LIST OF SYMBOLS

A_{Ld}	surface area receiving longwave sky radiation (m^2)
A_{Lu}	surface area receiving longwave terrestrial radiation (m^2)
A_p	projected surface area perpendicular to the solar beam (m^2)
A_s	surface area receiving scattered shortwave radiation (m^2)
A_{sr}	surface area receiving reflected shortwave radiation (m^2)
A_t	total surface area (m^2)
a	major axis of a prolate spheroid (m)
B_T	total of all possible benefits attained during a given time interval (units?)
b	minor axis of a prolate spheroid (m)
C_T	total of all possible costs accrued during a given time interval (units?)
c_p	specific heat of air (10^3J kg^{-1} $°C^{-1}$)
d	characteristic dimension (m)
E	total evaporative water loss (g m^{-2} s^{-1})
e	eccentric of a prolate spheroid (m)
$\dot{H}_{AP}$	cost of active perching (kJ h^{-1})
$\dot{H}_b$	basal metabolic rate (kJ h^{-1})
H_{db}	total daily basal metabolism ($\dot{H}_b \times 24$ hours; kJ)
$\dot{H}_{Fl}$	cost of flights > 3 sec. duration (kJ h^{-1})
$\dot{H}_{Fs}$	cost of flights ≤ 3 sec. duration (kJ h^{-1})
H_f	energy content of food swallowed (kJ)
$\dot{H}_H$	cost of hopping (kJ h^{-1})
$\dot{H}_i$	cost of incubation (kJ h^{-1})
$\dot{H}_m$	flux density of metabolic heat at the skin surface (W m^{-2})
$\dot{H}_{na}$	cost of nest attendance (kJ h^{-1})
$\dot{H}_{PM}$	cost of molt (kJ h^{-1})
$\dot{H}_{PO}$	cost of ovogenesis (kJ h^{-1})
$\dot{H}_R$	cost of running (kJ h^{-1})
$\dot{H}_r$	cost of roosting (kJ h^{-1})
$\dot{H}_{RP}$	cost of rest perching (kJ h^{-1})
$\dot{H}_S$	cost of standing (kJ h^{-1})
H_{TD}	total daily energy expenditure (kJ)
H_{Tf}	total cost of foraging (kJ)
$\dot{H}_t$	cost of thermoregulation (kJ h^{-1})
$\dot{H}_{uf}$	unit cost of foraging (kJ h^{-1})
$\dot{H}_W$	cost of walking (kJ h^{-1})
h	hour angle of the sun (degrees)
K	diffusion coefficient for heat transfer from a flat plate in laminar flow
K_a	air temperature (°K)
L_d	sky longwave irradiance (W m^{-2})
L_u	terrestrial longwave irradiance (W m^{-2})
m	body mass (g)
Q	total incoming radiation (W m^{-2})
R_{abs}	flux density of absorbed radiation (W m^{-2})
r	radius (m)
r_a	boundary layer resistance (s m^{-1})
r_b	whole body thermal resistance (s m^{-1})

r_c	coat thermal resistance (s m^{-1})
r_e	equivalent resistance (s m^{-1})
r_r	radiative resistance (s m^{-1})
r_t	tissue resistance (s m^{-1})
S_p	direct shortwave irradiance (W m^{-2})
S_r	reflected direct and scattered shortwave irradiance (W m^{-2})
S_s	scattered shortwave irradiance (W m^{-2})
S_{Td}	global radiation (W m^{-2})
T_a	air temperature (°C)
T_b	body temperature (°C)
T_e	equivalent blackbody temperature (°C)
T_{lc}	lower critical temperature (°C)
T_n	thermoneutral zone (°C)
T_{uc}	upper critical temperature (°C)
t	time (h)
t_{AP}	time spent active perching (h)
t_{Fl}	time spent on flights > 3 sec. duration (h)
t_{Fs}	time spent on flights ≤ 3 sec. duration (h)
t_f	time spent foraging (h)
t_H	time spent hopping (h)
t_i	time spent incubating (h)
t_{na}	time spent in nest attendance (h)
t_{PM}	the time interval for estimating the cost of molt (h)
t_{PO}	the time interval for estimating the cost of ovogenesis (h)
t_R	time spent running (h)
t_r	time spent roosting (h)
t_{RP}	time spent rest perching (h)
t_S	time spent standing (h)
t_t	time during which thermoregulation is required (h)
t_W	time spent walking (h)
u	wind velocity (m s^{-1})
x	ratio of the prolate spheroids minor to major axis
α_L	absorptivity of surfaces to longwave radiation
α_s	absorptivity of surfaces to shortwave radiation
β	latitude of the study area (degrees)
δ	solar declination (degrees)
ϵ	emmissivity of the animal's surface
η_{Af}	achieved foraging efficiency
η_E	exploitation efficiency
η_{Rf}	required foraging efficiency
θ	the angle between the direct solar beam and the major axis of the prolate spheroid (degrees)
λ	heat of vaporation (2.43 MJ kg^{-1})
ρ_a	density of air at 20°C (1.2 kg m^{-3})
ρ	reflectance (radiation)
σ	Stephan Boltzmann constant (5.67×10^{-8} W m^{-2} °K^{-4})
τ	transmittance (radiation)