

Table S6. R^2 values for the models with time points within a day and month and different variables.

Variables	R^2 (%)			
	Female <i>Ae. albopictus</i>	(95% CrI)	Male <i>Ae. albopictus</i>	(95% CrI)
<i>Temp</i>	34.6	(23.3, 46.6)	51.7	(36.1, 58.8)
<i>RH</i>	37.8	(24.2, 51.0)	51.2	(34.2, 56.2)
<i>d_or_n</i>	37.1	(23.9, 50.5)	45.3	(26.8, 59.1)
<i>Wind</i>	36.8	(24.3, 48.3)	-	-
$\log(Illum+0.001)$	45.6	(32.2, 54.3)	51.5	(35.4, 58.5)
<i>Temp</i> + <i>RH</i> + <i>d_or_n</i>	-	-	58.5	(44.2, 64.2)
<i>Temp</i> + <i>RH</i> + <i>d_or_n</i> + <i>Wind</i>	45.6	(34.7, 54.5)	-	-
$\log(Illum+0.001)$ + <i>Wind</i>	46.3	(35.0, 54.2)	-	-

Abbreviation: 95% CrI, 95% credible interval.

Temp means temperature. *RH* means relative humidity. *d_or_n* means whether the time point is in the daytime or at nighttime. *Wind* means wind speed. $\log(Illum+0.001)$ means the log-transformation of (*Illum* + 0.001).

- means the R^2 was not calculated for the model which was not fitted.