Supplementary material for *Design, deployment, and exploitation of a high-density CO_2 sensor network in Zürich City*

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Tables

Table 1: Mean and median CO_2 concentrations for 21 mid-cost sensor locations across Zürich City between July 2022 and April 2023. CO_2 concentrations are in ppm, represented in dry air, and the sites are ordered by their mean concentration.

Site	Site name	Sensor IDs	Mean	Median	Data capture (%)
brei	Birchwil Turm	4057	429.6	428.4	95.3
zhab	Albisgüetli	441	437.5	433.6	91.6
hard	Hardau II	4056	438.3	432.9	93.7
zhbr	Heubeeribüel	444	439.1	437.2	95.3
zhhf	Kantonales Labor Zürich	437	443.2	439.8	94.6
zhui	Universität Zürich Irchel	435	443.3	437.9	93.5
ztie	Tiefenbrunnen Wildbachstrasse	436	444.2	438.7	95.3
ztle	Letzigraben Telefonzentrale	438	446.1	439.8	95.3
zhwh	Wollishofen	431	446.5	441.4	95.3
zhsf	Stauffacherstrasse Werdplatz	446	447.4	440.7	95.3
zgub	Güterbahnhof	443	448.6	441.6	95.3
zubv	Bankenviertel Bleicherweg	442	449.2	443.3	94.9
zhhm	Hardturmstrasse Förrlibuck	440;445	449.3	441.6	94.1
zue	Zürich Kaserne	426	450.0	443.7	95.3
zsta	Stampfenbachstrasse	427	453.1	446.0	95.3
zhmi	Schule Milchbuck	430	454.9	447.7	63.3
zbas	Badenerstrasse Farbhof	432	456.7	449.8	61.7
reck	Reckenholz	432;439	456.8	442.6	90.7
zhrgn	Rosengartenstrasse	433	458.7	452.0	95.0
zsch	Schimmelstrasse	428	458.8	451.7	94.9
zjho	Limmattalstrasse Höngg	445	460.6	453.7	61.8

Figures

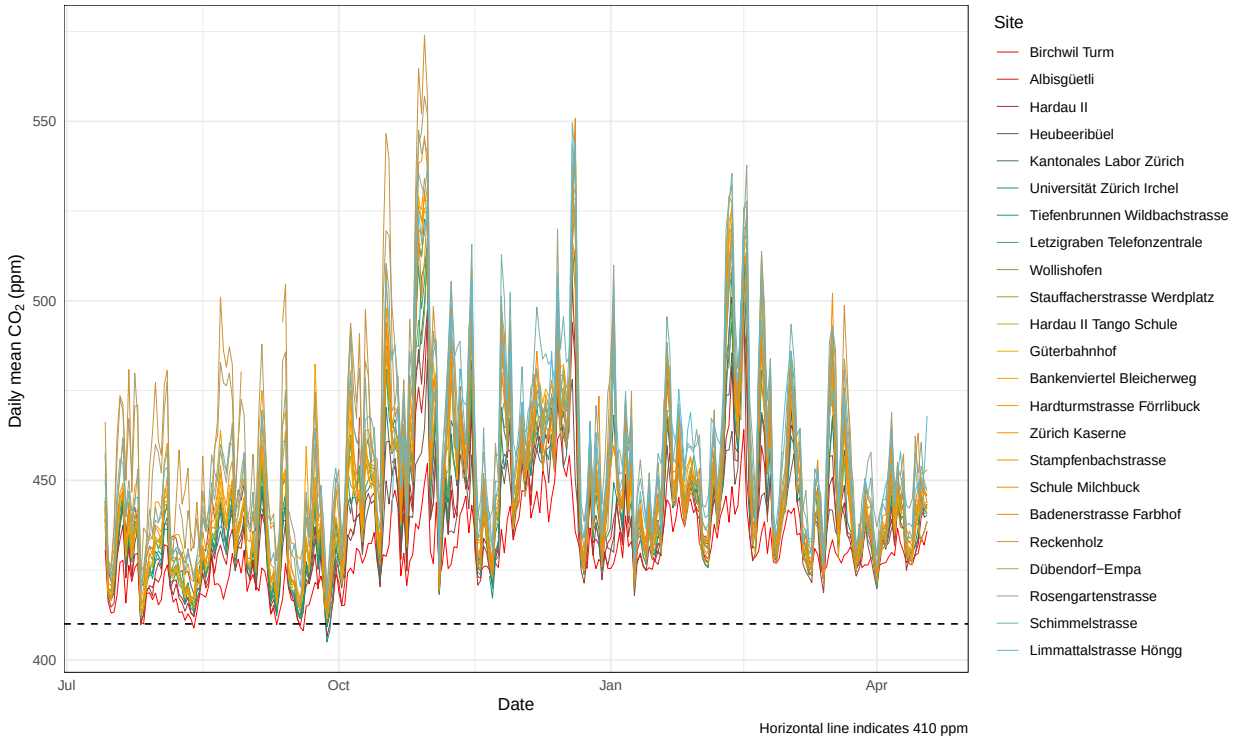

Figure 1: Daily mean CO_2 concentrations for the mid-cost sensors between July 2022 and April 2023 across Zürich City.

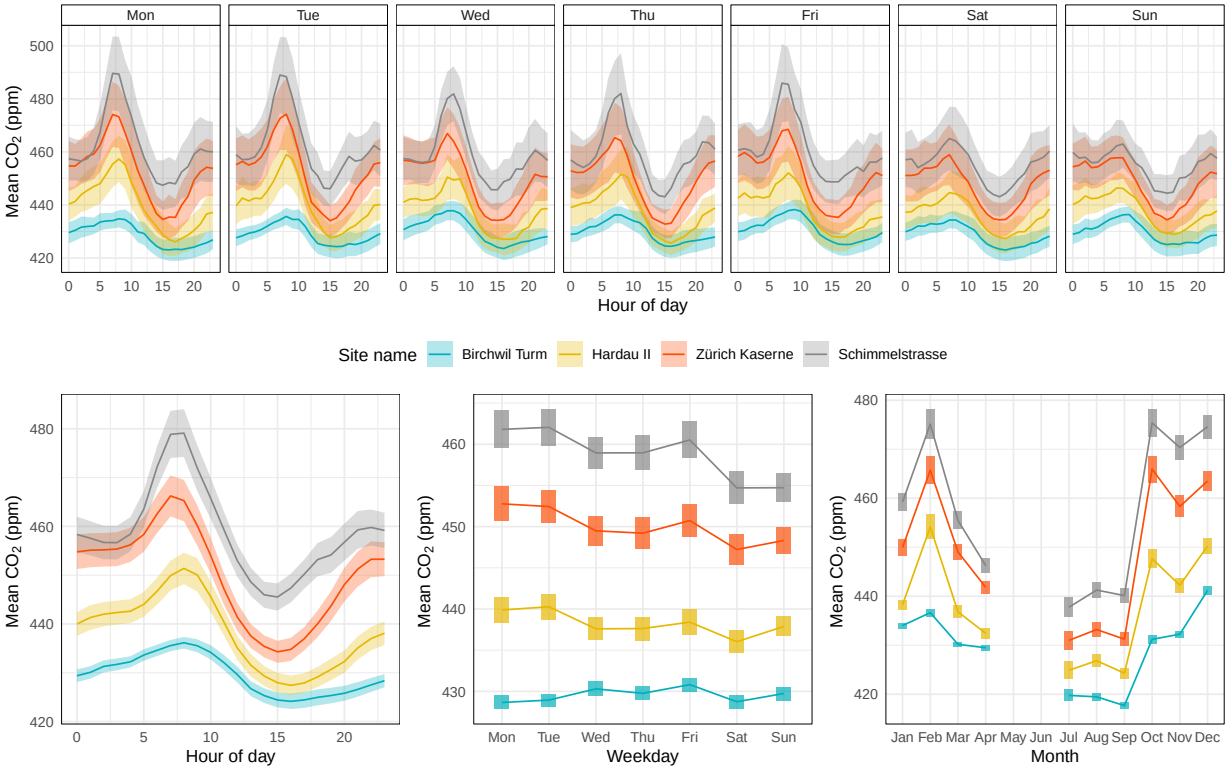

Figure 2: Different temporal summaries of CO_2 concentrations for four selected locations in Zürich City between July 2022 and April 2023.

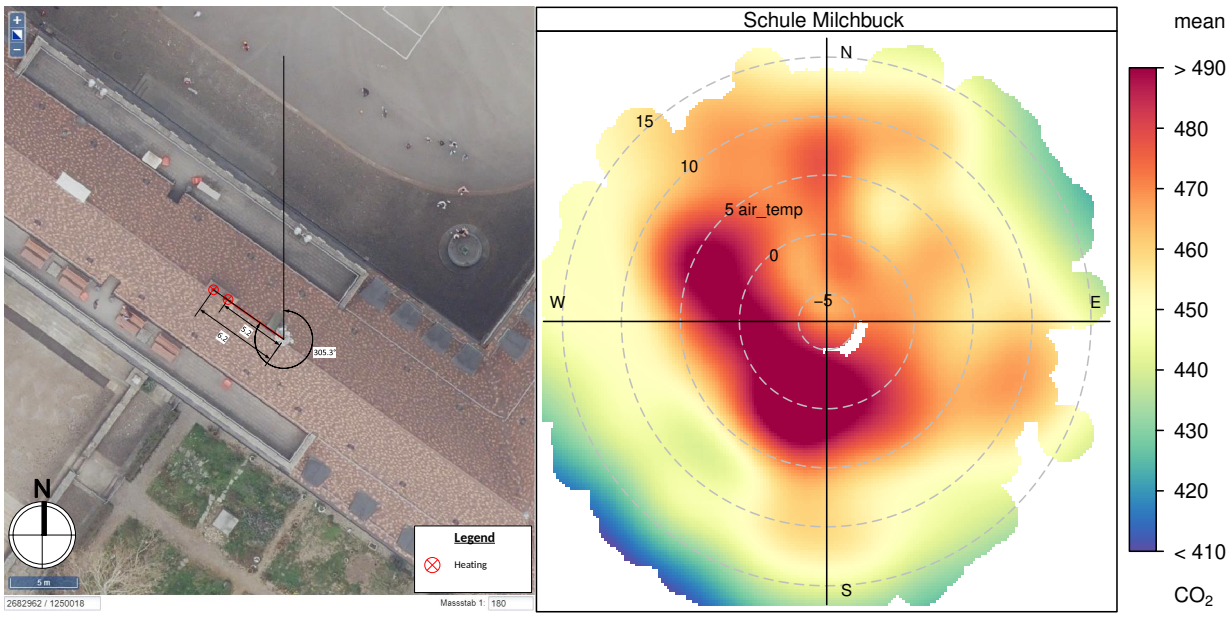

Figure 3: An aerial image and a polar plot for Schule Milchbuck indicating what wind directions likely result in locally contaminated CO_2 concentrations because of nearby heating stacks.

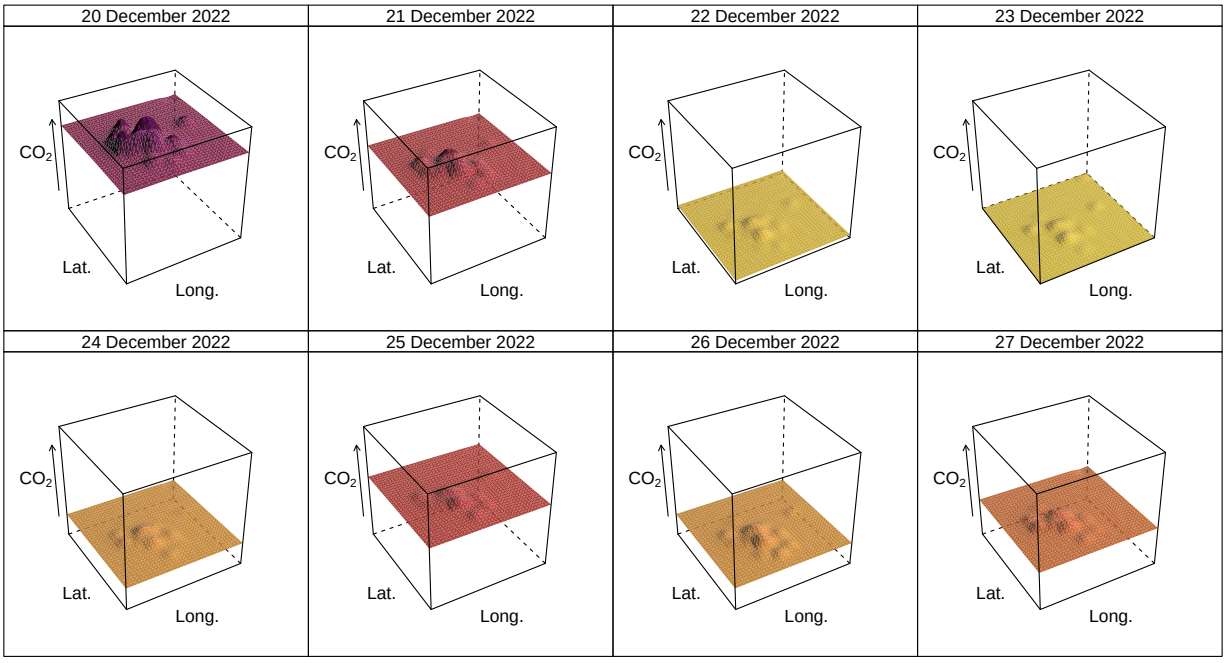

Figure 4: A collection of daily minimum naive concentration surfaces around the Christmas period in 2022 when CO_2 concentrations were especially variable. Note that much of the signal is in the daily background concentration.