										Inclu	ided teri	ns											
T	Mand	ns(TI	PWAD)			ns(7	[emp]					ns(RH)			1			ns(W	Vind)			WAIC
Intercept	Month	df=4	<i>df</i> =6	<i>df</i> =1	<i>df</i> =2	df=3	df=4	df=5	<i>df</i> =6	<i>df</i> =1	<i>df</i> =2	df=3	<i>df</i> =4	df=5	<i>df</i> =6	a_or_n	<i>df</i> =1	<i>df</i> =2	df=3	df=4	df=5	<i>df</i> =6	
\checkmark	\checkmark	\checkmark																					2476.75
\checkmark	\checkmark		\checkmark																				2468.72
\checkmark	\checkmark	\checkmark		\checkmark																			2479.30
\checkmark	\checkmark	\checkmark			\checkmark																		2381.97
\checkmark	\checkmark	\checkmark				\checkmark																	2385.42
\checkmark	\checkmark	\checkmark					\checkmark																2386.50
\checkmark	\checkmark	\checkmark						\checkmark															2388.87
\checkmark	\checkmark	\checkmark							\checkmark														2391.65
\checkmark	\checkmark	\checkmark								\checkmark													2451.59
\checkmark	\checkmark	\checkmark									\checkmark												2454.13
\checkmark	\checkmark	\checkmark										\checkmark											2453.98
\checkmark	\checkmark	\checkmark											\checkmark										2455.17
\checkmark	\checkmark	\checkmark												\checkmark									2439.66
\checkmark	\checkmark	\checkmark													\checkmark								2433.45
\checkmark	\checkmark	\checkmark														\checkmark							2454.28
\checkmark	\checkmark	\checkmark															\checkmark						2468.04
\checkmark	\checkmark	\checkmark																\checkmark					2467.21
\checkmark	\checkmark	\checkmark																	\checkmark				2467.91
\checkmark	\checkmark	\checkmark																		\checkmark			2455.54
\checkmark	\checkmark	\checkmark																			\checkmark		2454.94
\checkmark	\checkmark	\checkmark																				\checkmark	2455.57
\checkmark	\checkmark	\checkmark			\checkmark					\checkmark													2378.66
\checkmark	\checkmark	\checkmark			\checkmark						\checkmark												2380.82
\checkmark	\checkmark	\checkmark			\checkmark							\checkmark											2382.42
\checkmark	\checkmark	\checkmark			\checkmark								\checkmark										2383.99
\checkmark	\checkmark	\checkmark			\checkmark									\checkmark									2376.05
\checkmark	\checkmark	\checkmark			\checkmark										\checkmark								2369.54
\checkmark	\checkmark	\checkmark			\checkmark					\checkmark						\checkmark							2350.90
\checkmark	\checkmark	\checkmark			\checkmark					\checkmark						\checkmark	\checkmark						2352.17
\checkmark	\checkmark	\checkmark			\checkmark					\checkmark						\checkmark		\checkmark					2351.50
\checkmark	\checkmark	\checkmark			\checkmark					\checkmark						\checkmark			\checkmark				2351.68
\checkmark	✓	\checkmark			\checkmark					\checkmark						\checkmark				\checkmark			2334.14
\checkmark	\checkmark	\checkmark			\checkmark					\checkmark						\checkmark					\checkmark		2333.66
\checkmark	\checkmark	\checkmark			\checkmark					\checkmark						\checkmark						\checkmark	2334.64

 Table S5a. Values of the Watanabe-Akaike information criterion (WAIC) for models used for the assessment of potential influential factors (without illuminance)

 of female Ae. albopictus for the period from November 2016 to November 2017.

Month represents a categorical variable indicating month. ns(.) means natural cubic spline function of a variable. TPWAD represents the time point within a day. *Temp*, *RH*, and *Wind* represent temperature, relative humidity, and wind speed, respectively. *df* means degree of freedom. d_or_n represents whether the time point is in the daytime or at nighttime. *Note.* The final model was in bold.

				Includ	led terms									
				n	s(log(<i>Illum</i>	2))				ns(V	Vind)			WAIC
Intercept	Month	ns(1PWAD, df=4)	<i>df</i> =2	df=3	<i>df</i> =4	df=5	df=6	<i>df</i> =1	df=2	df=3	df=4	df=5	df=6	
\checkmark	\checkmark	\checkmark	\checkmark											2456.82
\checkmark	\checkmark	\checkmark		\checkmark										2420.02
\checkmark	\checkmark	\checkmark			\checkmark									2410.93
\checkmark	\checkmark	\checkmark				\checkmark								2414.91
\checkmark	\checkmark	\checkmark					\checkmark							2412.93
\checkmark	\checkmark	\checkmark		\checkmark				\checkmark						2410.47
\checkmark	\checkmark	\checkmark		\checkmark					\checkmark					2409.33
\checkmark	\checkmark	\checkmark		\checkmark						\checkmark				2409.47
\checkmark	\checkmark	\checkmark		\checkmark							\checkmark			2397.81
\checkmark	\checkmark	\checkmark		\checkmark								\checkmark		2398.36
\checkmark	\checkmark	\checkmark		\checkmark									\checkmark	2400.08

Table S5b. Values of the Watanabe-Akaike information criterion (WAIC) for models used for the assessment of potential influential factors (with illuminance) of female *Ae. albopictus* for the period from between November 2016 to November 2017.

Month represents a categorical variable indicating month. ns(.) means natural cubic spline function of a variable. TPWAD represents the time point within a day. df means degree of freedom. log(Illum+0.001) means the log-transformation of (Illum + 0.001). *Note.* The final model was in bold.

									It	neluded te	erms												
Intercent	Month	ns(TP	WAD)			ns(Te	mp)					ns(RH)						ns()	Vind)			WAIC
	/	df=4	<i>df</i> =6	<i>df</i> =1	<i>df</i> =2	df=3	<i>df</i> =4	df=5	df=6	<i>df</i> =1	<i>df</i> =2	<i>df</i> =3	<i>df</i> =4	df=5	<i>df</i> =6	d_{or_n}	<i>df</i> =1	<i>df</i> =2	<i>df</i> =3	<i>df</i> =4	df=5	<i>df</i> =6	
√	√	\checkmark	./																				1641.24
v ./	v		•	.(1015.50
v	v		v	v	/																		1018.95
v	v		V		v	/																	1542.41
√	√		√			\checkmark																	1542.95
\checkmark	√		✓				\checkmark																1544.94
\checkmark	\checkmark		\checkmark					\checkmark															1546.99
\checkmark	\checkmark		\checkmark						\checkmark														1546.34
\checkmark	\checkmark		\checkmark							\checkmark													1599.56
\checkmark	\checkmark		\checkmark								\checkmark												1594.54
\checkmark	\checkmark		\checkmark									\checkmark											1596.11
\checkmark	\checkmark		\checkmark										\checkmark										1597.99
\checkmark	\checkmark		\checkmark											\checkmark									1594.08
\checkmark	\checkmark		\checkmark												\checkmark								1596.56
\checkmark	\checkmark		\checkmark													\checkmark							1601.58
\checkmark	\checkmark		\checkmark														\checkmark						1611.65
\checkmark	\checkmark		\checkmark															\checkmark					1613.15
\checkmark	\checkmark		\checkmark																\checkmark				1612.90
\checkmark	\checkmark		\checkmark																	\checkmark			1612.80
\checkmark	\checkmark		\checkmark																		\checkmark		1614 62
\checkmark	\checkmark		\checkmark																			\checkmark	1614 54
\checkmark	\checkmark		\checkmark		\checkmark					\checkmark													1538 15
1	1		<u> </u>		~						1												1530.15
	√		√									\checkmark											15/110
					•							•	./										1544.20
•	•		•		•								v	/									1544.50
v	v		•		v									v	/								1542.46
v	v		v		~					,					V	,							1543.74
v	v		√		•					•						√	,						1520.58
V	√		√		√ ,					√						√	\checkmark	,					1522.07
√	√		✓		\checkmark					\checkmark						√		\checkmark					1522.51
\checkmark	\checkmark		\checkmark		\checkmark					\checkmark						\checkmark			\checkmark				1521.85
\checkmark	\checkmark		\checkmark		\checkmark					\checkmark						\checkmark				\checkmark			1522.41
\checkmark	\checkmark		\checkmark		\checkmark					\checkmark						\checkmark					\checkmark		1524.38
\checkmark	\checkmark		\checkmark		\checkmark					\checkmark						\checkmark						\checkmark	1524 74

 Table S5c. Values of the Watanabe-Akaike information criterion (WAIC) for models used for the assessment of potential influential factors (without illuminance)

 of male Ae. albopictus for the period from November 2016 to November 2017.

Month represents a categorical variable indicating month. ns(.) means natural cubic spline function of a variable. TPWAD represents the time point within a day. *Temp*, *RH*, and *Wind* represent temperature, relative humidity, and wind speed, respectively. *df* means degree of freedom. d_or_n represents whether the time point is in the daytime or at nighttime. *Note.* The final model was in bold.

Table S5d. Values of the Watanabe-Akaike information criterion (WAIC) for models used for the assessment of potential influential factors (with illuminance) of male *Ae. Albopictus* for the period from November 2016 to November 2017.

				Inclu	ded terms									
Intercept	Month	ng(TDWAD df-6)			ns(log(Illu	um))				ns	(Wind)			WAIC
	Monin	ns(11 wAD, uj=0)	<i>df</i> =2	<i>df</i> =3	df=4	df=5	df=6	<i>df</i> =1	df=2	df=3	df=4	df=5	<i>df</i> =6	_
\checkmark	\checkmark	\checkmark	\checkmark											1594.09
✓	\checkmark	\checkmark		✓										1574.23
\checkmark	\checkmark	\checkmark			\checkmark									1573.75
\checkmark	\checkmark	\checkmark				\checkmark								1571.36
\checkmark	\checkmark	\checkmark					\checkmark							1575.41
\checkmark	\checkmark	\checkmark		\checkmark				\checkmark						1573.34
\checkmark	\checkmark	\checkmark		\checkmark					\checkmark					1575.10
\checkmark	\checkmark	\checkmark		\checkmark						\checkmark				1574.98
\checkmark	\checkmark	\checkmark		\checkmark							\checkmark			1575.94
\checkmark	\checkmark	\checkmark		\checkmark								\checkmark		1577.64
\checkmark	\checkmark	\checkmark		\checkmark									\checkmark	1577.76

Month represents a categorical variable indicating month. ns(.) means natural cubic spline function of a variable. TPWAD represents the time point within a day. df means degree of freedom. log(IIlum+0.001) means the log-transformation of (IIlum + 0.001). *Note.* The final model was in bold.