Electronic Supplementary Material

Table S1. Ebola outbreaks included in analysis. Latitude and longitude are rounded to the nearest thousandth of a degree. "Virus" indicates the species of *Ebolavirus*.

Virus	Year	Country	Village	Latitude	Longitude	Source
Taï Forest virus (TAFV)	1994	Cote d'Ivoire	Tai National Park	5.864	-7.318	Mylne et al., 2014
Ebola virus (EBOV)	1994	Gabon	Mekouka and Andock mining camps	1.442	12.929	Mylne et al., 2014
Ebola virus (EBOV)	1995	Democratic Republic of Congo	Mwembe (15km from Kikwit)	-5.033	18.817	Mylne et al., 2014
Ebola virus (EBOV)	1996	Gabon	Mvoung	0.351	12.163	Mylne et al., 2014
Ebola virus (EBOV)	1996	Gabon	Mayibout	1.117	13.1	Mylne et al., 2014
Sudan virus (SUDV)	2000	Uganda	Rwot-Obilo	2.95	32.2	Mylne et al., 2014
Ebola virus (EBOV)	2001	Congo	Entsiami, Abolo, Ambomi	0.091	14.218	Mylne et al., 2014
Ebola virus (EBOV)	2001	Gabon	Etakangaye	1.072	14.107	Mylne et al., 2014
Ebola virus (EBOV)	2003	Congo	Forest near Mbandza village (Mbomo district, Cuvette Ouest)	0.56	14.657	Mylne et al., 2014
Sudan virus (SUDV)	2004	South Sudan	Forest 40km south of Yambio town	4.431	28.705	Mylne et al., 2014
Ebola virus (EBOV)	2005	Congo	Odzala National Park (Etoumbi)	1.125	14.916	Mylne et al., 2014
Ebola virus (EBOV)	2007	Democratic Republic of Congo	Bamoukamba	-5.26	21.41	Mylne et al., 2014
Bundibugyo virus (BDBV)	2007	Uganda	Kabango village (Kasitu subcounty, Bundibugyo district)	0.771	30.130	Mylne et al., 2014
Ebola virus (EBOV)	2008	Uganda	Kalamba village	-5.235	21.410	Mylne et al., 2014
Sudan virus (SUDV)	2012	Uganda	Nyanswiga village, Nyamarunda, Buyanja (Kibaale District)	0.866	30.927	Mylne et al., 2014
Sudan virus (SUDV)	2012	Uganda	Kakute village, Luwero district	0.601	32.501	Mylne et al., 2014
Bundibugyo virus (BDVB)	2012	Congo	Isiro municipality	2.766	27.609	Mylne et al., 2014
Ebola virus (EBOV)	2014	Democratic Republic of Congo	Ikanamongo village	-0.716	20.596	World Health Organization, 2014; Centers for Disease Control, 2017
Ebola virus (EBOV)	2014	Guinea	Gueckedo	8.567	10.133	Baize et al., 2014
Ebola virus (EBOV)	2017	Democratic Republic of Congo	Nambwa health district	3.283	23.55	World Health Organization, 2017
Ebola virus (EBOV)	2018	Democratic Republic of Congo	Bikoro	-0.734	18.138	World Health Organization 2018a
Ebola virus (EBOV)	2018	Democratic Republic of Congo	Mangina health district	0.57	29.32	World Health Organization 2018b

Table S2. List of final BioClim variables used to model the predicted suitable habitat space for each bat species using Maxent models.

BioClim Code	Bioclimatic variable	Reference
BIO4	Temperature Seasonality (standard deviation *100)	Hijmans et al., 2005
BIO6	Min Temperature of Coldest Month	Hijmans et al., 2005
BIO8	Mean Temperature of Wettest Quarter	Hijmans et al., 2005
BIO17	Precipitation of Driest Quarter	Hijmans et al., 2005
BIO18	Precipitation of Warmest Quarter	Hijmans et al., 2005
BIO19	Precipitation of Coldest Quarter	Hijmans et al., 2005
Ecoregions	-	Olson et al., 2001
Altitude	-	Hijmans et al., 2005
Altitudinal roughness	-	-

*Altitudinal roughness was calculated using DIVA-GIS

Table S3. Suspected bat hosts of Ebola (*Ebolavirus* spp.) and citation of first paper to identify the species as a potential host.

Family	Species	Family	Source
Pteropodidae	*Eidolon helvum*	Pteropodidae	Hayman et al., 2010
	Epomops franqueti	Pteropodidae	Leroy et al., 2005; Pourrut et al., 2009
	Epomophorus gambianus	Pteropodidae	Hayman et al., 2012
	Hypsignathus monstrosus	Pteropodidae	Leroy et al., 2005; Pourrut et al., 2009
	Micropteropus pusillus	Pteropodidae	Pourrut et al., 2009
	Myonycteris torquata	Pteropodidae	Leroy et al., 2005
	Nanonycteris veldkampii	Pteropodidae	Hayman et al., 2012
	Rousettus aegyptiacus	Pteropodidae	Pourrut et al., 2009
Hipposideridae	*Hipposideros gigas*	Hipposideridae	Pourrut et al., 2009
Molossidae	*Mops condylurus*	Molossidae	Pourrut et al., 2009; Goldstein et al., 2018
	Chaerephon pumilus	Molossidae	Goldstein et al., 2018

Table S4. Correlation table for total bat richness, human population density, road density, crop cover, and pasture cover.

	Total bat richness	Human population density	Road density	Crop cover	Pasture cover
Total bat richness	-				
Human population density	0.24	-			
Road density	0.22	0.22	-		
Crop cover	0.27	0.23	0.21	-	
Pasture cover	-0.04	-0.05	0.15	0.03	-

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