

Exploring Correlation in Movement Parameters

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Autocorrelation of SL, TA, and TAA

Autocorrelation is common in the time series of animal trajectories. This document shows trends in autocorrelation of individual movement parameters at different sections of tracks (filtered for only 1 h time steps) for each ID. This is shown at different scales as well (lag.max = 50 or nob).

ID 1

There are 6500 total observations in this dataset that have 1 h time steps. This will be split into four equal sections.

SL

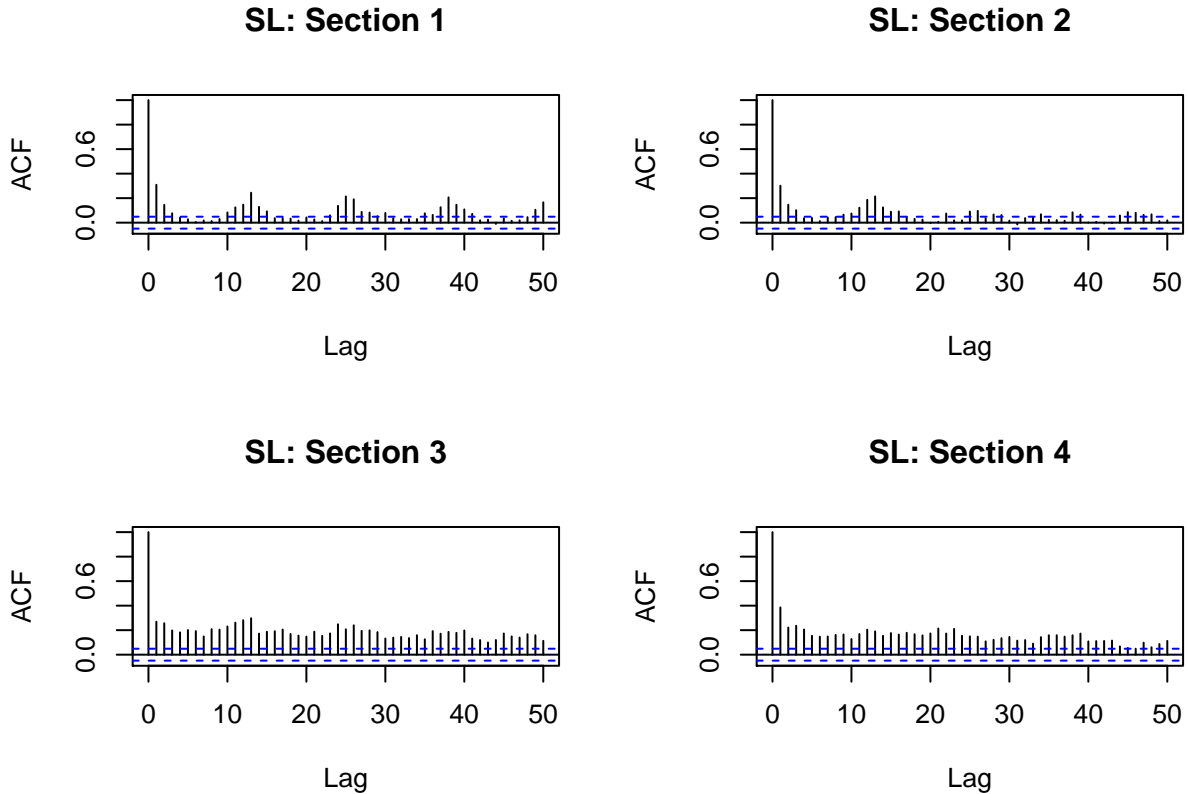


Figure 1: Autocorr of SL with a max lag of 50 observations.

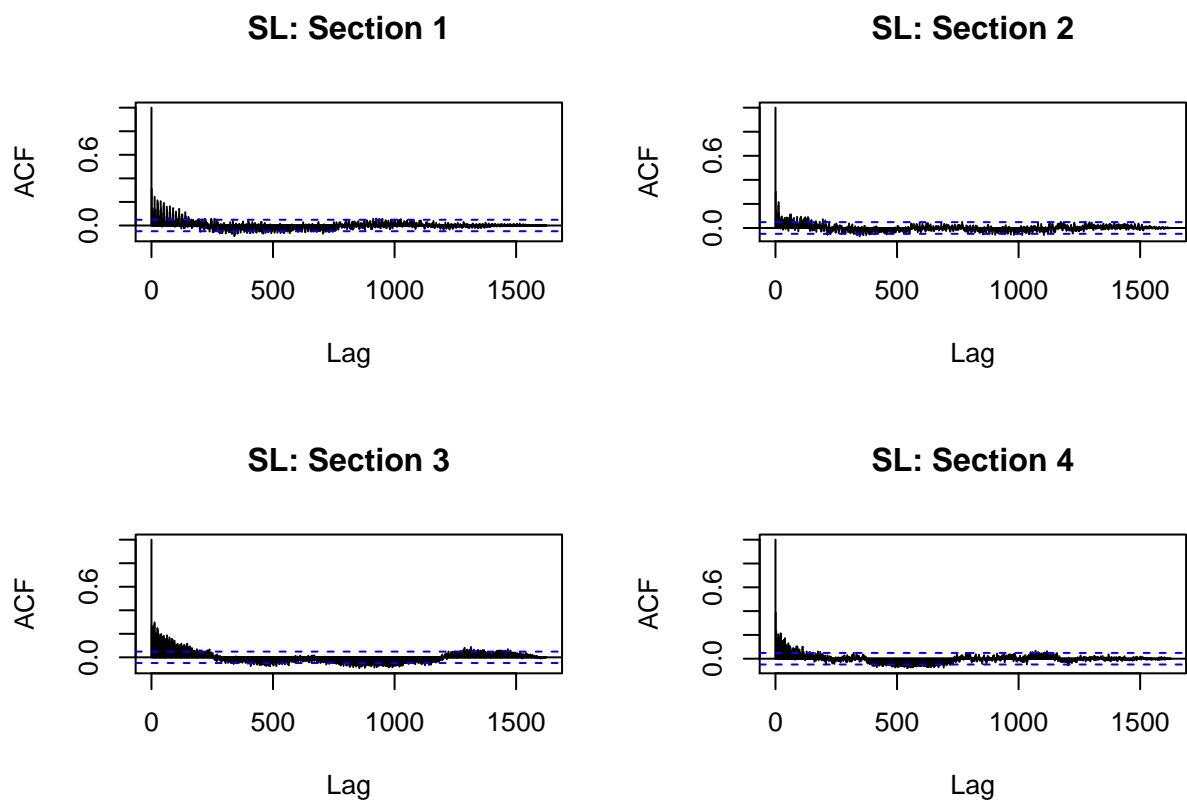


Figure 2: Autocorr of SL with a max lag of 1625 observations.

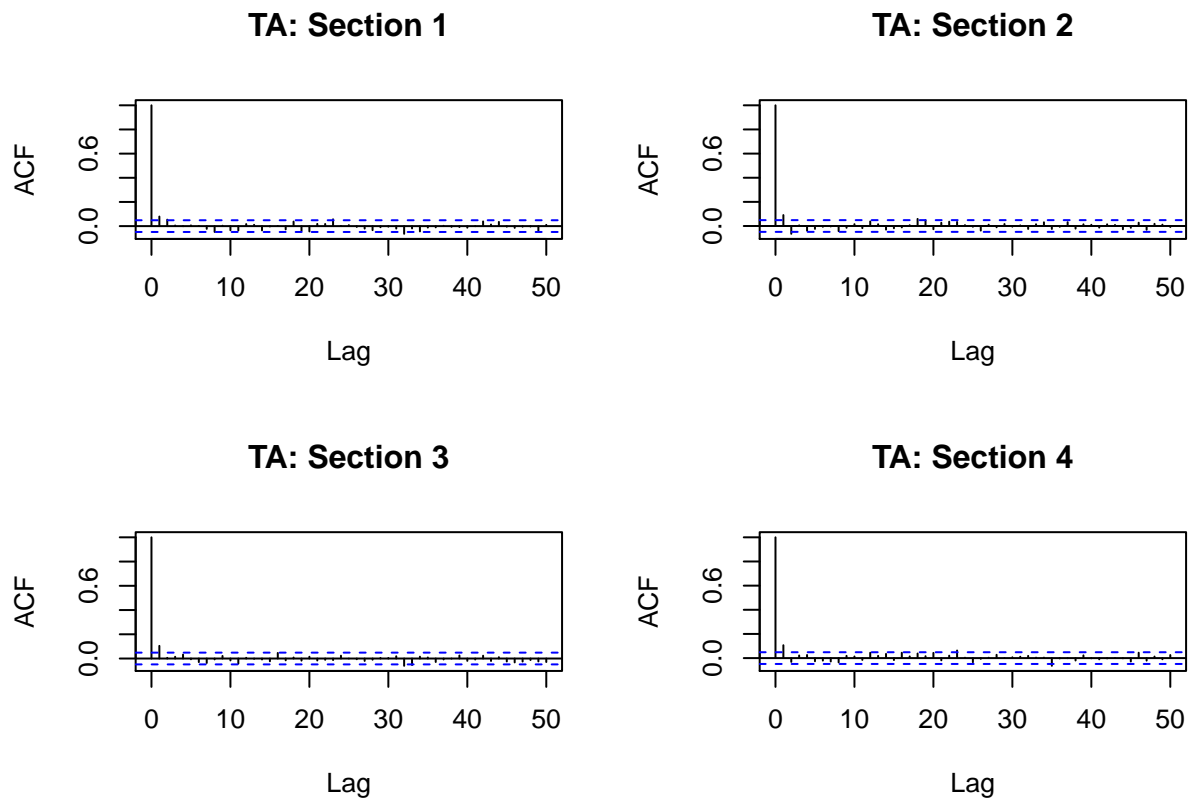


Figure 3: Autocorr of TA with a max lag of 50 observations.

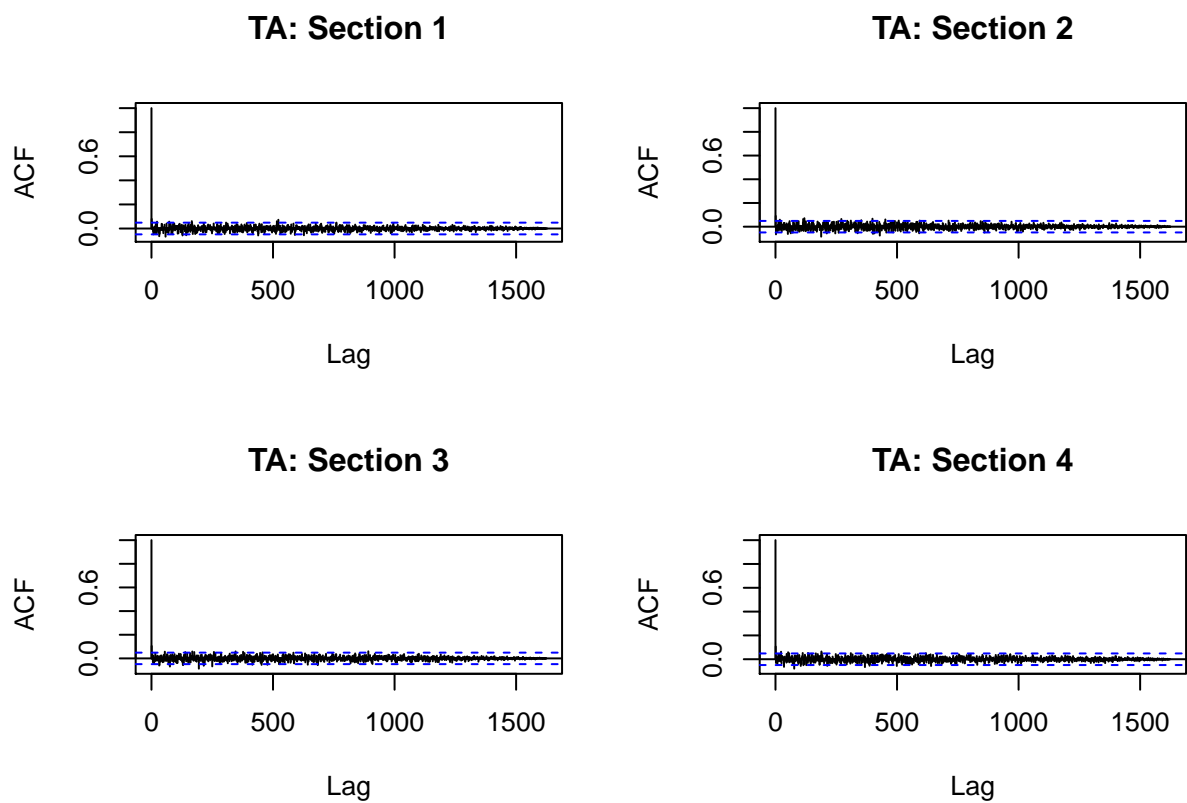


Figure 4: Autocorr of TA with a max lag of 1625 observations.

TA

TAA

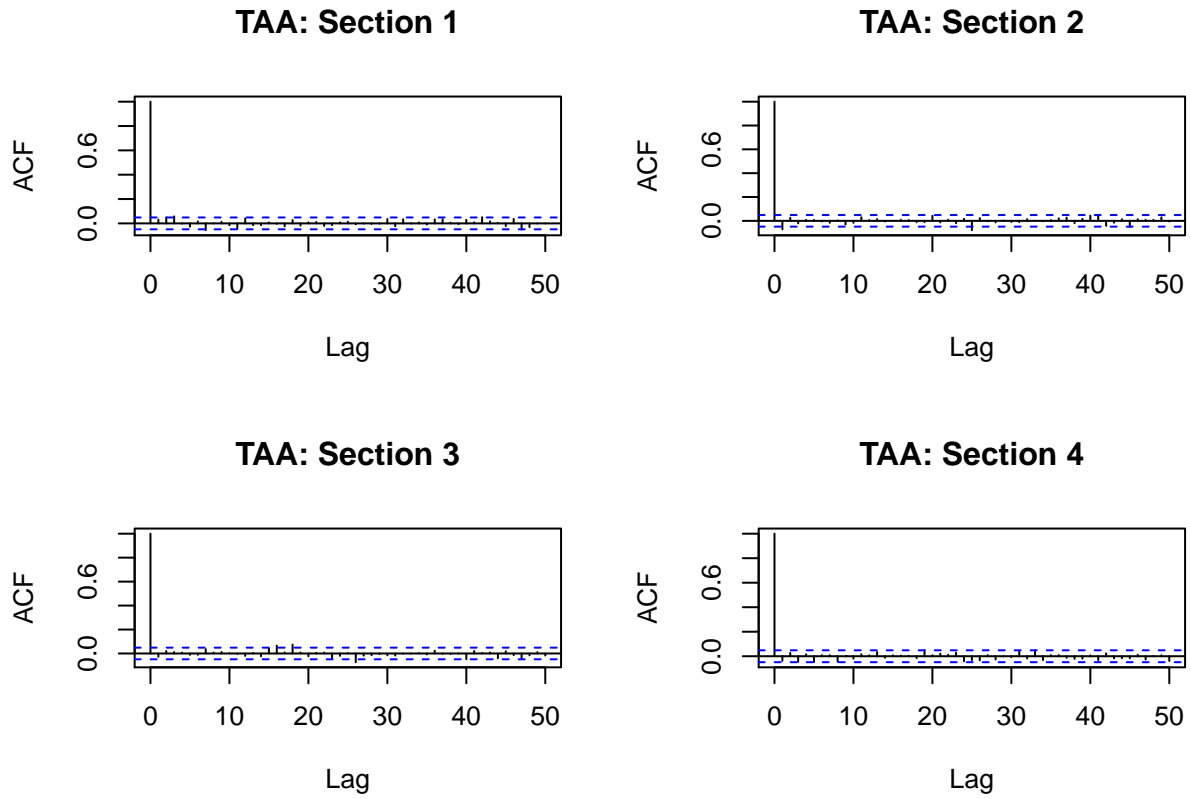


Figure 5: Autocorr of TA with a max lag of 50 observations.

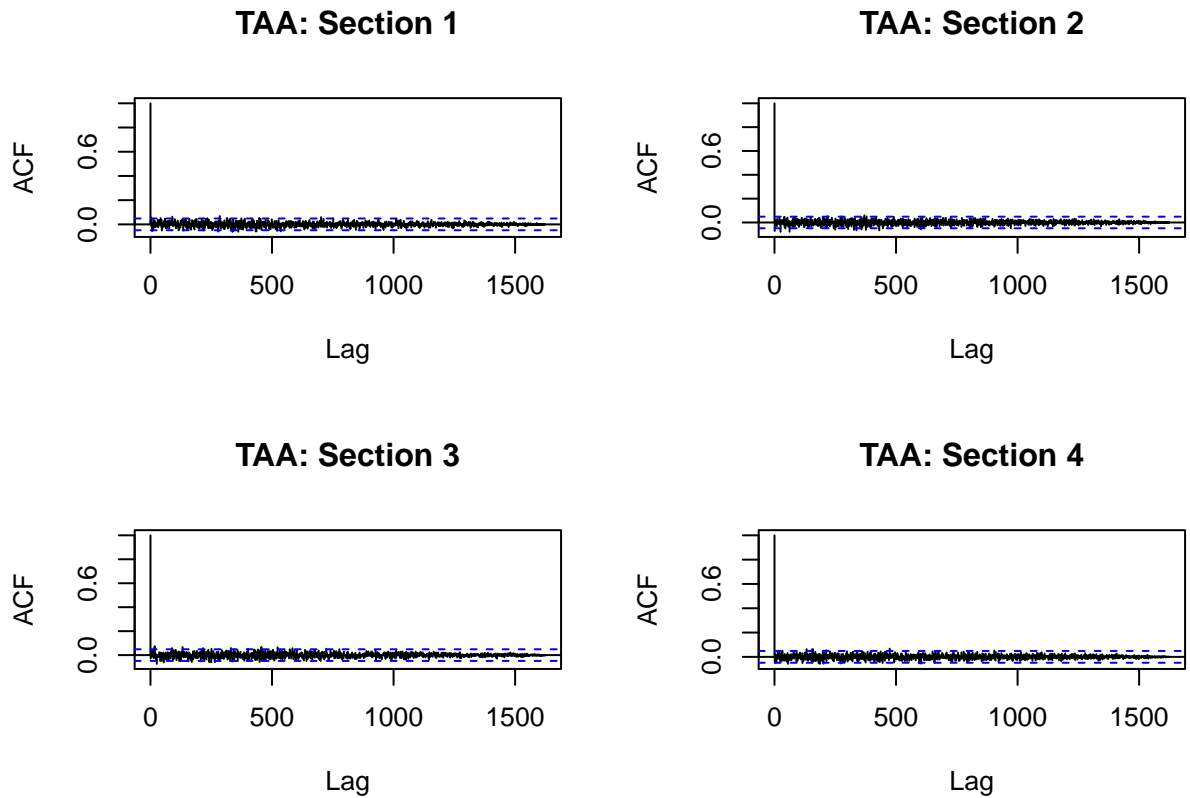


Figure 6: Autocorr of TA with a max lag of 1625 observations.