Elephant Figures

27/12/17
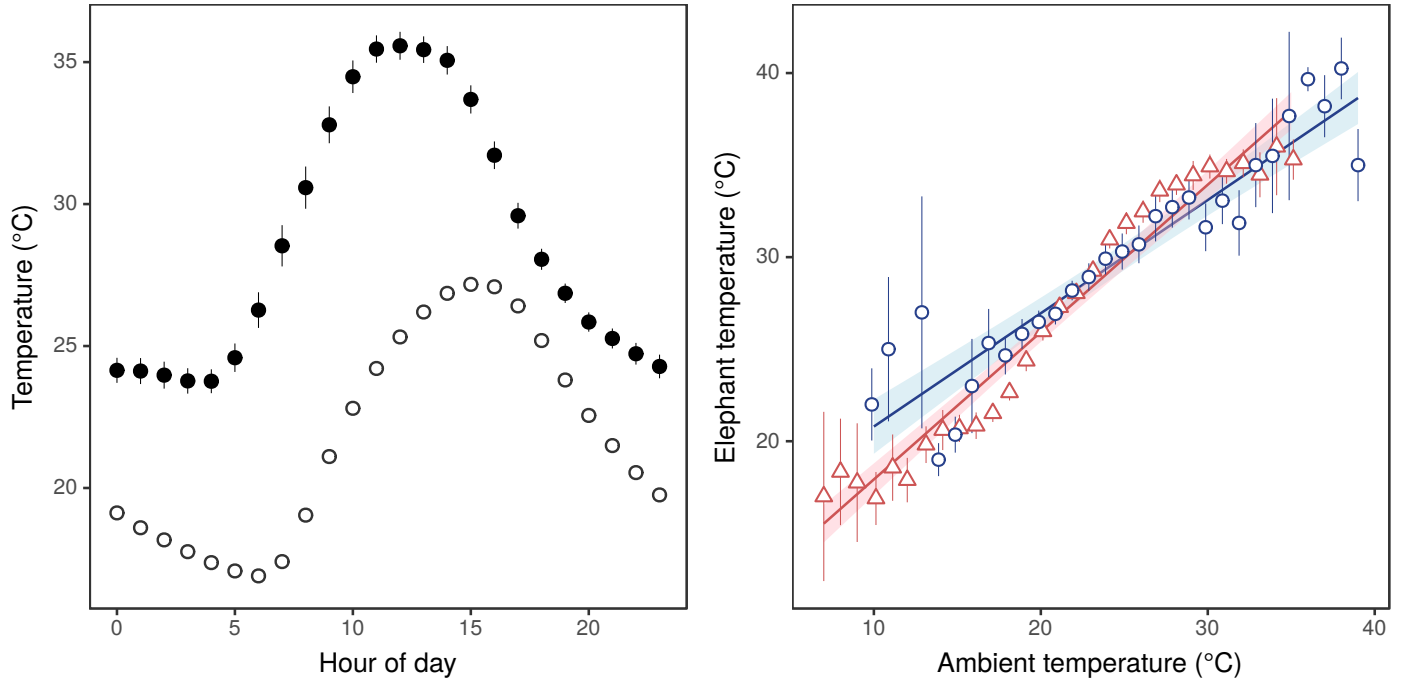

Figure 1: A: Mean thermochron temperature (filled circles) tracks meanambient temperature (open circles) through the day. Vertical lineranges represent 95% confidence intervals. B: Mean thermochron temperature (points) at measured ambient temperature, and GLM fits (lines) in each season (cool-dry: blue circles & lines, hot-wet: red triangles & lines). Vertical lineranges and shaded areas (coloured by season) indicate 95% confidence intervals at each point.
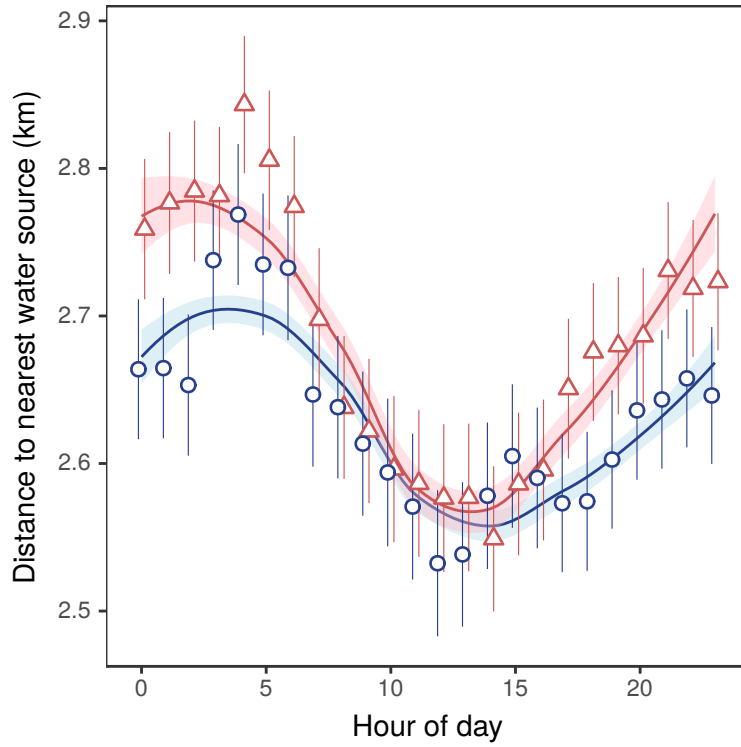
Figure 2: GAMM fit (lines) and mean distance to the nearest water source in each season (point) through the day in each season (cool-dry: blue circles & lines, hot-wet: red triangles & lines). Vertical lineranges and shaded areas (coloured by season) indicate 95% confidence intervals at each point.
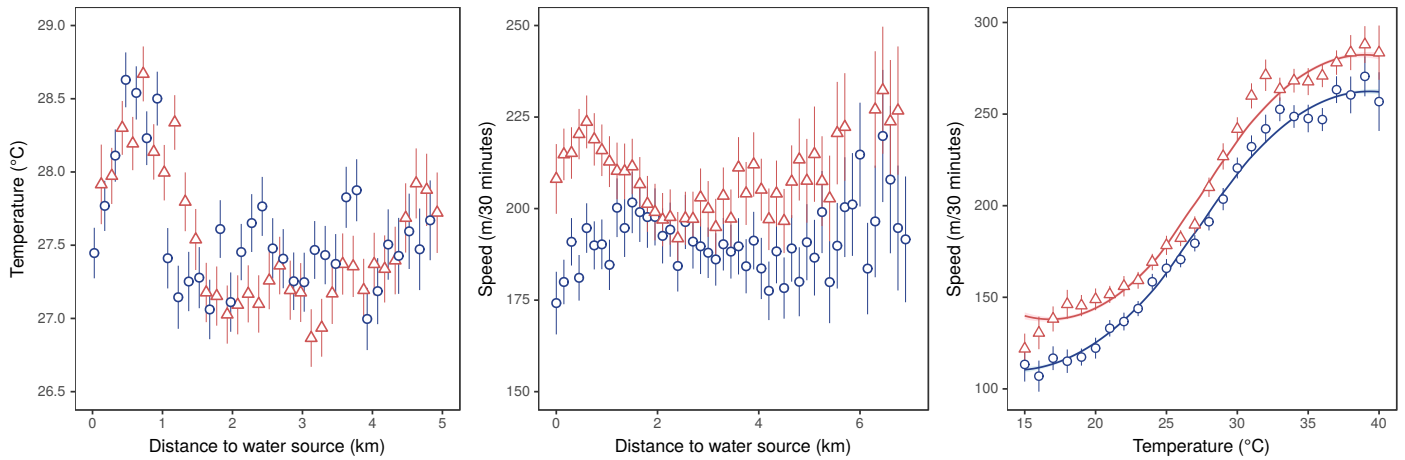

Figure 3: Elephant speed at the landscape level is mediated by temperature. A: Mean elephant temperature (points) at 150m distance intervals from the nearest water source in each season (cool-dry: blue circles, hot-wet: red triangles). Vertical lineranges (coloured by season) represent 95% confidence intervals. B: Mean speed (distance covered in 30 minutes) at 150m distance intervals from the nearest water source in each season (points & lineranges, as prev.). C: Mean steplength at 1°C temperature intervals in each season (points & lineranges, as prev.). GAMM fit (lines) and fit error intervals (shaded areas) are shown coloured by season.
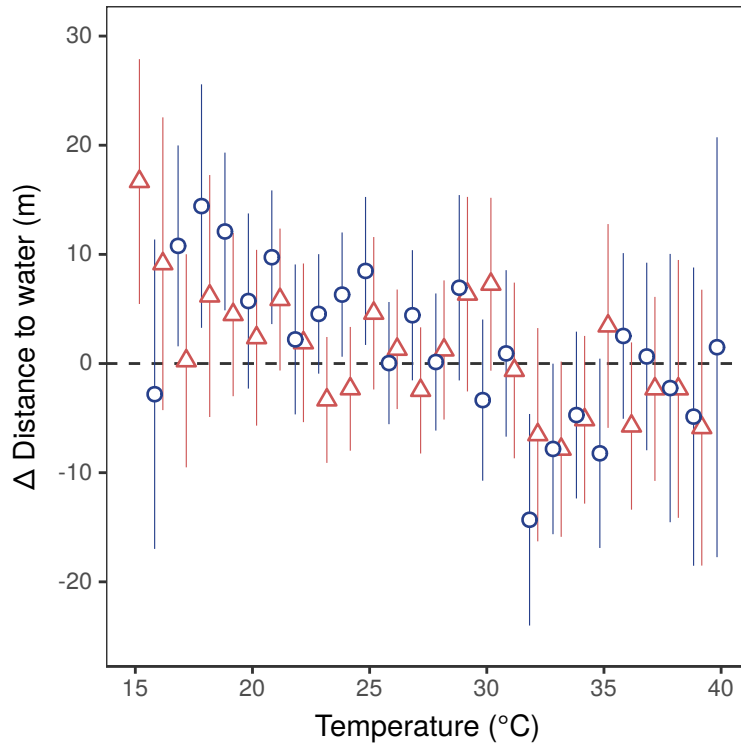
Figure 4: Mean change in distance to water sources (points) at degree temperature intervals in each season (cool-dry: blue circles, hot-wet: red triangles). Vertical lineranges (coloured by season) indicate 95% confidence intervals at each point.
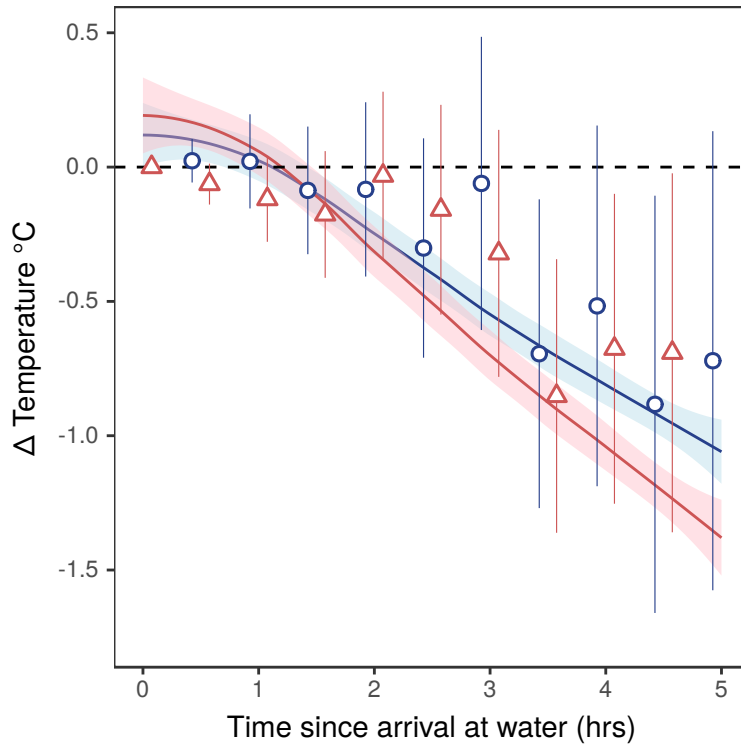

Figure 5: Mean change in temperature (points) and model fits (lines) at half hour intervals following arrival to water in each season (cool-dry: blue circles & line, hot-wet: red triangles & line). Vertical lineranges and shaded areas (coloured by season) indicate 95% confidence intervals at each point.
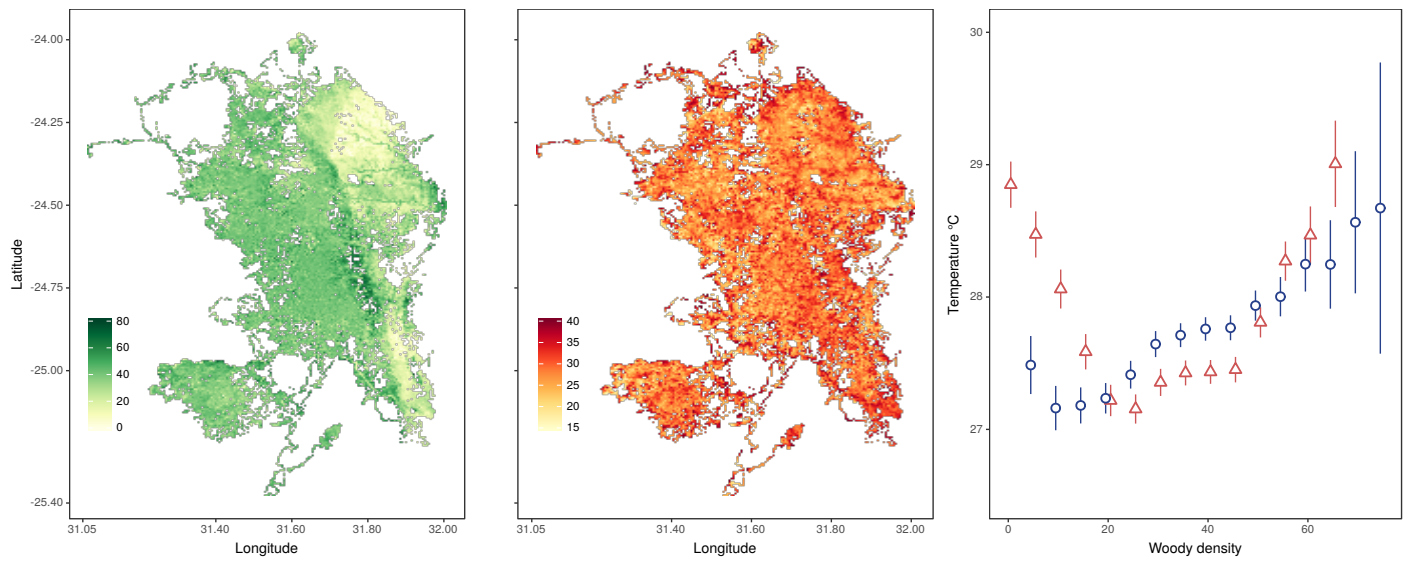
Figure 6: Supplementary material: A. Woody density, and B. Elephant temperature at relocation sites. Values shown are 0.01 degree pooled means. C. Mean elephant temperatures at woody densities in increments of 5, separated by season (cool dry: blue circles, hot wet: red triangles), showing 95% confidence intervals (lineranges coloured by season.)