



Figure A3. Age effects on diurnal and nocturnal activity levels. Boxplots show residuals from models on activity levels plotted against age group (first year or older). Diurnal activity is shown for all four seasons. Nocturnal activity is shown for all birds in summer and winter, but during migration seasons, only for birds that are identified as migrants using changepoint analysis. Left panel: data on two measures of *Zugunruhe* level (peak and mean) for autumn (top) and spring (bottom). Right panel: activity data for all birds during autumn and spring (diurnal only), and during winter and summer (diurnal and nocturnal). A blue asterisk indicates significant differences between the age groups.