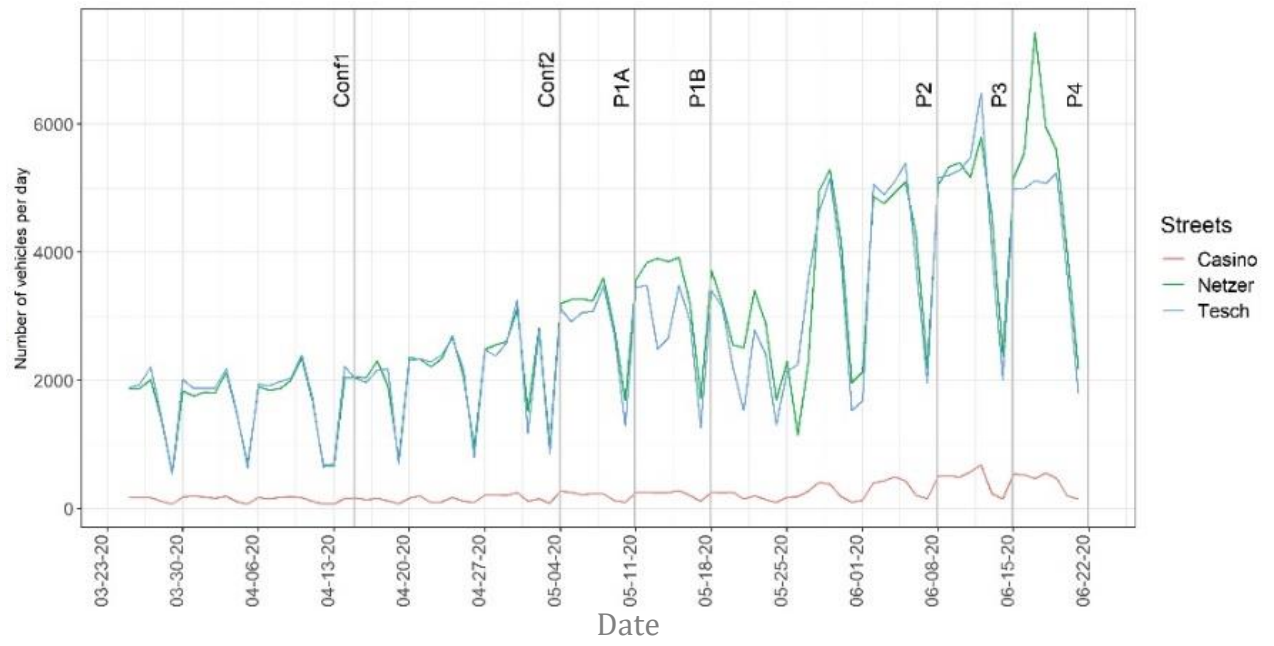


# Supplementary material

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Table S1. Statistics of PM<sub>2.5</sub> concentrations (µg/m<sup>3</sup>) for each period.

		Conf1	Conf2	P1A	P1B	P2	P3	P4
Casino	Min.	1.1	3.6	3.3	3.1	1.9	2.4	1.1
	25%	5.3	6.6	4.0	4.2	2.9	4.1	1.9
	Median	9.1	7.6	4.5	5.4	4.4	5.9	2.9
	Mean	<b>11.5</b>	<b>8.2</b>	<b>6.0</b>	<b>6.7</b>	<b>5.1</b>	<b>8.6</b>	<b>2.8</b>
	75%	16.3	9.2	7.2	9.5	6.4	13.7	3.7
	Max.	49.3	23.4	11.7	14.0	14.5	19.5	5.6
	NA	18	0	31	0	1	0	0
Netzer	Min.	1.1	3.4	1.8	2.8	1.8	2.3	1.8
	25%	4.8	6.5	5.8	4.9	3.0	4.5	3.0
	Median	8.4	7.6	9.5	7.1	4.6	7.1	3.9
	Mean	<b>10.7</b>	<b>8.4</b>	<b>9.5</b>	<b>7.7</b>	<b>5.9</b>	<b>9.1</b>	<b>4.1</b>
	75%	15.7	9.3	12.3	10.0	7.0	13.9	4.6
	Max.	47.7	24.9	25.1	18.7	41.4	22.1	8.1
	NA	22	5	18	10	0	2	0
Tesch	Min.	1.2	2.8	2.0	3.9	2.0	2.1	1.1
	25%	4.5	5.5	3.5	4.9	2.9	3.7	1.7
	Median	8.5	7.3	4.7	6.2	4.6	6.1	2.5
	Mean	<b>10.3</b>	<b>7.7</b>	<b>6.9</b>	<b>7.1</b>	<b>5.2</b>	<b>8.3</b>	<b>2.6</b>
	75%	14.5	8.9	9.9	9.3	6.4	13.1	3.2
	Max.	42.0	23.4	18.7	12.3	13.4	18.5	5.5
	NA	22	1	18	19	1	2	0
Habay	Min.	0.0	2.0	0.0	1.0	0.0	0.0	0.0
	25%	5.0	6.0	2.0	2.0	1.0	2.0	0.0
	Median	11.0	7.0	6.0	4.0	3.0	6.5	0.0
	Mean	<b>12.2</b>	<b>7.0</b>	<b>5.6</b>	<b>6.0</b>	<b>3.5</b>	<b>7.7</b>	<b>1.1</b>
	75%	18.0	8.0	7.0	7.8	6.0	13.8	2.0
	Max.	36.0	20.0	16.0	17.0	11.0	27.0	5.0
	NA	6	0	0	0	4	0	0



**Figure S1.** Traffic evolution over time for the three streets: Casino, Netzer and Tesch. The number of vehicles corresponds to the sum per day for each street.

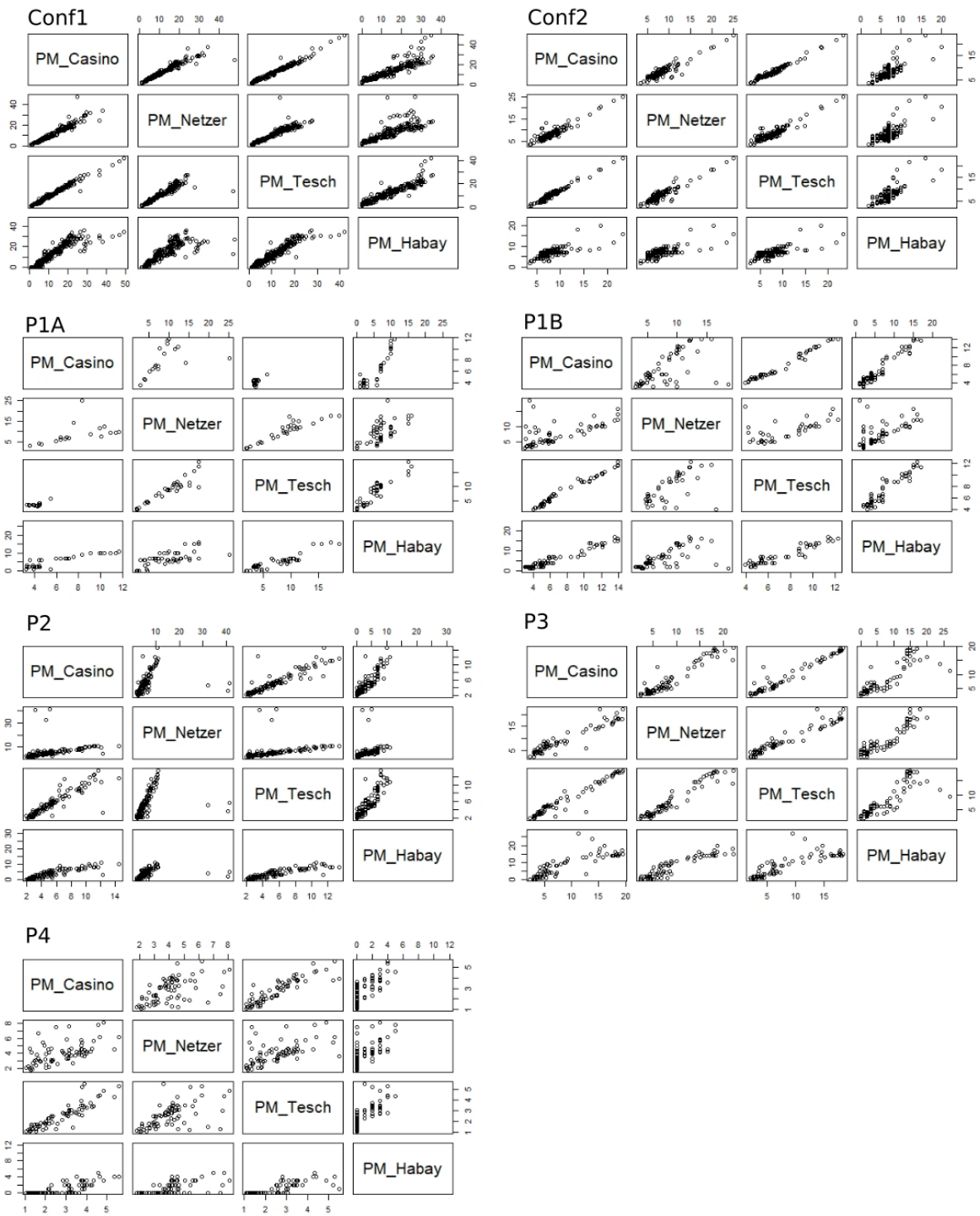
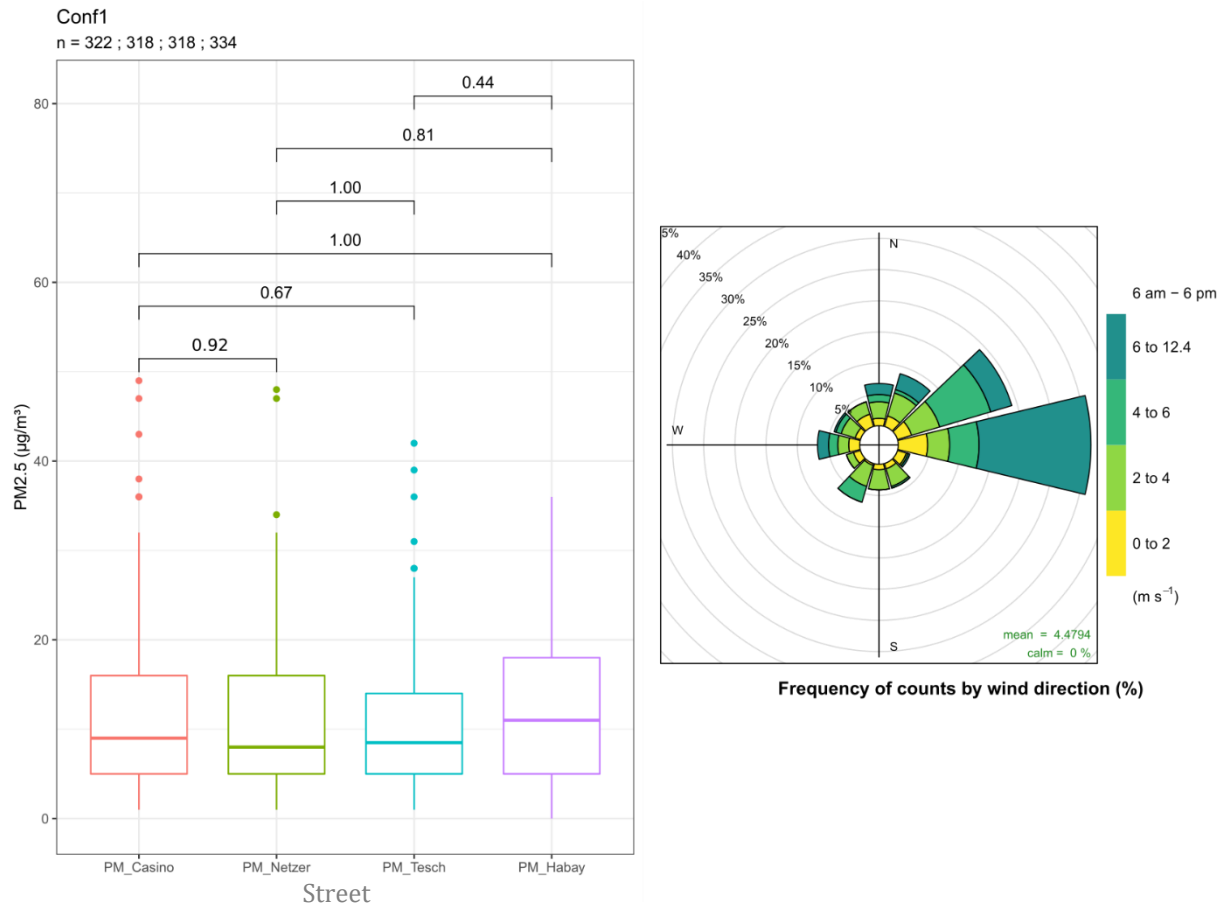
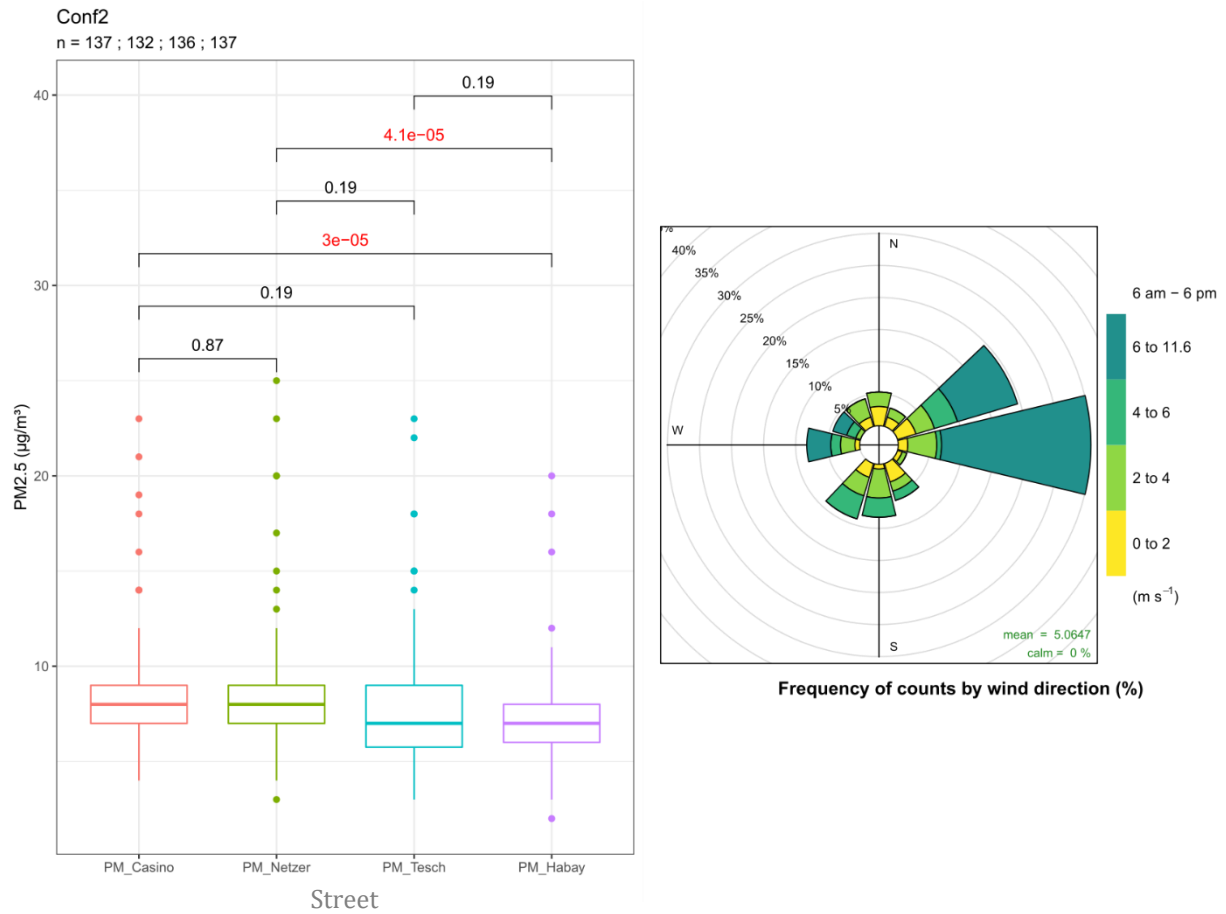


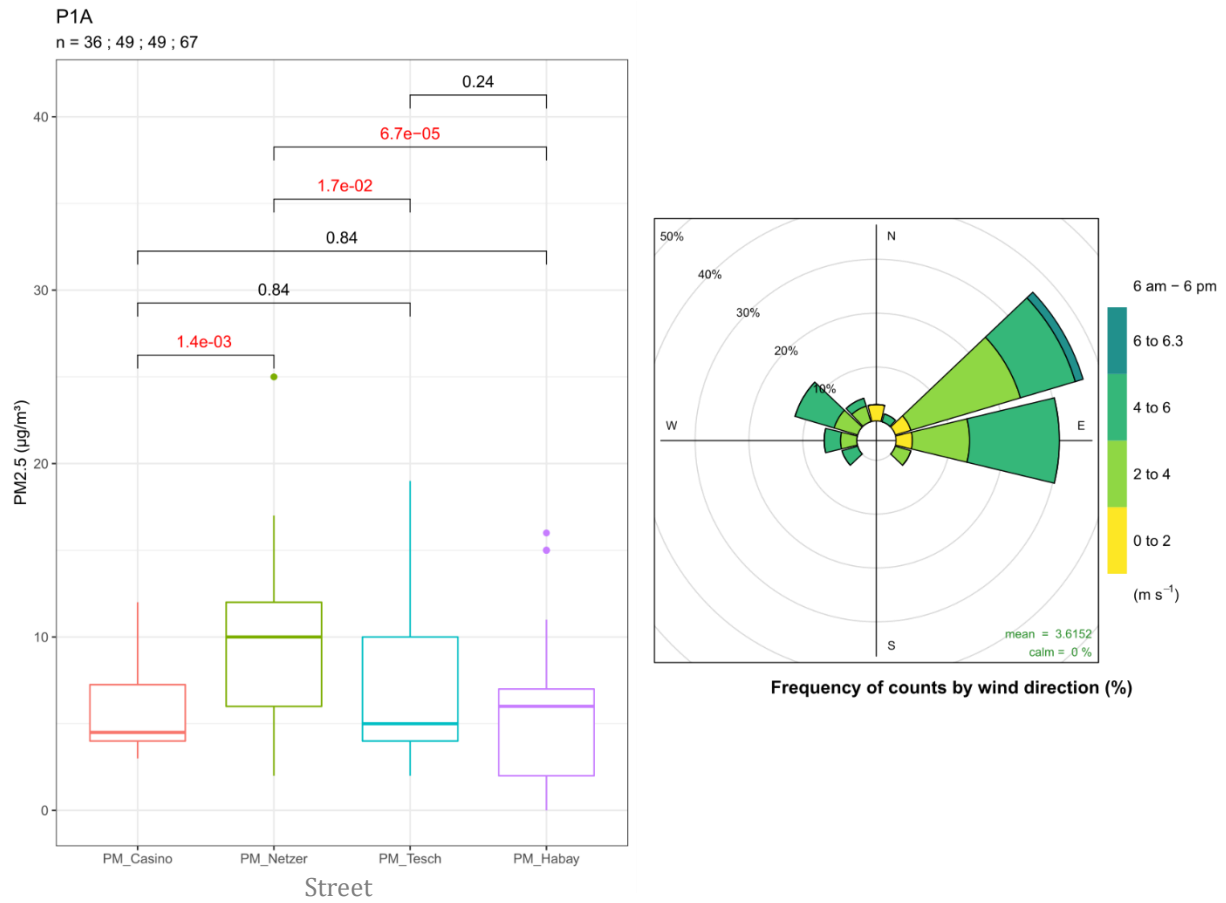
Figure S2. Comparison among PM<sub>2.5</sub> concentrations (µg/m<sup>3</sup>) of each site and by period.



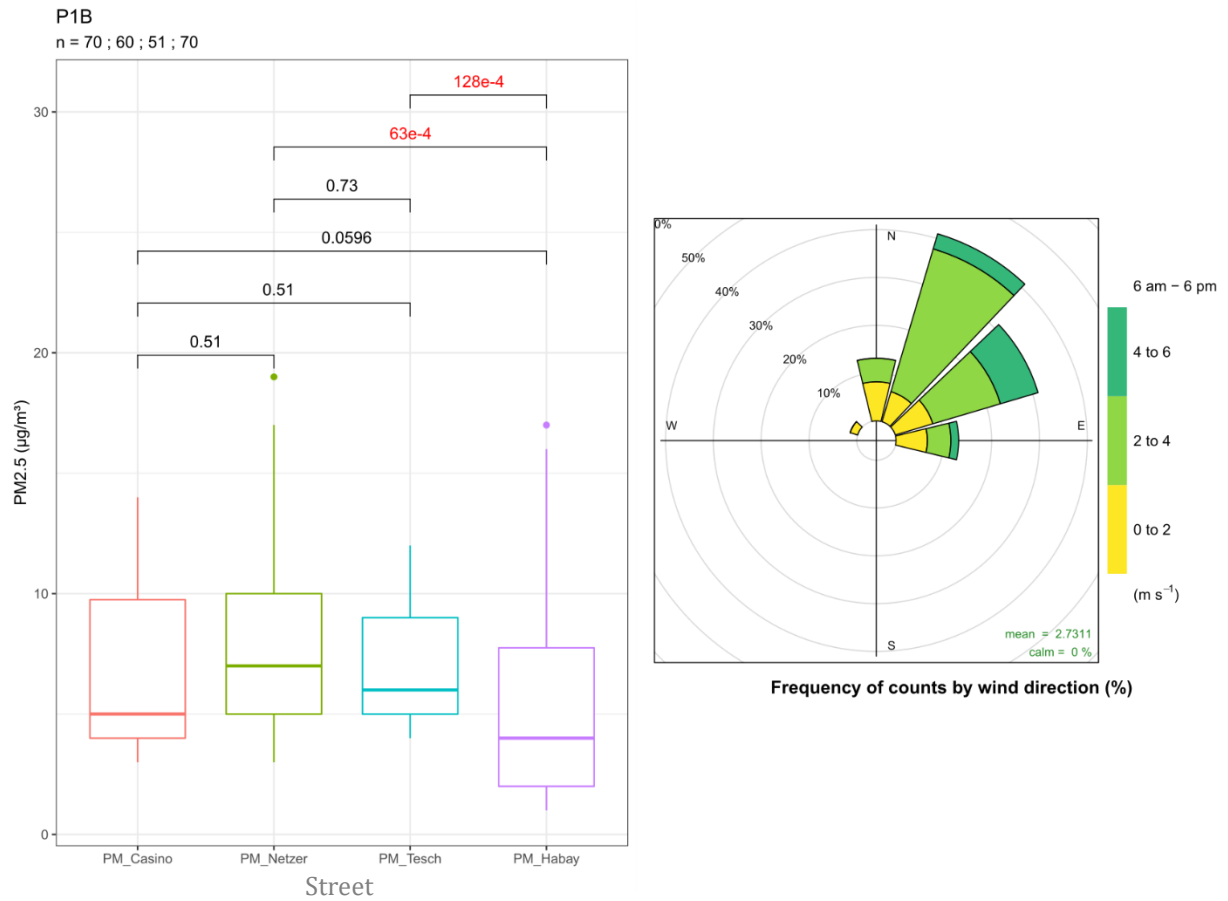
**Figure S3.** Comparison among the three streets and Habay for Conf1.  $n$  = number of observations and order =  $x$ -axis labels. The  $p$ -values are the results of a pairwise Mann–Whitney Wilcoxon test with Holm correction. The wind rose shows the wind directions and speeds for Conf1 from 06:00 to 18:00 (data from the Sainte-Ode at 30 m height).



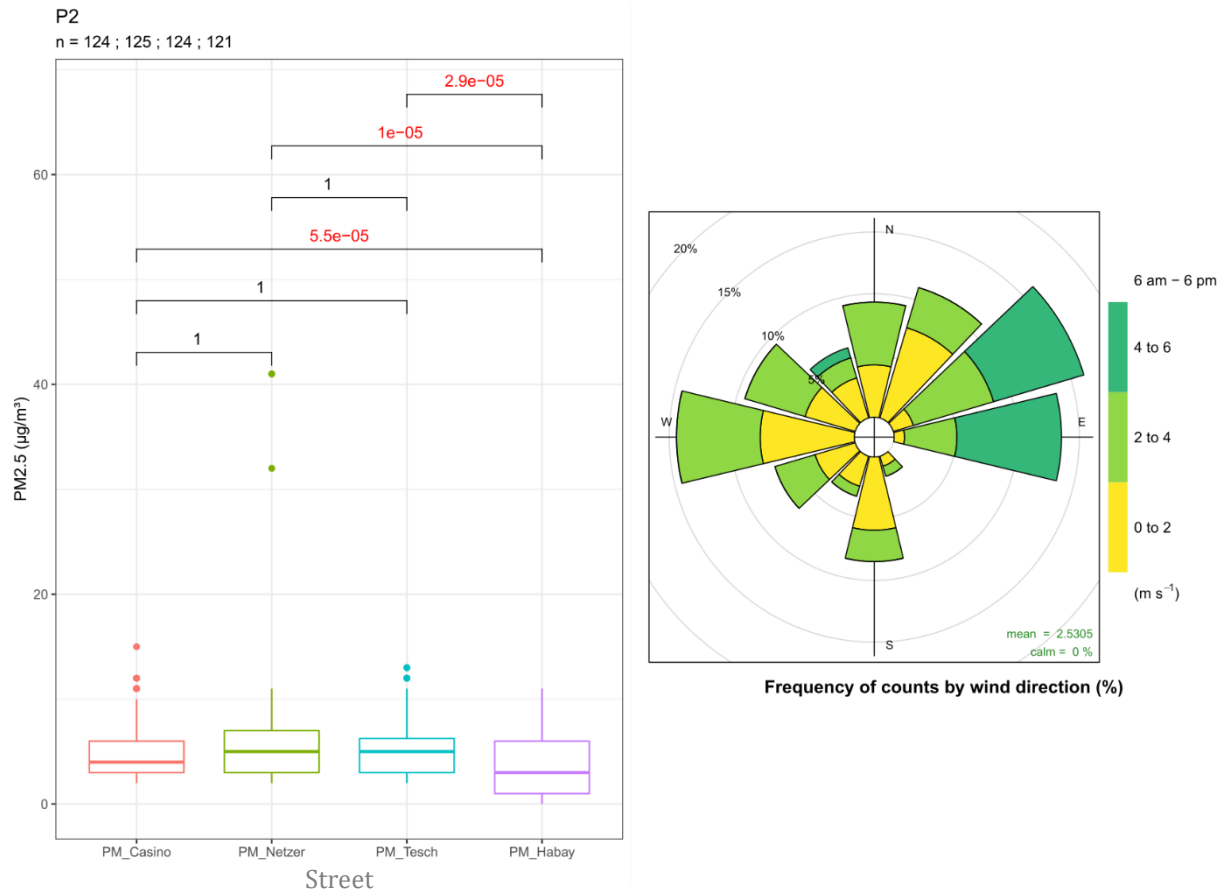
**Figure S4.** Comparison among the three streets and Habay for Conf2.  $n$  = number of observations and order =  $x$ -axis labels. The  $p$ -values are the results of a pairwise Mann–Whitney Wilcoxon test with Holm correction. The wind rose shows the wind directions and speeds for Conf2 from 06:00 to 18:00 (data from the Sainte-Ode at 30 m height).



**Figure S5.** Comparison among the three streets and Habay for P1A.  $n$  = number of observations and order =  $x$ -axis labels. The  $p$ -values are the results of a pairwise Mann–Whitney Wilcoxon test with Holm correction. The wind rose shows the wind directions and speeds for P1A from 06:00 to 18:00 (data from the Sainte-Ode at 30 m height).

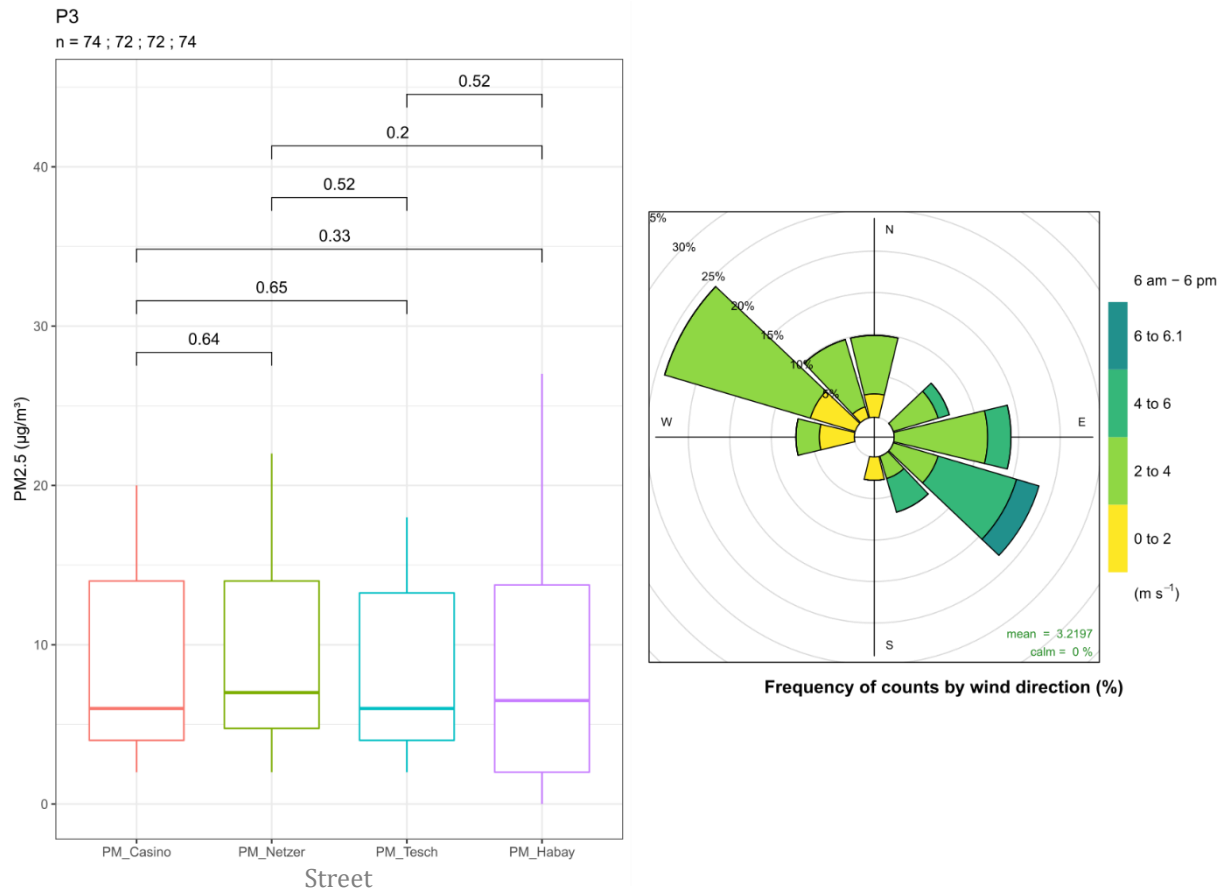


**Figure S6.** Comparison among the three streets and Habay for P1B.  $n$  = number of observations and order =  $x$ -axis labels. The  $p$ -values are the results of a pairwise Mann–Whitney Wilcoxon test with Holm correction. The wind rose shows the wind directions and speeds for P1B from 6:00 to 18:00 (data from the Sainte-Ode at 30 m height).

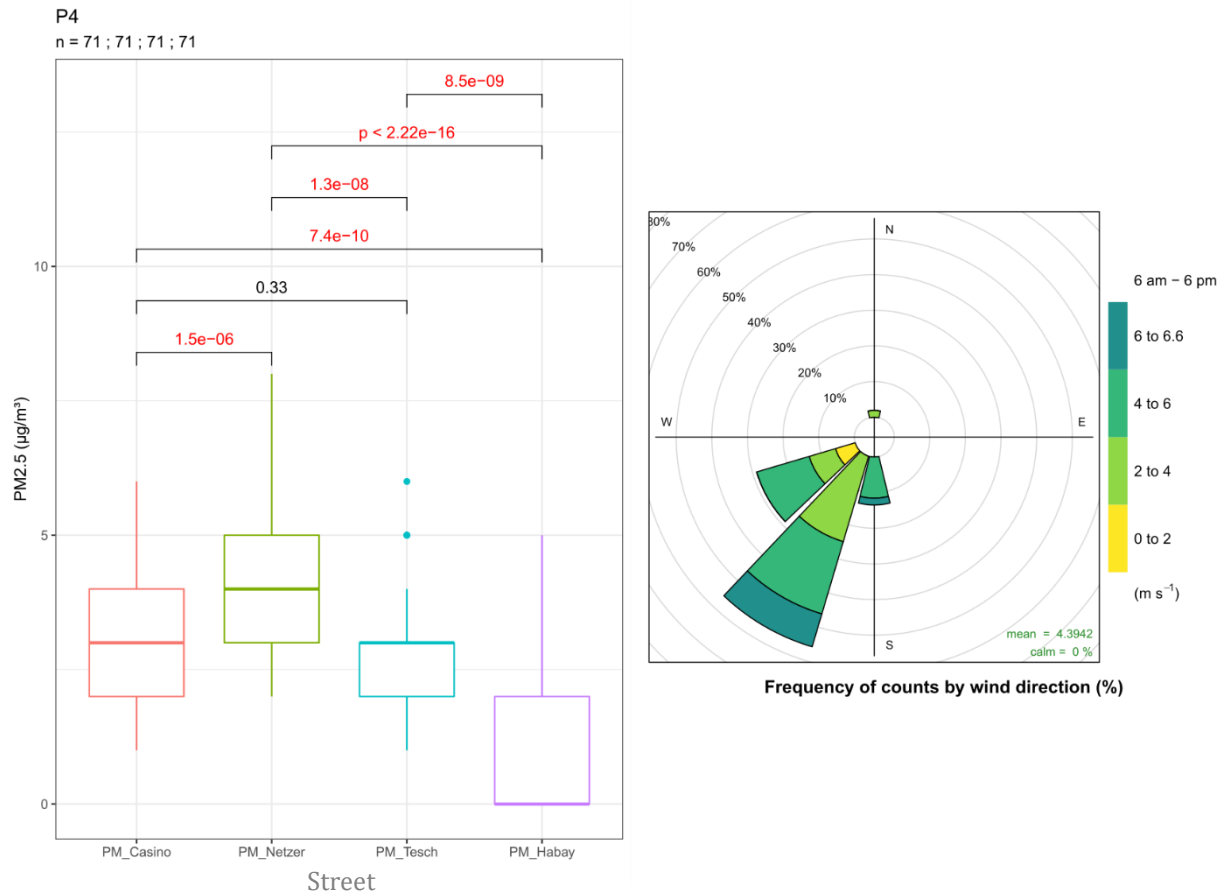


**Figure S7.** Comparison among the three streets and Habay for P2. n = number of observations and order = x-axis labels. The  $p$ -values are the results of a pairwise Mann–Whitney Wilcoxon test with Holm correction. The wind rose shows the wind directions and speeds for P2 from 06:00 to 18:00 (data from the Sainte-Ode at 30 m height)

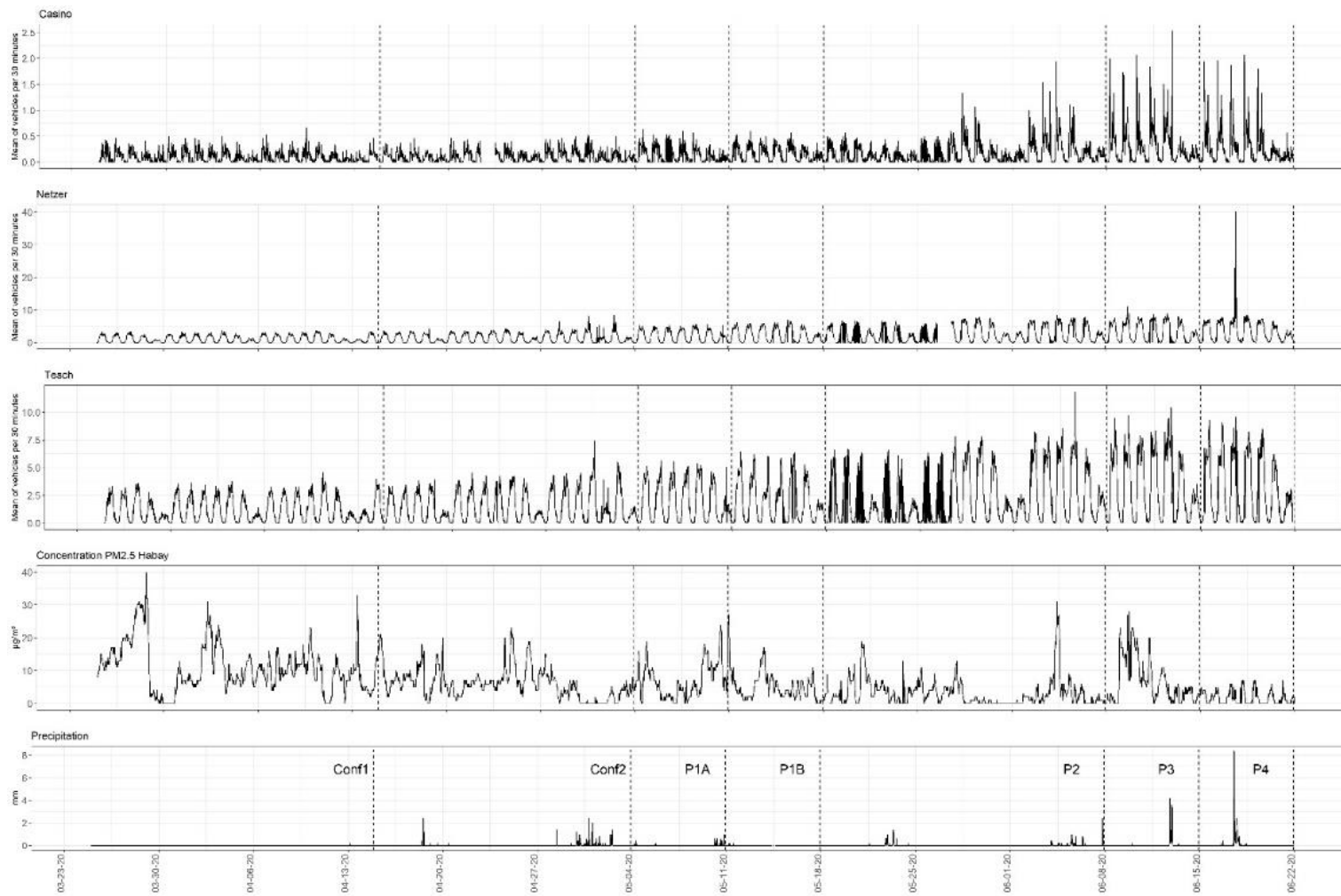




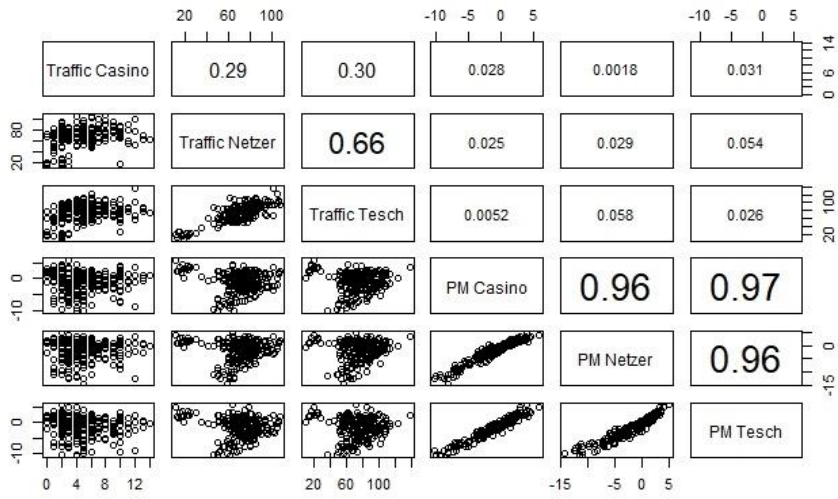
**Figure S8.** Comparison among the three streets and Habay for P3.  $n$  = number of observations and order =  $x$ -axis labels. The  $p$ -values are the results of a pairwise Mann–Whitney Wilcoxon test with Holm correction. The wind rose shows the wind directions and speeds for P3 from 06:00 to 18:00 (data from the Sainte-Ode at 30 m height)



**Figure S9.** Comparison among the three streets and Habay for P4. n = number of observations and order = x-axis labels. The  $p$ -values are the results of a pairwise Mann-Whitney Wilcoxon test with Holm correction. The wind rose shows the wind directions and speeds for P4 from 06:00 to 18:00 (data from the Sainte-Ode at 30 m height)



**Figure S10.** Time plots of the mean of vehicles per 30 minutes, the concentration of  $\text{PM}_{2.5}$  measured at Habay-la-Vieille and the rain quantity measure in mm. Each period is represented by a vertical dash line.



**Figure S11.** Correlation between PM<sub>2.5</sub> concentrations in  $\mu\text{g}/\text{m}^3$  (concentration in the street minus the background concentration) and the traffic level for each site (sum of vehicles/30 minutes). The Spearman coefficient is shown in the upper panel.