

Appendix 4. Mantel's test correlogram relates the temporal structure of the 44-year period with the correlation of the species composition among bird lists. For the X-axis the temporal distance between lists has units of years. By using the correlogram, we determined the maximum number of years among bird lists with a direct-positive correlation. In order to implement the correlogram we use the Vegan package (Oksanen 2017) in the software R (R Core Team 2020). For each separation time among bird lists in the correlogram, their significance (dark squares) was approximated using a Bonferroni correction by 16,000 permutations ($\alpha= 0.05$).

