**Atmospheric Transport Reveals Grass Pollen Dispersion Distances**

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**Supplementary Figure 1.** Daily concentrations of grass pollen from two locations (St Johns and Lakeside) during the 2018 season in Worcester.



**Supplementary Figure 2.** Daily concentrations of grass pollen from two locations (St Johns and Lakeside) during the 2019 season in Worcester.



**Supplementary Figure 3.** STL Decomposition for the 95% overlapping period of bi-hourly grass pollen concentrations for St Johns during the 2018 season in Worcester. The x-axis reflects the duration of the 95% overlapping period, which varies between years.



**Supplementary Figure 4.** STL Decomposition for the 95% overlapping period of bi-hourly grass pollen concentrations for Lakeside during the 2018 season in Worcester. The x-axis reflects the duration of the 95% overlapping period, which varies between years.



**Supplementary Figure 5.** STL Decomposition for the 95% overlapping period of bi-hourly grass pollen concentrations for St Johns during the 2019 season in Worcester. The x-axis reflects the duration of the 95% overlapping period, which varies between years.



**Supplementary Figure 6.** STL Decomposition for the 95% overlapping period of bi-hourly grass pollen concentrations for Lakeside during the 2019 season in Worcester. The x-axis reflects the duration of the 95% overlapping period, which varies between years.



**Supplementary Figure 7.** Comparison of mean daily grass pollen concentrations for St Johns and Lakeside, averaged between all bi-hourly and years values.



**Supplementary Figure 8.** Comparison of mean diurnal grass pollen concentrations for St Johns and Lakeside, averaged between all daily and yearly values.



**Supplementary Figure 9.** Comparison of mean year grass pollen concentrations for St Johns and Lakeside, averaged between all bi-hourly and daily values.