

Fig. S1. Bumble bee core temperature (solid lines) tracks vial temperatures (dashed lines) for seven representative individuals, when ramped from ~ 20 °C (room temperature) to ~ -5 °C at 0.10 °C min⁻¹. Colors indicate each bee core temperature and its corresponding vial temperature. Grey region represents the range of CT_{min} values measured for this nest (see text for details).

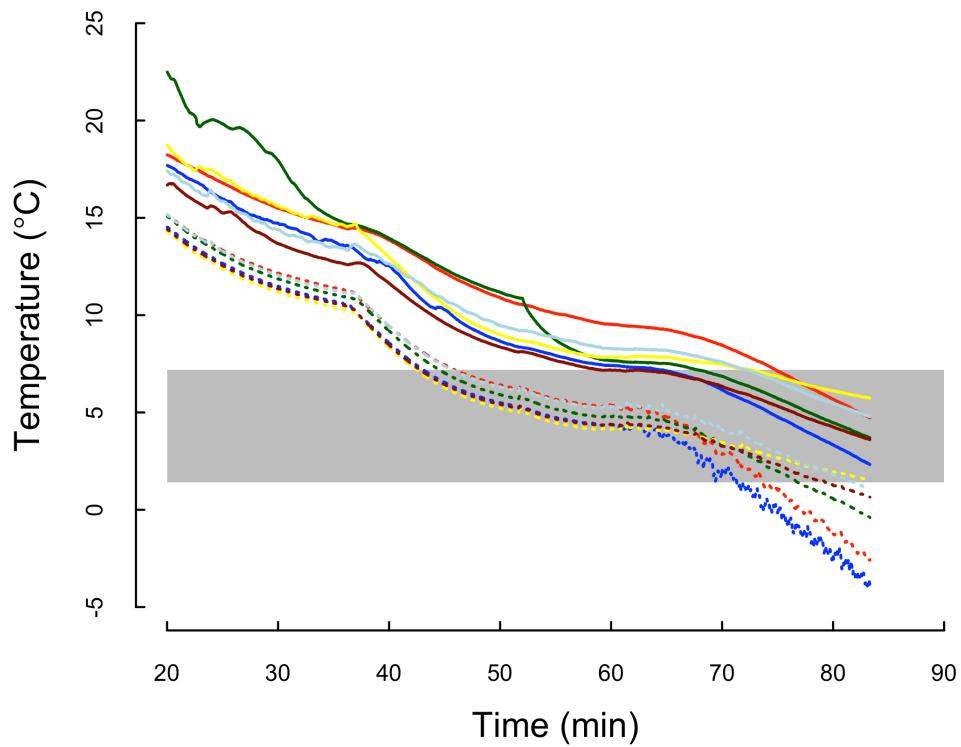


Fig. S2. Bumble bee core temperature (solid lines) tracks vial temperatures (dashed lines) for seven representative individuals, when ramped from ~ 20 °C (room temperature) to ~ -5 °C at $0.25\text{ }^{\circ}\text{C min}^{-1}$. Colors indicate each bee core temperature and its corresponding vial temperature. Grey region represents the range of CT_{min} values measured for this nest (see text for details).

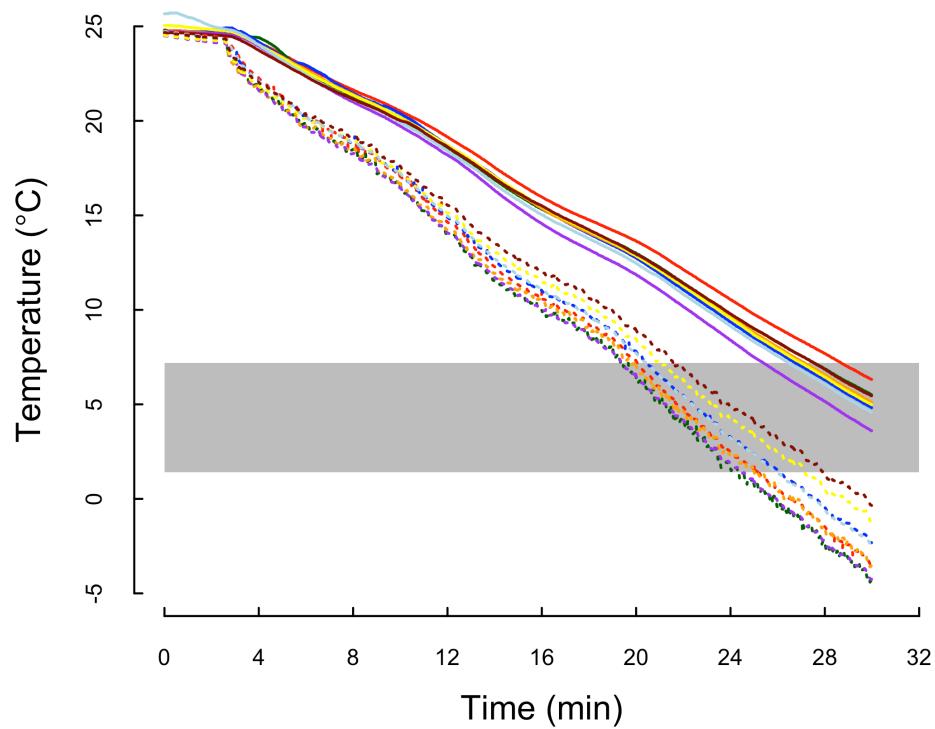


Fig. S3. Bumble bee core temperature (solid lines) tracks vial temperatures (dashed lines) for eight representative individuals, when ramped from ~20 °C (room temperature) to ~-5 °C at 1.0 °C min⁻¹. Colors indicate each bee core temperature and its corresponding vial temperature. Grey region represents the range of CT_{min} values measured for this nest (see text for details).

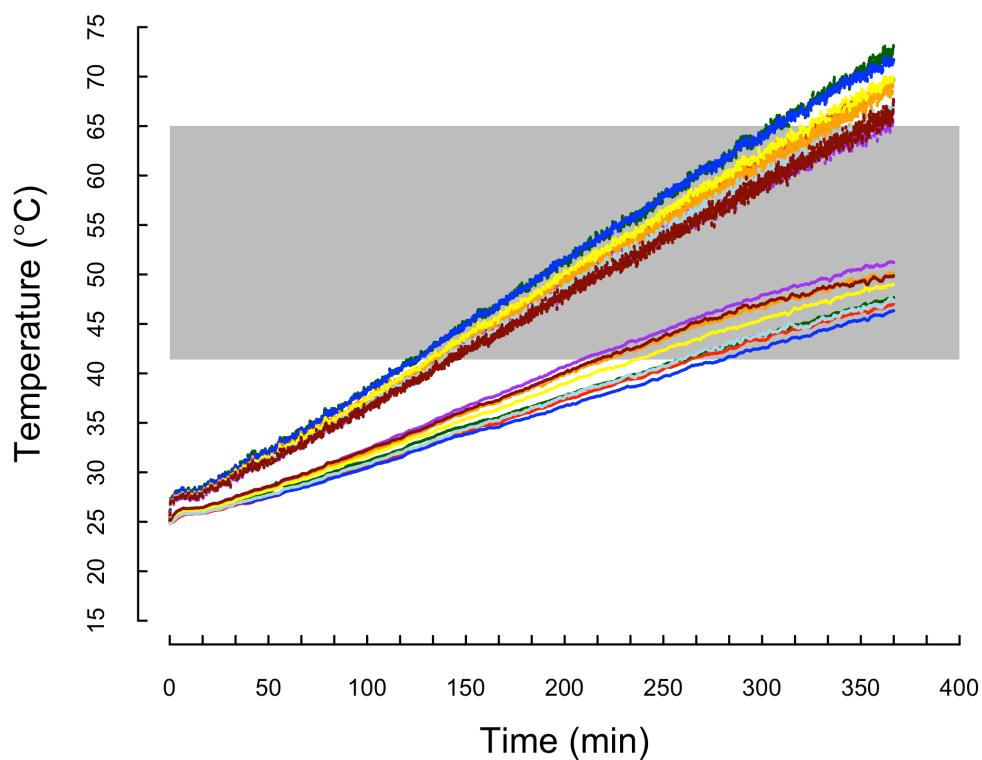


Fig. S4. Bumble bee core temperature (solid lines) tracks vial temperatures (dashed lines) for eight representative individuals, when ramped from ~20 °C (room temperature) to ~75 °C at 0.1 °C min⁻¹. Colors indicate each bee core temperature and its corresponding vial temperature. Grey region represents the range of CT_{max} values measured for this nest (see text for details).

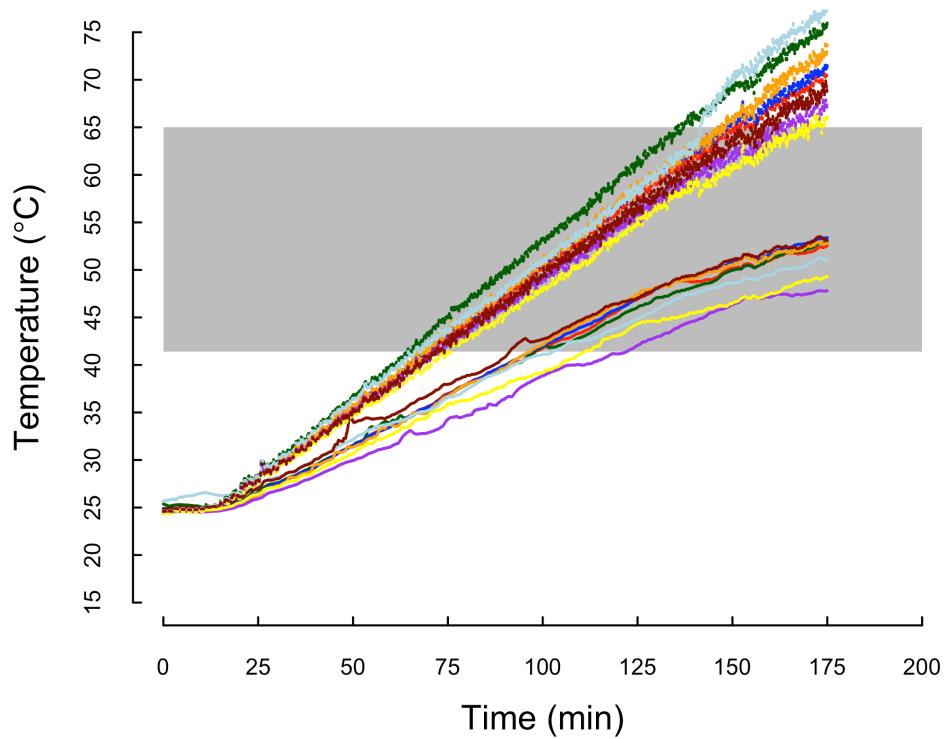


Fig. S5. Bumble bee core temperature (solid lines) tracks vial temperatures (dashed lines) for eight representative individuals, when ramped from ~20 °C (room temperature) to ~75 °C at 0.25 °C min⁻¹. Colors indicate each bee core temperature and its corresponding vial temperature. Grey region represents the range of CT_{max} values measured for this nest (see text for details).

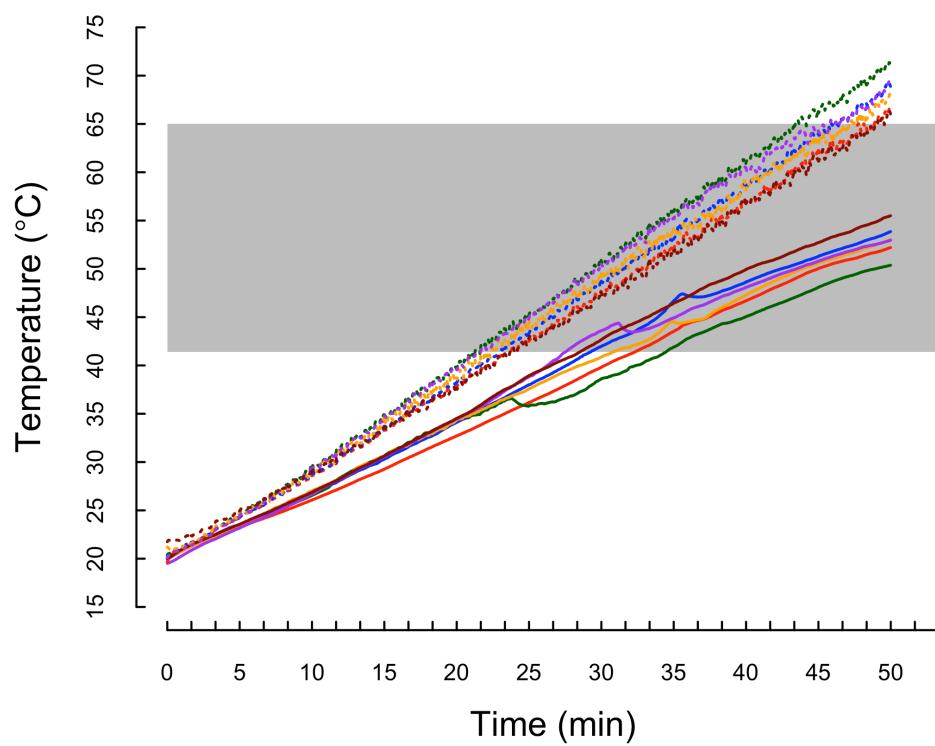


Fig. S6. Bumble bee core temperature (solid lines) tracks vial temperatures (dashed lines) for eight representative individuals, when ramped from ~20 °C (room temperature) to ~75 °C at 1.0 °C min⁻¹. Colors indicate each bee core temperature and its corresponding vial temperature. Grey region represents the range of CT_{max} values measured for this nest (see text for details).



Movie 1



Movie 2