

Supporting information

S3 Table. Generalized linear mixed models describing the relationship between bat activity and wind speed (metrics 1 and 2). GLMMs included bat activity (presence/absence) as dependent variable with wind speed as explanatory variable and recording night as a random factor. Modelling was carried out for all recorded bat species, the two most common recorded species *P. pipistrellus* and *H. savii* and the rare species *M. myotis*/*M. blythii* and *T. teniotis* on the crane for all heights (5-65 m) and for the dangerous zone only (50-65 m). The same modelling approach was applied to activity data of all bat species obtained from ground level at the six foreseen wind turbine sites.

Bat species	Data origin	Height	Fixed effects	Estimate	Std. Error	z value	p value
All bat species	Crane	All heights	Intercept	0.785	0.639	1.109	0.267
			Wind speed	-0.828	0.159	-5.214	<0.001
		Dangerous zone	Intercept	-0.034	0.721	-0.048	0.962
			Wind speed	-0.530	0.227	-2.337	0.019
	Ground		Intercept	0.504	0.841	0.600	0.549
			Wind speed	0.603	0.259	2.331	0.020
<i>P. pipistrellus</i>	Crane	All heights	Intercept	0.594	0.684	0.868	0.386
			Wind speed	-1.124	0.191	-5.802	<0.001
		Dangerous zone	Intercept	-0.578	1.251	-0.462	0.644
			Wind speed	-1.133	0.486	-2.334	0.020
<i>H. savii</i>	Crane	All heights	Intercept	-1.952	0.002	-1008.2	<0.001
			Wind speed	-0.577	0.002	-297.7	<0.001
		Dangerous zone	Intercept	-2.031	0.805	-2.524	0.012
			Wind speed	-0.432	0.396	-1.091	0.275
<i>M. myotis</i> / <i>M. blythii</i>	Crane	All heights	Intercept	-3.310	0.718	-4.608	<0.001
			Wind speed	-0.258	0.245	-1.053	0.292
		Dangerous zone	Intercept	-12.108	7.934	-1.526	0.127
			Wind speed	1.175	0.958	1.227	0.220
<i>T. teniotis</i>	Crane	All heights	Intercept	-1.891	0.002	-936.2	<0.001
			Wind speed	-0.572	0.002	-283.3	<0.001
		Dangerous zone	Intercept	-1.451	0.801	-1.811	0.070
			Wind speed	-0.458	0.313	-1.467	0.142