Analysis of high gas concentration and flux measurements at Swiss Beromünster tall tower
(Supplementary material)

Plach et al., 2022
1 Data availability

Figure S1: Overview of data availability of key variables used in the corresponding paper in the period of interest 2017 to 2020. For further details on the data used, see the method section of the corresponding paper.
2 Global radiation data

Figure S2: Comparison of the used global radiation (average of two MeteoSwiss stations — Egolzwil and Mosen) and measurements directly at Beromünster. Egolzwil/Mosen and Beromünster data is available at a 10-min and 1-hourly resolution, respectively. For the comparison both data sets are averaged to 1-hourly means. The global radiation data is used for the flux gap-filling procedure (see method section of the corresponding paper).
3 Overview plots - Wind roses

Figure S3: Wind roses for the Beromünster site (entire data set) divided by season: winter (DJF), spring (MAM), summer (JJA), fall (SON).
Figure S4: Wind roses for the Beromünster site (entire data set) divided by time of day: night, morning, day, evening. For details on the hours included in the respective periods see the method section of the corresponding paper.
Figure S5: Wind roses for the Beromünster site (entire data set) divided by wind direction: WindNW, WindNE, WindSW, WindSE. For details on data separation see the method section of the corresponding paper.
4 Overview plots - Other meteorological data

Figure S6: Overview plots for additional meteorological variables (entire data set): alldata
Figure S7: Overview plots for additional meteorological variables (entire data set): summer (JJA)
Figure S8: Overview plots for additional meteorological variables (entire data set): winter (DJF)
Figure S9: Overview plots for additional meteorological variables (entire data set): day
Figure S10: Overview plots for additional meteorological variables (entire data set): night
Figure S11: Overview plots for additional meteorological variables (entire data set): wind from the Northeast (WindNE)