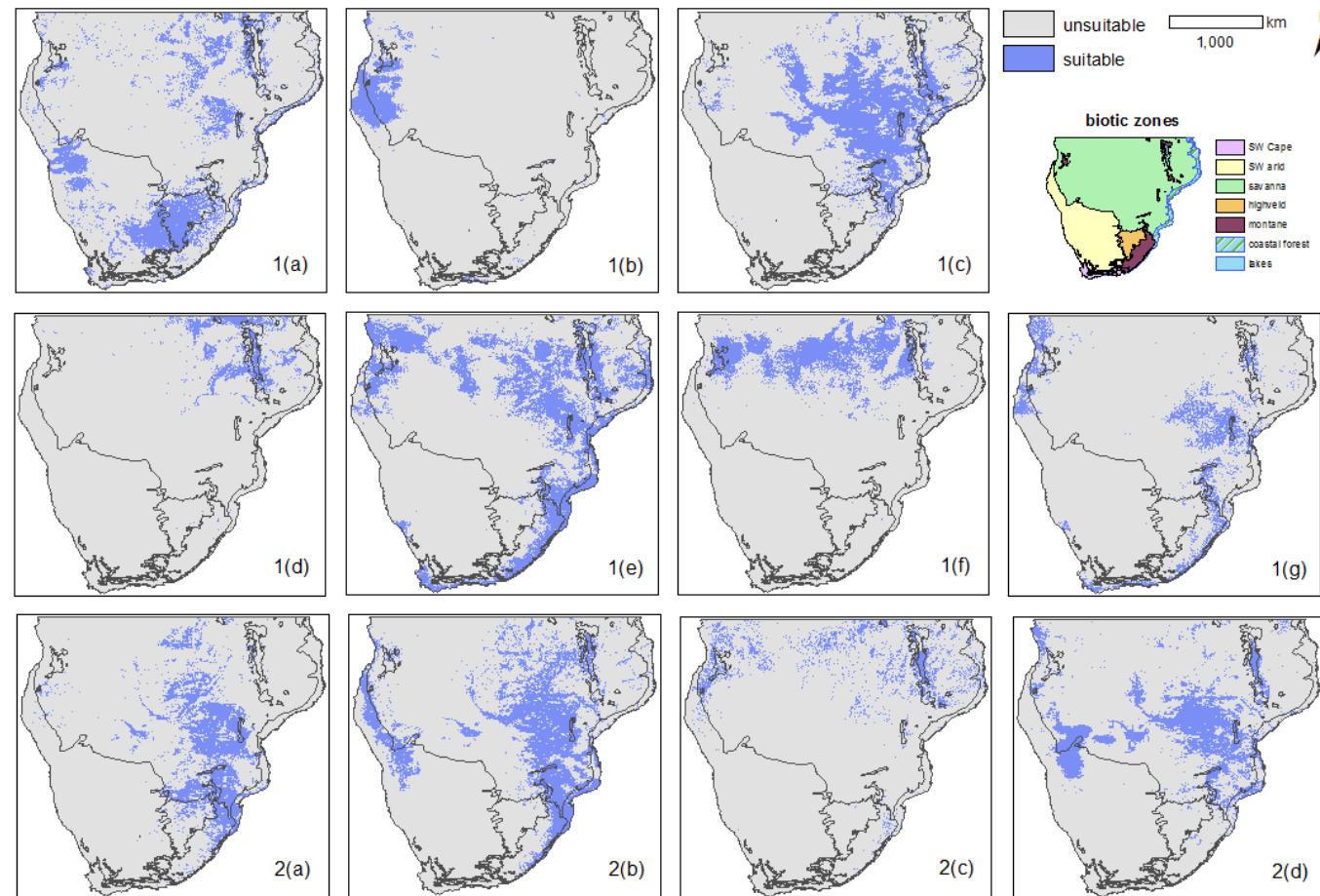


Figure S3: Species distribution maps. PTEROPODIDAE - 1(a) *Eidolon helvum*, (b) *Epomophorus angolensis*, (c) *E. cypturus*, (d) *E. labiatus*, (e) *E. wahlbergi*, (f) *Epomops dobsonii*, (g) *Rousettus aegyptiacus*. HIPPOSIDERIDAE - 2(a) *Cloeotis percivali*, (b) *Hipposideros caffer*, (c) *H. ruber*, and (d) *H. vittatus*.

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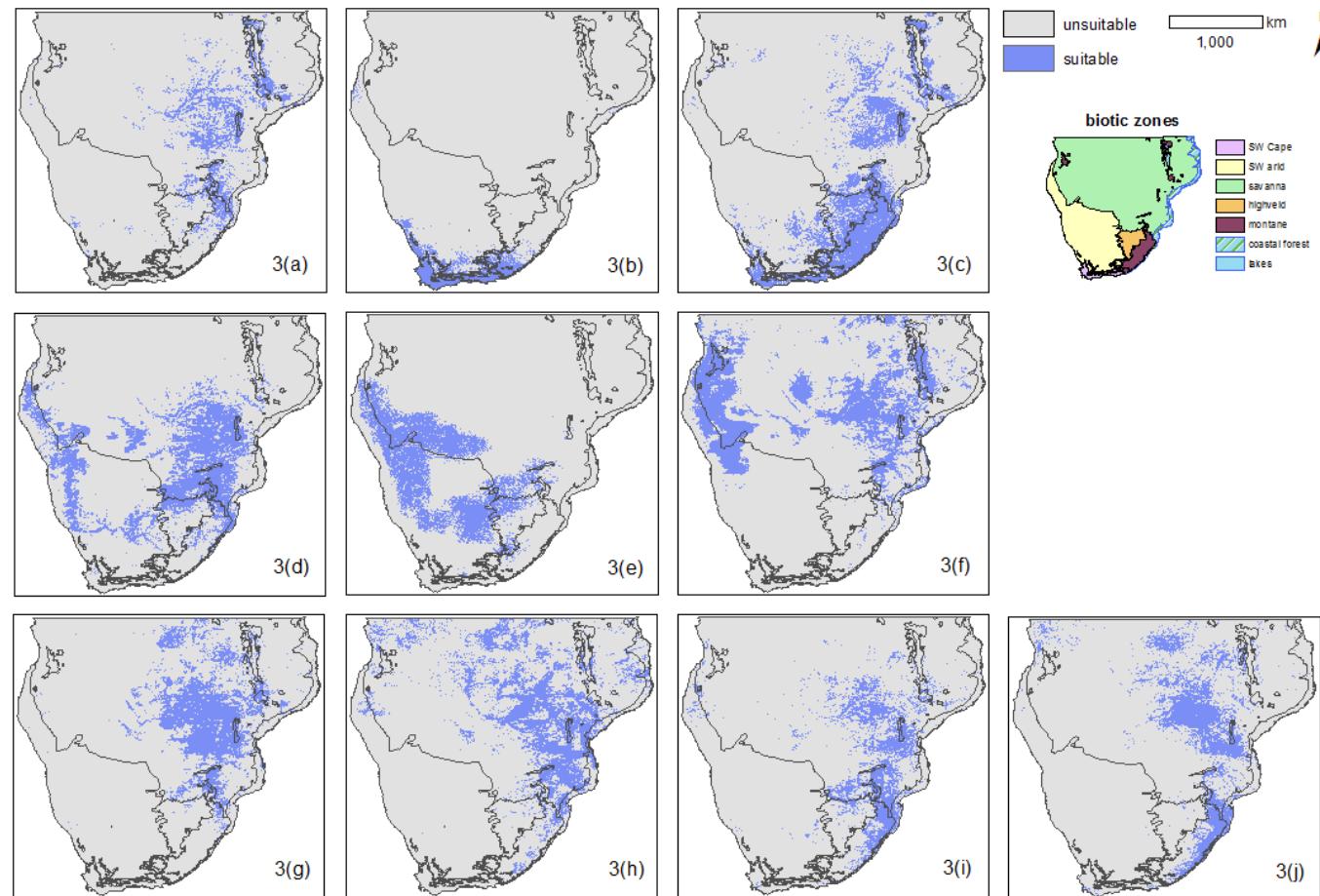


Figure S4: Species distribution maps. RHINOLOPHIDAE - 3(a) *Rhinolophus blasii*, (b) *R. capensis*, (c) *R. clivosus*, (d) *R. darlingi*, (e) *R. denti*, (f) *R. fumigatus*, (g) *R. hildebrandtii*, (h) *R. landeri*, (i) *R. simulator*, and (j) *R. swinnyi*.

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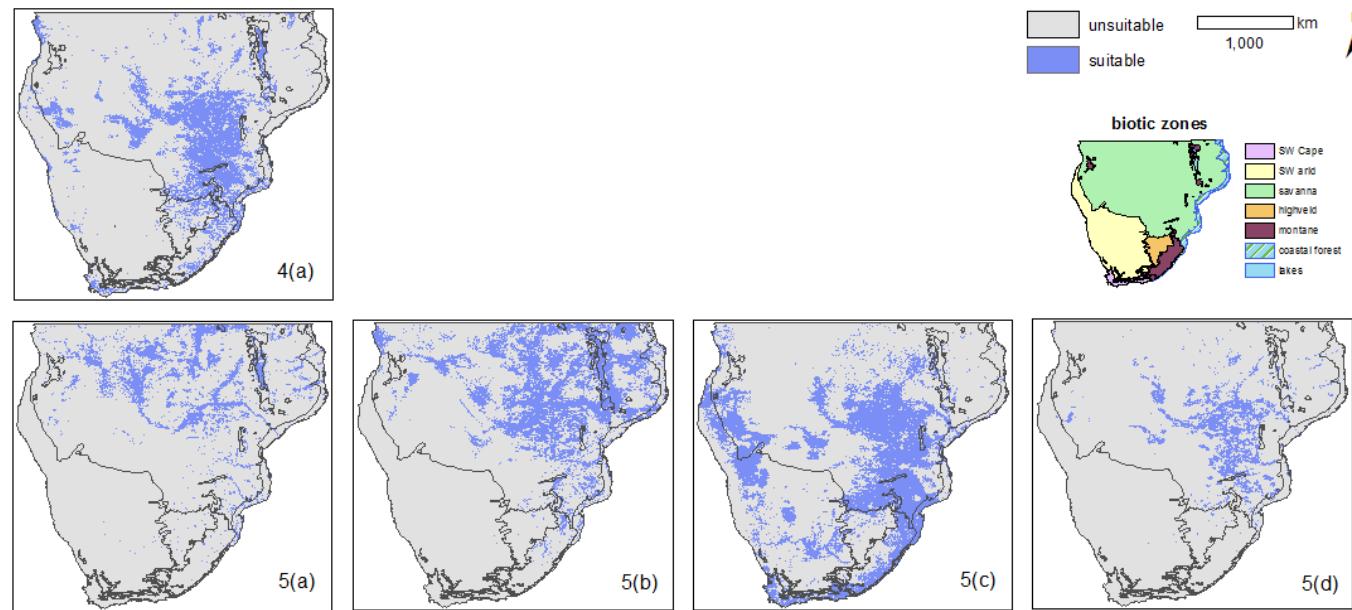


Figure S5: Species distribution maps. EMBALLOMURIDAE - 4(a) *Taphozous mauritianus*. NYCTERIDAE - 5(a) *Nycteris hispida*, (b) *N. macrotis*, (c) *N. thebaica*, and (d) *N. woodi*.

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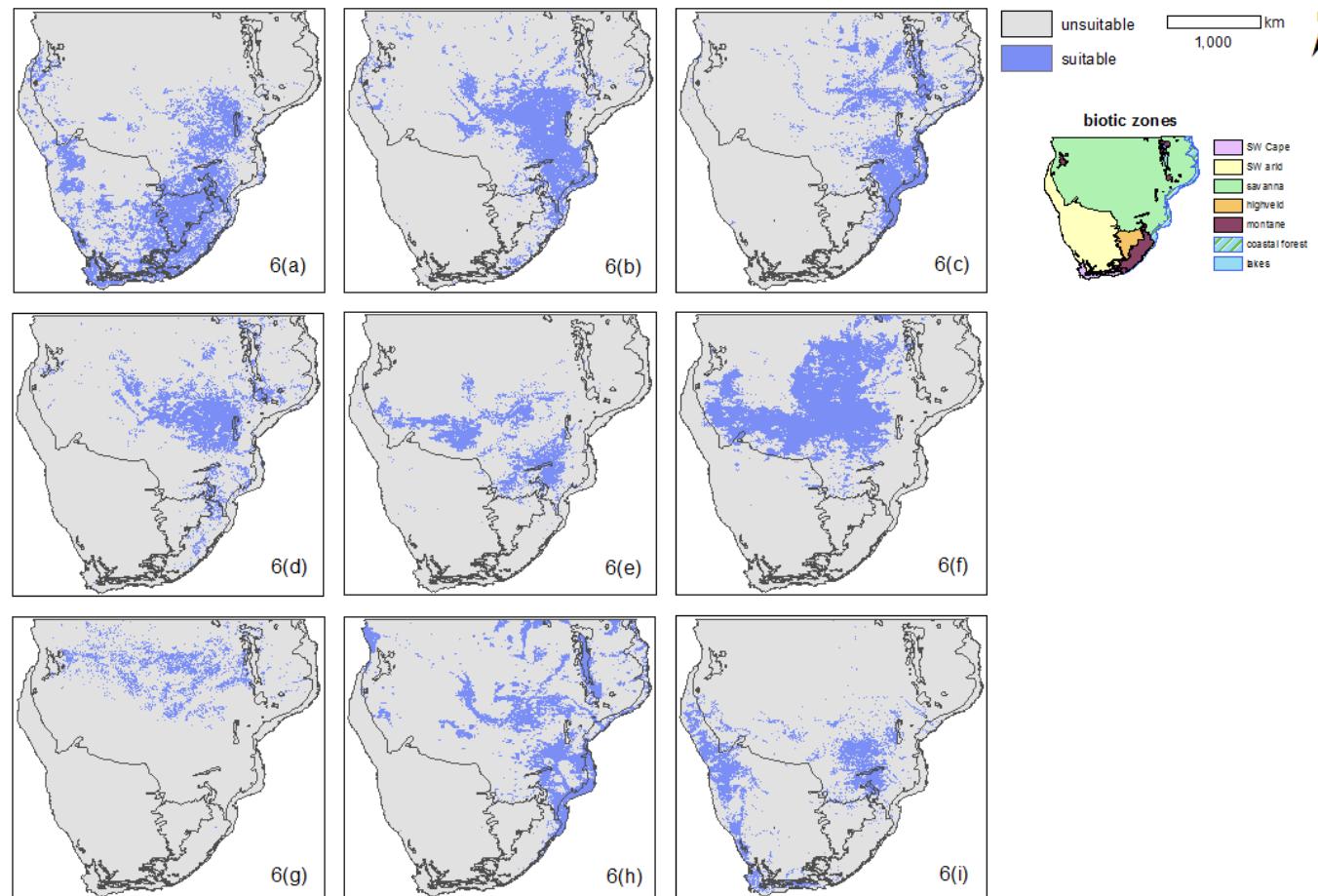


Figure S6: Species distribution maps. MOLOSSIDAE - 6(a) *Tadarida aegyptiaca*, (b) *C. ansorgei*, (c) *Mops condylurus*, (d) *T. fulminans*, (e) *M. midas*, (f) *M. nigeriae*, (g) *M. niveiventer*, (h) *C. pumilus*, and (i) *Sauromys petrophilus*.

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Cooper-Bohannon R., Rebelo H., Jones G., Cotterill F. (Woody), Monadjem A., Schoeman M.C., Taylor P., Park K.

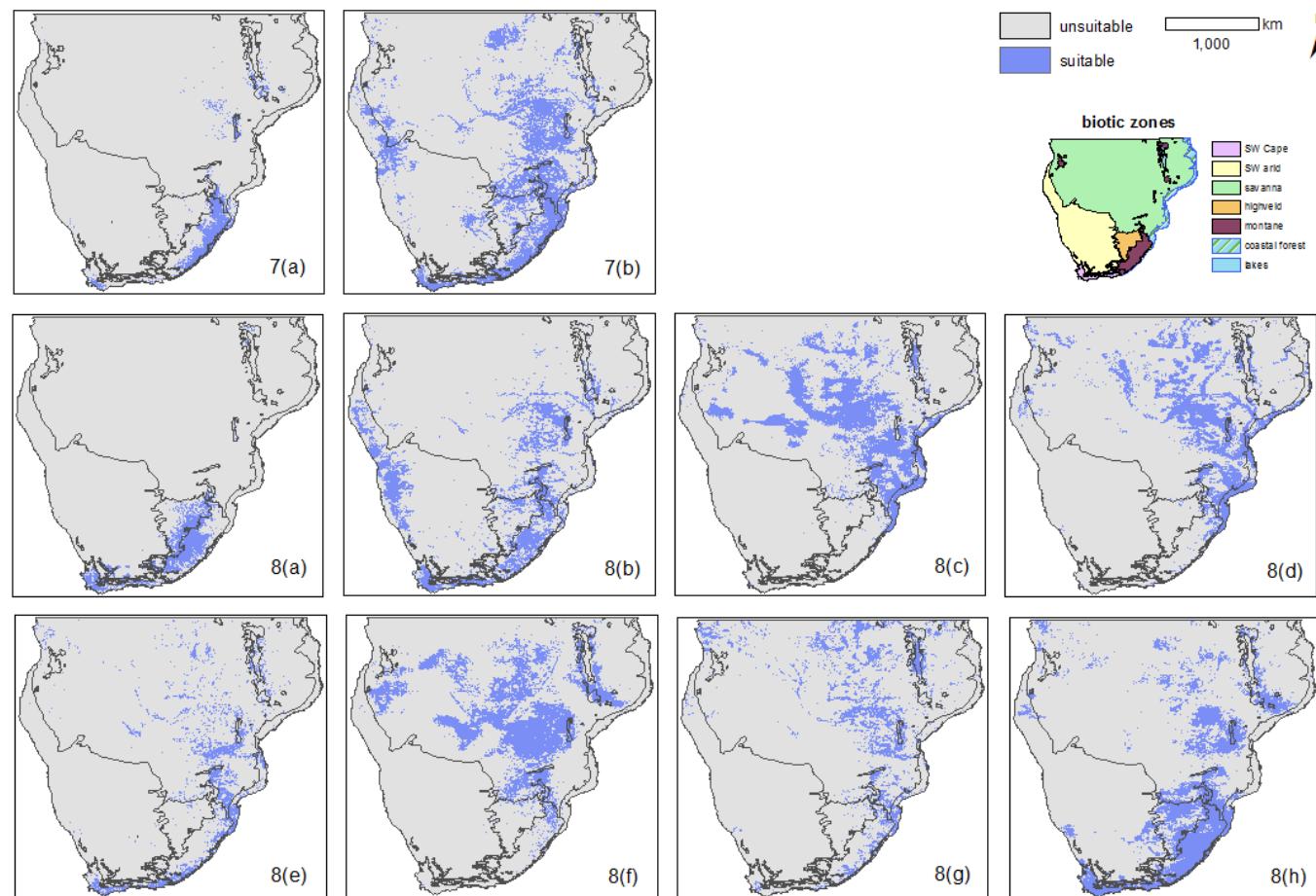


Figure S7: Species distribution maps. MINIOPTERIDAE - 7(a) *Miniopterus fraterculus* and (b) *M. natalensis*. VESPERTILIONIDAE - 8(a), *Cistugus lesueuri*, (b), *Eptesicus hottentotus*, (c) *Glauconycteris variegatus*, (d) *Kerivoula argentata*, (e) *K. lanosa*, (f) *Laephotis botswanae*, (g) *Myotis bocagii* and (h) *M. tricolor*.

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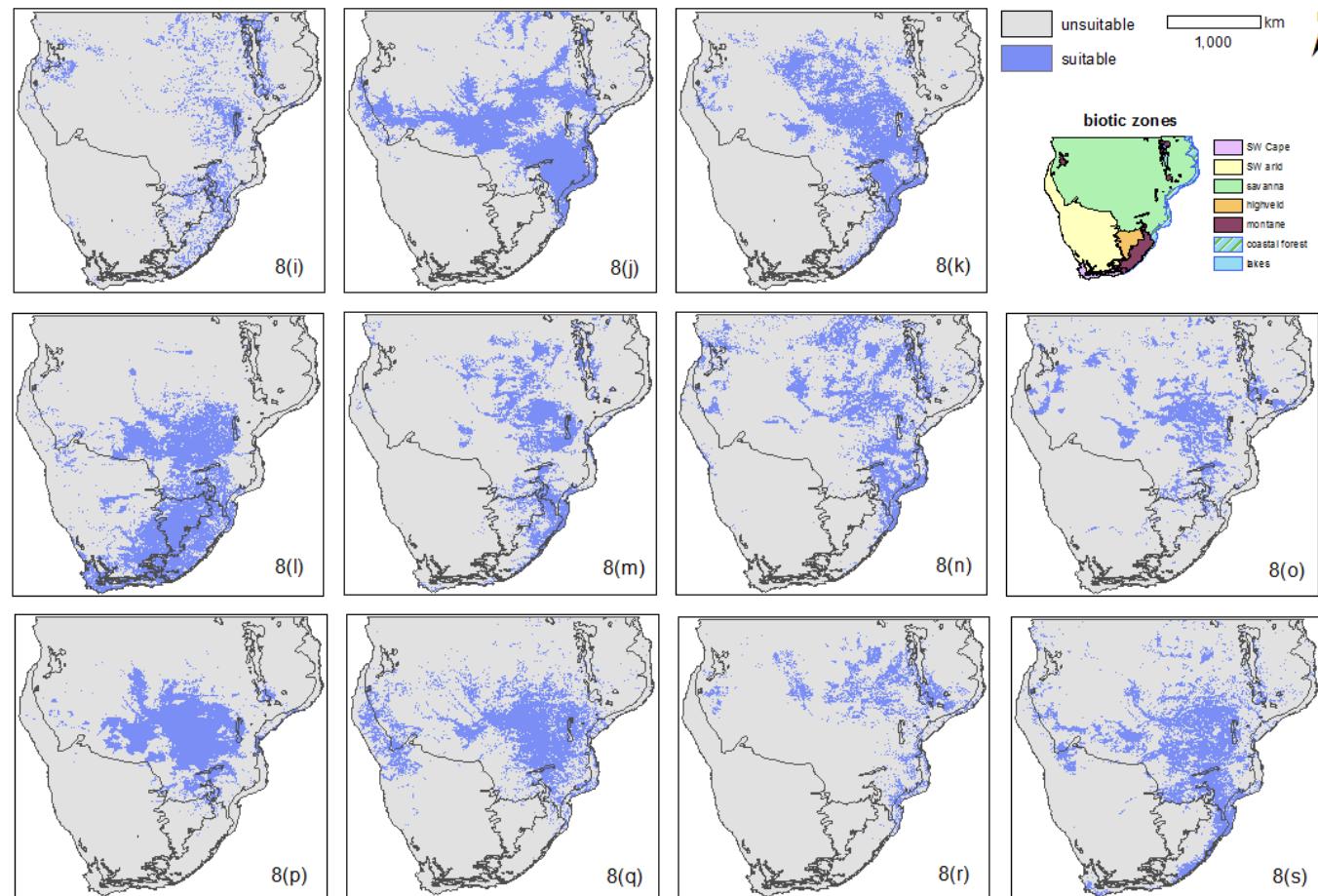


Figure S8: Species distribution maps. VESPERTILIONIDAE (cont.) - 8(i) *Myotis welwitschii*, (j) *Nycticeinops schlieffeni*, (k) *Hypsugo anchietae*, (l) *Neoromicia capensis*, (m) *Pipistrellus hesperidus*, (n) *N. nana*, (o) *P. rueppelli*, (p) *P. rusticus*, (q) *N. zuluensis*, (r) *Scotoecus hirundo* and (s) *Scotophilus dinganii*.

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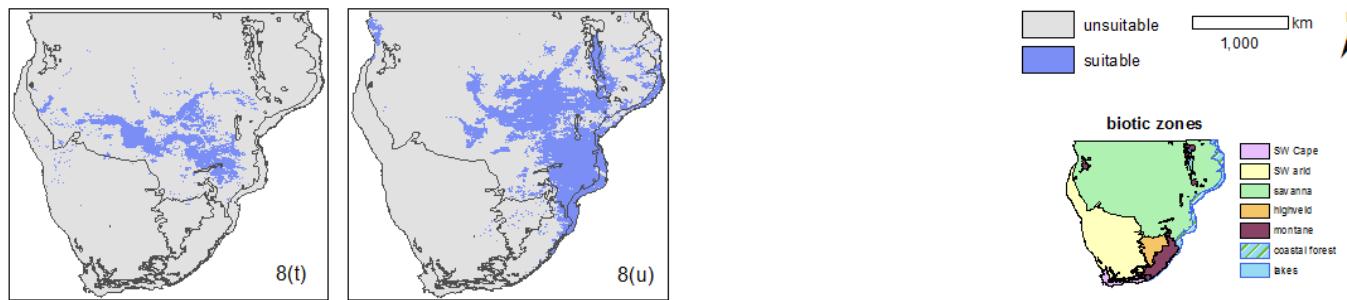


Figure S9: Species distribution maps. VESPERTILIONIDAE (cont.) - 8(t) *Scotophilus leucogaster* and (u) *S. viridis*.