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Supplement of

Measurement report: Ammonia in Paris derived from ground-based open-path and satellite observations

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S1: influence of meteorological condition on seasonal and monthly NH₃ variabilities

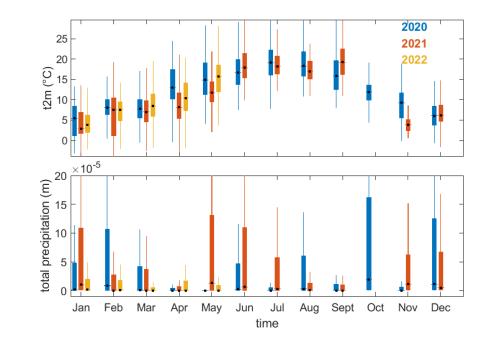


Figure S1: Box plot of monthly temperature at 2 meters (t2m, in $^{\circ}$ C, top panel) and total precipitation (in m, bottom panel) color coded by the year of measurements (2020 in blue, 2021 in orange, and 2022 in yellow) derived from ERA-5 around Paris.

6 S2: road traffic in Paris

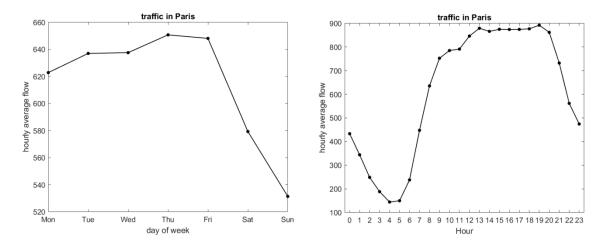


Figure S2: weekly (left panel) and diurnal (right panel) cycles of hourly mean flow of vehicles observed in Paris in 2020 and 2021. Source: https://opendata.paris.fr/explore/dataset/comptages-routiers-permanents/information/?disjunctive.libelle&disjunctive.etat_trafic&disjunctive.libelle_nd_amont&disjunctive.libelle_nd_aval

12 S3: PBLH (Planetary Boundary Layer Height) on surface measurements

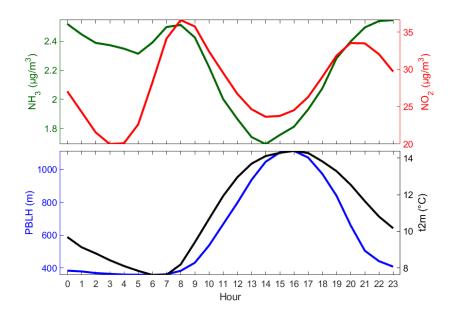


Figure S3: mean diurnal cycle of atmospheric NH₃ and NO₂ (μ g.m⁻³, green and red lines in upper panel) and PBLH (m, in blue, lower panel) and atmospheric temperature (°C, in black, lower panel) measured in Paris between January 2020 and June 2022.