Table S7a. 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 June-July 2018.

		(TE)	MA D)				7 )			Incl	uded ter		DIA						/1	Vind)			_
Intercept	Month	ns(TPWAD)			ns(Temp)					ns(RH)					$d\_or\_n$		WAIC						
тистеерт		df=4	df=6	df=1	df=2	df=3	df=4	df=5	<i>df</i> =6	df=1	df=2	df=3	df=4	df=5	<i>df</i> =6	u_0/_//	df=1	df=2	df=3	df=4	df=5	df=6	
✓	✓	✓																					2010.73
✓	$\checkmark$		$\checkmark$																				1984.78
✓	$\checkmark$		$\checkmark$	$\checkmark$																			1953.59
✓	$\checkmark$		$\checkmark$		$\checkmark$																		1955.09
✓	$\checkmark$		$\checkmark$			$\checkmark$																	1957.72
<b>√</b>	<b>√</b>		<b>√</b>				$\checkmark$																1958.72
✓	<b>√</b>		<b>√</b>					$\checkmark$															1960.91
<b>√</b>	<b>√</b>		<b>√</b>						✓	,													1962.13
<b>√</b>	<b>√</b>		<b>√</b>							✓													1959.70
<b>√</b>	<b>√</b>		<b>√</b>								✓												1959.48
<b>√</b>	<b>√</b>		<b>√</b>									✓											1962.35
<b>√</b>	<b>√</b>		<b>√</b>										✓										1960.30
<b>√</b>	<b>√</b>		<b>√</b>											✓	,								1963.61
<b>/</b>	<b>V</b>		<b>√</b>												<b>√</b>	,							1955.55
<b>v</b>	<b>v</b>		<b>v</b>													<b>V</b>							1982.01
<b>v</b>	<b>v</b>		<b>v</b>														•	./					1987.28 1989.25
<b>,</b>	<b>v</b>		<b>v</b>															•	./				1989.25
, /	<b>v</b>		<b>v</b>																•	1			1988.23
, /	<b>v</b>		<b>v</b>																	•	✓		1989.30
/	·		·																		·	✓	1986.40
_	·		·	✓						<b>√</b>												·	1955.24
⁄	✓		✓	✓							✓												1958.56
/	✓		✓	✓								<b>√</b>											1961.59
/	✓		✓	$\checkmark$									✓										1953.40
/	✓		✓	$\checkmark$										✓									1957.83
/	✓		✓	✓											✓								1952.55
✓	✓		✓	✓												✓							1951.44
<b>√</b>	$\checkmark$		$\checkmark$	✓												✓	✓						1954.07
✓	$\checkmark$		$\checkmark$	✓												✓		$\checkmark$					1951.90
✓	$\checkmark$		$\checkmark$	$\checkmark$												✓			$\checkmark$				1950.92
$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$												✓				$\checkmark$			1956.94
	$\checkmark$		$\checkmark$	$\checkmark$												$\checkmark$					$\checkmark$		1952.64
<b>√</b>	✓		$\checkmark$	$\checkmark$												$\checkmark$						$\checkmark$	1949.34

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 S7b. 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 June-July 2018.

										Include	ed terms												-
		ns(TPWAD)		ns(Temp)					ns(RH)						$d\_or\_n$	ns(Wind)						WAIC	
Intercept		df=4	df=6	df=1	df=2	df=3	df=4	df=5	df=6	df=1	df=2	df=3	<i>df</i> =4	<i>df</i> =5	df=6	u_0/_n	df=1	df=2	<i>df</i> =3	df=4	<i>df</i> =5	df=6	
$\checkmark$	$\checkmark$	$\checkmark$																					1801.25
$\checkmark$	$\checkmark$		$\checkmark$																				1789.52
$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$																			1746.67
$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$																		1737.94
$\checkmark$	$\checkmark$	$\checkmark$				$\checkmark$																	1739.64
$\checkmark$	$\checkmark$	$\checkmark$					$\checkmark$																1740.83
$\checkmark$	$\checkmark$	$\checkmark$						$\checkmark$															1742.58
$\checkmark$	$\checkmark$	$\checkmark$							$\checkmark$														1743.68
$\checkmark$	$\checkmark$	$\checkmark$								$\checkmark$													1766.22
$\checkmark$	$\checkmark$	$\checkmark$									$\checkmark$												1750.87
$\checkmark$	$\checkmark$	$\checkmark$										$\checkmark$											1748.84
$\checkmark$	$\checkmark$	$\checkmark$											$\checkmark$										1748.20
$\checkmark$	$\checkmark$	$\checkmark$												$\checkmark$									1750.55
$\checkmark$	$\checkmark$	$\checkmark$													$\checkmark$								1744.60
$\checkmark$	$\checkmark$	$\checkmark$														$\checkmark$							1782.22
$\checkmark$	$\checkmark$	$\checkmark$															$\checkmark$						1802.69
$\checkmark$	$\checkmark$	$\checkmark$																$\checkmark$					1802.02
$\checkmark$	$\checkmark$	$\checkmark$																	$\checkmark$				1801.02
$\checkmark$	$\checkmark$	$\checkmark$																		$\checkmark$			1804.84
$\checkmark$	$\checkmark$	$\checkmark$																			$\checkmark$		1804.05
✓	✓	✓																				$\checkmark$	1803.65
$\checkmark$	✓	$\checkmark$		$\checkmark$						✓													1748.11
$\checkmark$	✓	$\checkmark$		$\checkmark$							✓												1742.74
✓	✓	$\checkmark$		$\checkmark$								$\checkmark$											1738.94
$\checkmark$	$\checkmark$	$\checkmark$		✓									✓										1733.37
✓	✓	$\checkmark$		✓										$\checkmark$									1738.36
✓	✓	✓		✓											✓								1730.78
✓	✓	✓		✓												✓							1727.81
✓	✓	✓		✓												✓	$\checkmark$						1729.69
✓	✓	✓		✓												✓		✓					1730.01
✓	✓	√		· ✓												· ✓		•	✓				1728.60
<b>√</b>	✓	· ✓		· ✓												· ✓			•	<b>✓</b>			1723.00
· ✓	<i>'</i>	✓														✓				•	<b>√</b>		1731.70
✓	✓															✓					•	<b>√</b>	1730.43
	*	· · · · · · · · · · · · · · · · · · ·														*							1/31.31

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 S7c. 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 June-July 2018.

				Incl	uded terms	3								_		
Intercept	Month	ns(TPWAD, df=6)		i	ns(log(Illu	(m))			ns(Wind)							
тегеері	Monin	ns(11 WAD, 4, 0)	df=2	df=3	<i>df</i> =4	<i>df</i> =5	<i>df</i> =6	<i>df</i> =1	<i>df</i> =2	<i>df</i> =3	df=4	<i>df</i> =5	df=6	_		
✓	✓	✓	✓											1978.57		
✓	✓	$\checkmark$		✓										1975.06		
<b>✓</b>	✓	$\checkmark$			$\checkmark$									1976.67		
<b>/</b>	✓	✓				✓								1978.12		
/	✓	✓					✓							1979.31		
	✓	✓	✓					✓						1980.82		
	✓	✓	✓						$\checkmark$					1983.16		
	✓	✓	✓							✓				1980.36		
	✓	✓	✓								✓			1984.85		
	✓	$\checkmark$	✓									✓		1980.83		
/	✓	✓	✓										✓	1981.30		

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.

Table S7d. 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 June-July 2018.

	Included terms															
Intercept	Month	ns(TPWAD, df=4)			ns(log(Illu	(m))			ns(Wind)							
	Monin	ns(1F WAD, uj-4)	<i>df</i> =2	<i>df</i> =3	df=4	<i>df</i> =5	<i>df</i> =6	<i>df</i> =1	<i>df</i> =2	<i>df</i> =3	<i>df</i> =4	df=5	<i>df</i> =6	_		
<b>√</b>	✓	✓	✓											1793.27		
<b>✓</b>	✓	✓		✓										1756.29		
	✓	✓			✓									1758.95		
	✓	✓				✓								1760.99		
	✓	✓					$\checkmark$							1759.68		
	✓	✓		✓				✓						1758.24		
/	✓	✓		✓					$\checkmark$					1759.01		
/	✓	✓		✓						✓				1758.75		
/	✓	✓		✓							$\checkmark$			1761.31		
/	✓	✓		✓								✓		1763.45		
/	✓	✓		✓									✓	1760.15		

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.