**Figure S4**. Results of the posterior predictive checks. In all plots, the dashed red line indicates the value of the corresponding metric in the original data, while the black line reports the kernel density of the same metric across 1,000 simulated datasets. a) Activity budget, expressed as the proportion of time spent in each behavioural state (1-5); b) mean duration of stays (i.e., the number of consecutive one-minute steps) per state; c) standard deviation of the duration of stays per state; d) mean, standard deviation and overall kernel density (black: simulated data; red: original data) of the number of behavioural transitions per segment, corrected by the length of each segment.







