## **Supplementary Material**

Thermal biology of the spotted snow skink, *Niveoscincus ocellatus*, along an altitudinal gradient

Luh P. E. K. Yuni<sup>A,B</sup>, Susan M. Jones<sup>A</sup> and Erik Wapstra<sup>A,C</sup>

<sup>A</sup>School of Natural Sciences, University of Tasmania, Private Bag 55, Hobart, Tas. 7001,

Australia

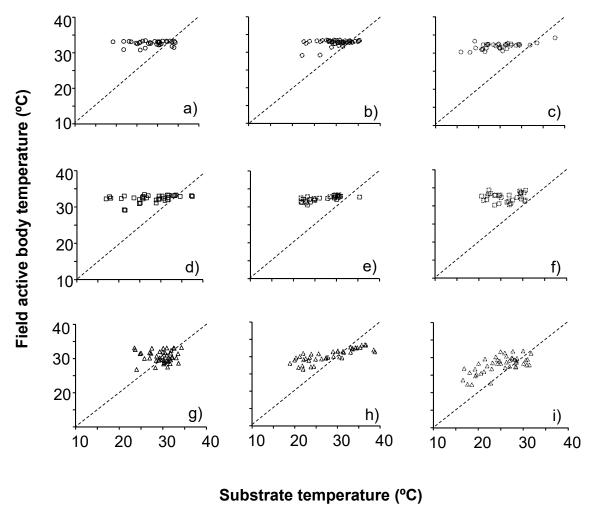
<sup>B</sup>Program Study of Biology, Faculty of Mathematic and Natural Sciences, Udayana

University, Bali 80361, Indonesia.

<sup>C</sup>Corresponding author. Email: Erik.Wapstra@utas.edu.au

Relationships between field active body temperatures and ait temperatures for Niveoscincus ocellatus along an elevational gradient across the active season (spring, summer, autumn).

There was a significant relationship between the field active body temperature and the substrate temperature in summer and autumn at the low altitude (Figs. S1b,c) (summer  $F_{1,45}$  = 6.05, P = 0.0182,  $r^2 = 0.12$ ; autumn  $F_{1.36} = 18.84$ , P = 0.0001,  $r^2 = 0.35$ ) and high altitude sites (Figs. S1h,i) (summer  $F_{1.41} = 77.78$ , P < 0.0001,  $r^2 = 0.66$ ; autumn  $F_{1.43} = 33.05$ , P < 0.0001,  $r^2 = 0.44$ ), but no significant relationship in spring at either the low or high altitude site (Figs. S1a,g) (low altitude  $F_{1,33} = 0.26$ , P = 0.6166,  $r^2 = 0.008$ ; high altitude  $F_{1,45} = 0.04$ , P = 08399,  $r^2 = 0.0009$ ). At the mid altitude, the field active body temperature was significantly related to the substrate temperature in spring ( $F_{1,34} = 6.21$ , P = 0.0179,  $r^2 = 0.16$ ) and summer ( $F_{1,28} =$ 27.00, P < 0.0001,  $r^2 = 0.50$ ) (Figs. S1d,e), but not in autumn (F<sub>1,30</sub> = 0.18, P = 0.6725,  $r^2 =$ 0.006) (Figs. S1f). The range of substrate temperatures at which lizards were active at the low altitude was 19.2-34.3 °C (mean 28.6  $\pm$  0.7 °C), 22.2-35.3 °C (mean 30.4  $\pm$  0.5 °C), and 15.9-7.8 °C (mean  $24.8 \pm 0.7$  °C) in spring, summer, and autumn, respectively (Figs. S1a-c). At the mid altitude, the lizards were active at substrate temperatures of 17.0-37.5 °C (mean 27.7  $\pm$ 0.9 °C), 21.8-35.4 °C (mean 27.0  $\pm$  0.7 °C), and 20.6-30.6 °C (mean 26.2  $\pm$  0.6 °C) in spring, summer, and autumn respectively (Figs. S1d-f). The range of substrate temperatures at the high altitude at which the lizards were active were 23.5-34.3 °C (mean  $29.8 \pm 0.4$  °C), 18.9-38.8 °C (mean 28.4  $\pm$  0.9 °C), and 16.6-31.8 °C (mean 24.9  $\pm$  0.7 °C) in spring summer, and autumn, respectively (Figs. S1g-i).



**Fig. S1.** The relationship between the field active body temperatures and the substrate temperatures of the spotted snow skink, *Niveoscincus ocellatus*, from the three sites studied across three seasons. Figures S1a-c are the low altitude in spring, summer, and autumn. Figures S1d-f are the mid altitude in spring, summer, and autumn. Figures S1g-i are the high altitude in spring, summer, and autumn. The diagonal line (axes X/Y) indicates the strength of relationship between body temperature and substrate temperature (thermoconformity).