

SUPPORTING INFORMATION

Article title: A matter of time: delayed mate encounter postpones mating window initiation and reduces the strength of female choosiness

Journal name: Behavioral Ecology and Sociobiology

Authors: Merel C. Breedveld, Patrick S. Fitze

Corresponding Author: Merel C. Breedveld,
Instituto Pirenaico de Ecología (IPE-CSIC),
Avda. Nuestra Señora de la Victoria s/n,
22700 Jaca, Spain
E-mail: merelbreedveld@mncn.csic.es

S1 Models of emergence probability in relation to climatic predictors

Six daily climatic predictors were initially used to model the probability that females emerged from hibernation on a given day: maximum temperature (°C; max T), mean temperature (°C; mean T), minimum temperature (°C; min T), daily cumulative precipitation (mm), daily maximum wind velocity (km/hr; max wind), and mean maximum wind velocity (km/hr; max mean wind). Mean temperature was strongly correlated with minimum and maximum temperature ($P < .0001$) and had a very low tolerance (0.01). The tolerances of the five remaining predictor variables were ≥ 0.27 , indicating no risk of collinearity (Quinn and Keough 2002). Mean temperature was therefore not used as a predictor variable.

Table S1 Probability of female emergence from hibernation as a function of calendar day, temperature, wind, and precipitation. Shown are the 10 models with lowest Information Criterion (AIC) and seven additional models (depicted in italics) for model comparison. AIC values and Δ AIC with respect to model 1 are given

Model	Main effects			Interactions		AIC	Δ AIC
1	max T	min T	mean max wind	max T \times min T		17.47	0.00
2	max T	min T	mean max wind	max T \times min T	max T \times mean max wind	18.88	1.41
3	max T	min T		max T \times min T		19.08	1.60
4	max T	min T	day	max T \times min T		20.95	3.47
5	max T	day	mean max wind	max T \times day		22.14	4.67
6	max T	min T	day	min T \times day		22.32	4.84
7	max T	day	mean max wind	max T \times mean max wind	day \times mean max wind	22.38	4.90
8	max T	day	mean max wind			22.44	4.97
9	max T	day	mean max wind	max T \times day	day \times mean max wind	23.22	5.75
10	max T	min T				23.71	6.24
20	<i>max T</i>	<i>min T</i>	<i>mean max wind</i>			25.02	7.55
21	<i>max T</i>	<i>min T</i>	<i>day</i>			25.13	7.66
29	<i>max T</i>					26.27	8.80
35	<i>max T</i>	<i>min T</i>	<i>mean max wind</i>	<i>max T \times mean max wind</i>		27.00	9.53
41	<i>max T</i>		<i>mean max wind</i>			27.53	10.06
57	<i>min T</i>					29.64	12.16
83	<i>min T</i>		<i>mean max wind</i>			31.61	14.14

References

Quinn GP, Keough MJ (2002) Experimental design and data analysis for biologists,
1st edn. Cambridge University Press, Cambridge