Z. Paraskevopoulou et al.

Swift fox case study

## Field surveys can improve predictions of habitat suitability for reintroductions: a swift fox case study

ZOE PARASKEVOPOULOU, HILA SHAMON, MELISSA SONGER, GRAEME RUXTON and WILLIAM J. MCSHEA

SUPPLEMENTARY TABLE 1 Coyote and Leporidae occupancy estimation models ranked by Akaike information criterion (AIC). Models presented are those with a cumulative delta AIC < 2 and the null model. Models based on camera trap data collected June – October 2018, May – September 2019. Northern Great Plains, Montana, USA. negLogLike = negative loglikelihood; AIC = Akaike information criterion; delta = delta AIC; AICwt = AIC weight; cumltvWt = cumulative weight

	Model	negLogLike	nPars	AIC	delta	AICwt	cumltvWt
Leporidae	~factor(trail) ~ shrub cover+ shrub height+ slope + canopy cover	911.85	7	1837.7	0	0.388	0.388
	~factor(trail) ~ Human disturbance index + shrub cover + shrub height + slope + canopy cover	911.24	8	1838.48	0.78	0.2623	0.65
	~factor(trail) ~ shrub height + shrub cover	914.6	5	1839.19	1.49	0.184	0.834
	~factor(trail) ~ intercept only ( <i>null</i> )	928.12	3	1862.25	24.55	1.81E-06	0.999
Coyote	~factor(trail) + shrub cover 5m radius~ shrub cover + shrub height + slope + canopy cover	2040.7	8	4097.4	0	0.758	0.758
	~factor(trail) + shrub cover 5m radius ~ human disturbance index + shrub cover + shrub height + slope + canopy cover	2040.92	9	4099.84	2.44	0.225	0.982
	~factor(trail) + shrub cover 5m radius ~ Intercept only ( <i>null</i> )	2051.08	4	4110.16	12.75	0.0013	0.998

SUPPLEMENTARY TABLE 2 Environmental variables extracted from ENV-DATA application available on Movebank and used to correct for detection bias in the Bioacoustics model.

Variable	Source	Units	Description
Cloud cover	European Centre for	0-1	The proportion of the
	Medium-Range Weather		model grid cell covered
	Forecasts (ECMWF)		by clouds occurring in
	Interim Full Daily at		high levels of the
	Surface Forecast (SFC-		troposphere.
	FC) Total Cloud Cover		
Total precipitation (0.75	ECMWF Interim Full	m of water	Accumulated
degrees, 3-hourly)	Daily SFC-FC Total		precipitation, including
	Precipitation		rain and snow, at ground
			level.
Wind speed (10 m above	ECMWF Interim Full	m/s	Velocity of the east-west
the earth's)	Daily SFC-FC Wind (10		(zonal) winds at 10 m
	m above ground U		above ground.
	component)		
Temperature	ECMWF Interim Full	Κ	Air temperature 2 m
-	Daily SFC-FC		above ground level.
	Temperature (2m above		-
	Ground)		