

Table S4. Conditional probability tables for each node in the Bayesian network model of *Hylastes ater* flight activity as discretized from case data using the expectation maximization algorithm.

Table S4A. Conditional probability table for node flight

Flight	
Yes	0.019767
No	0.980233

Table S4B. Conditional probability table for node temperature range (°C)

Flight	Time since sunrise (mins)	Outcome	
		< 0.9	>= 0.9
Yes	< 33	0.666666	0.333334
Yes	33 to 289	0.057693	0.942307
Yes	289 to 735	0.190477	0.809524
Yes	735 to 952	0.192308	0.807692
Yes	>= 952	0.307693	0.692307
No	< 33	0.262525	0.737475
No	33 to 289	0.133112	0.866889
No	289 to 735	0.183827	0.816173
No	735 to 952	0.530144	0.469857
No	>= 952	0.520057	0.479943

Table S4C. Conditional probability table for node wind speed (m⁻¹s⁻¹)

Flight	Time since sunrise (mins)	Outcome	
		< 3.3	>= 3.3
Yes	< 33	0.666666	0.333334
Yes	33 to 289	0.884615	0.115385
Yes	289 to 735	0.619048	0.380953
Yes	735 to 952	0.769231	0.230769
Yes	>= 952	0.999999	7.69E-07
No	< 33	0.733467	0.266533
No	33 to 289	0.535774	0.464226
No	289 to 735	0.349788	0.650212
No	735 to 952	0.668899	0.331100
No	>= 952	0.756017	0.243983

Table S4D. Conditional probability table for node Day of year

Flight	Maximum Temperature (°C)	Outcome	
		< 41	>= 41
Yes	< 14	0.473684	0.526316
Yes	>= 14	0.803279	0.196721
No	< 14	0.166418	0.833582
No	>= 14	0.532014	0.467986

Table S4E. Conditional probability table for node maximum temperature (°C)

Flight	Time since sunrise (mins)	Outcome	
		< 14	>= 14
Yes	< 33	3.33E-06	0.999997
Yes	33 to 289	0.019231	0.980769
Yes	289 to 735	0.238096	0.761904
Yes	735 to 952	0.134615	0.865385
Yes	>= 952	0.461538	0.538462
No	< 33	0.625251	0.374750
No	33 to 289	0.318636	0.681364
No	289 to 735	0.283028	0.716972
No	735 to 952	0.588517	0.411483
No	>= 952	0.680038	0.319962

Table S4F. Conditional probability table for node maximum temperature (°C)

Flight	Time since sunset (mins)	Outcome		
		< -47	-47 to 1221	>= 1221
Yes		0.085106	0.687943	0.22695
No		0.01373	0.887729	0.098541

Table S4G. Conditional probability table for node time since sunrise (mins)

Flight	Time since sunset (mins)	Outcome				
		< 33	33 to 289	289 to 735	735 to 952	>= 952
Yes	< -47	8.33E-07	8.33E-07	8.33E-07	0.999997	8.33E-07
Yes	-47 to 1221	0.030928	0.536082	0.134021	0.164948	0.134021
Yes	>= 1221	3.12E-07	3.12E-07	0.250000	0.749999	3.12E-07
No	< -47	1.04E-07	1.04E-07	0.072917	0.927083	1.04E-07
No	-47 to 1221	0.080393	0.193652	0.286773	0.097793	0.341389
No	>= 1221	1.45E-08	1.45E-08	0.493469	0.506531	1.45E-08