







NO_x 2023

DWD Hohenpeissenberg

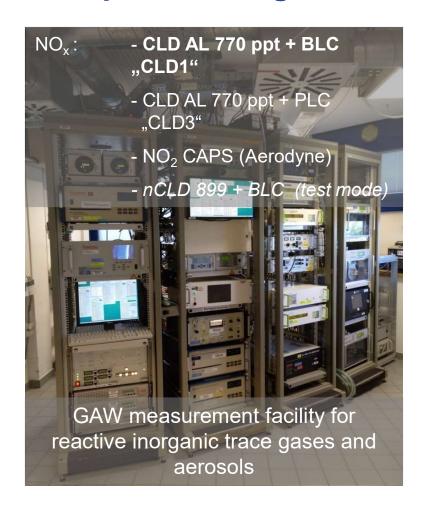








Hohenpeissenberg Site









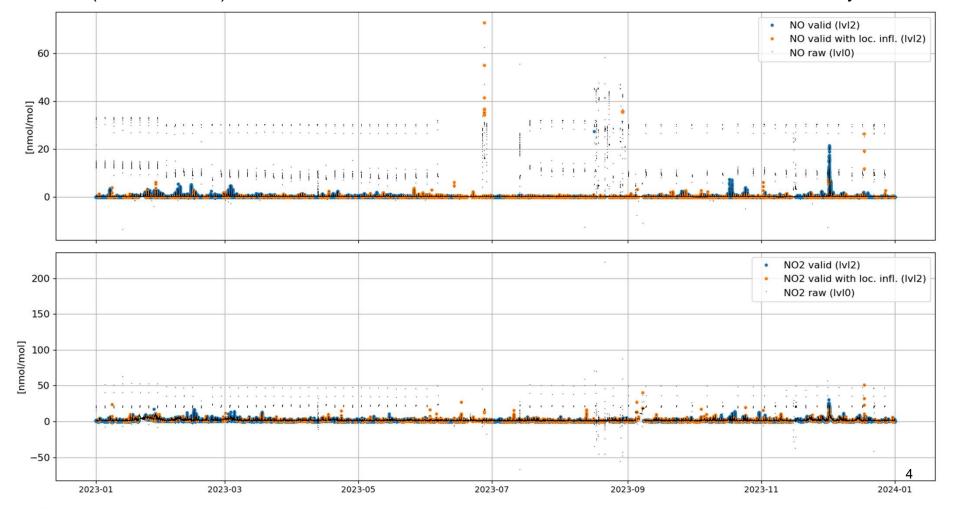






NOx data ("CLD1" Ecophysics CLD AL 770 ppt with BLC)

- → IvI0 (submitted): NO raw, NO2 raw, both calibrated, but uncorrected for 1) H₂O, 2) O₃, 3) noct. offset
- → Ivl2 (not submitted): NO/NO2 valid, NO/NO2 valid with local influence Ivl1: not submitted yet -> #4754



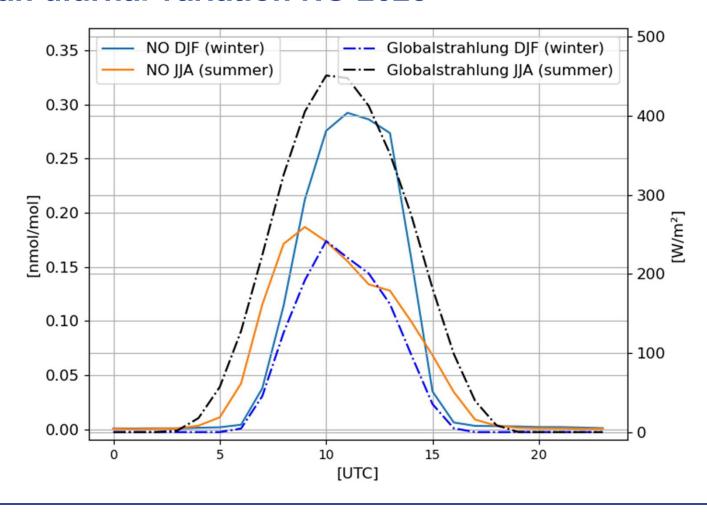








median diurnal variation NO 2023





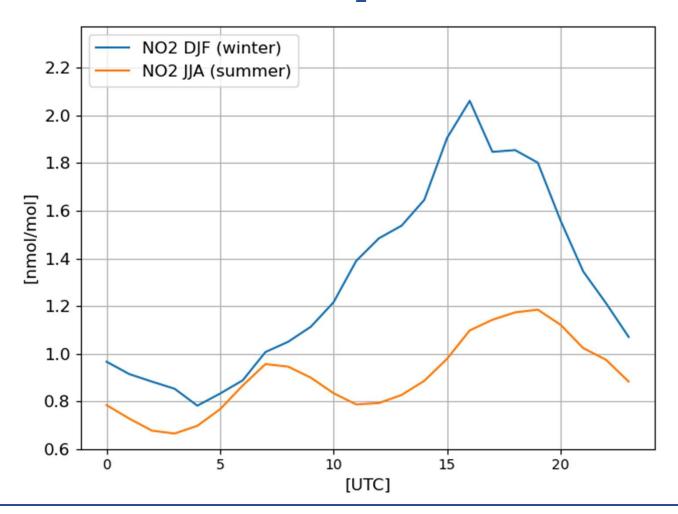








median diurnal variation NO₂ 2023





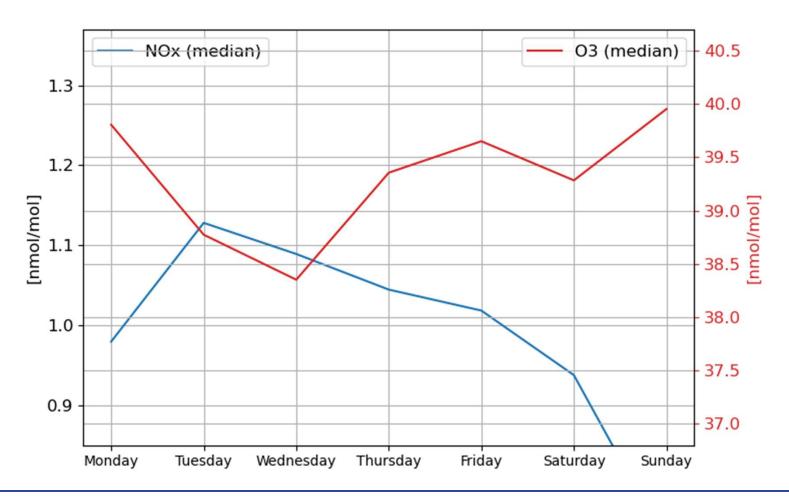








median weekly variation 2023





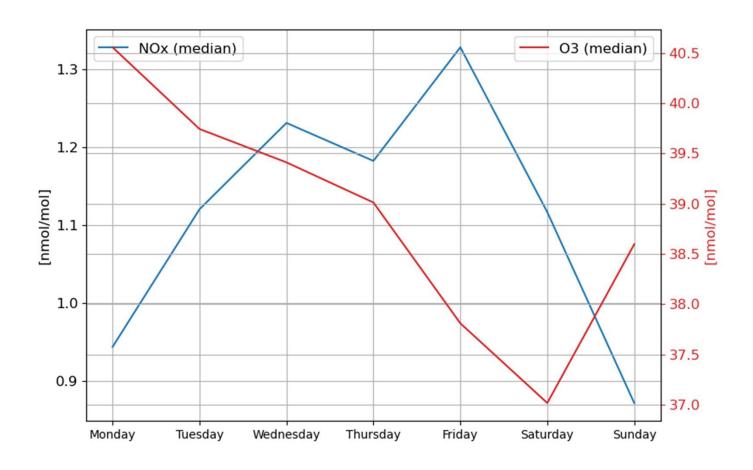








median weekly variation NOx, 2022





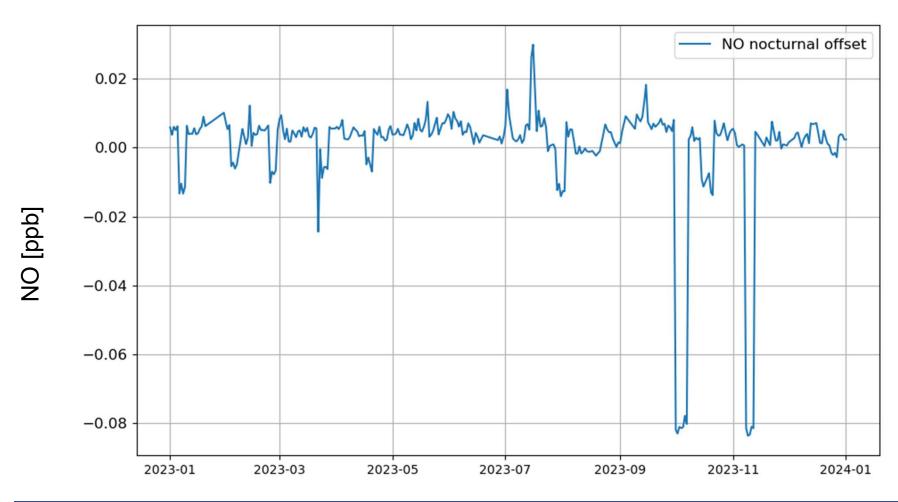








NO nocturnal offset 2023









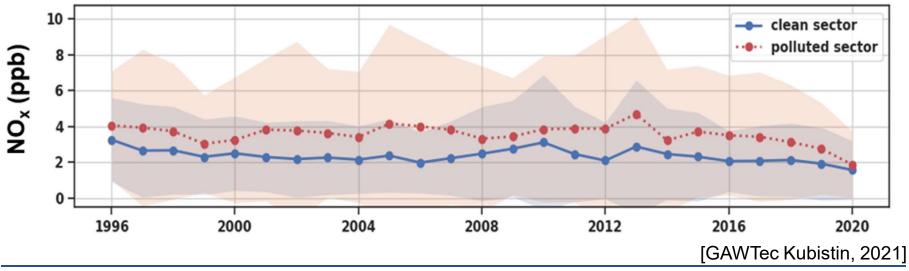




comparison to previous year

year	NOx annual median	NOx annual mean
2021	1.2 ppb	1.9 ppb
2022	1.1 ppb	1.7 ppb
2023	1.0 ppb	1.4 ppb

\rightarrow decreasing trend continues











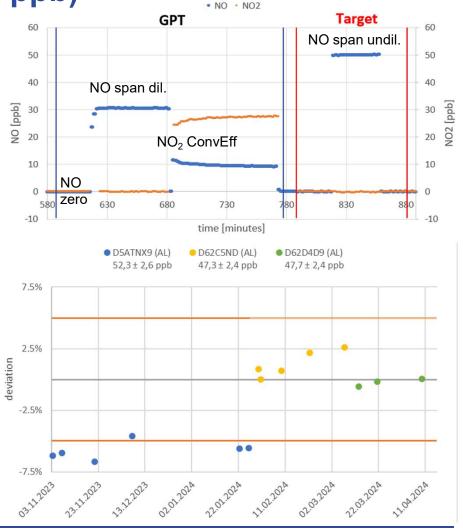


NO target measurements (50 ppb)

CLD 3 Messung 22.01.2024

Annika Kuss

- motivation:
 - > cancel out dilution effects
 - additional, operational reference measurements
 - → detect deviations to primary/transfer standards on short- and and long-terms
- → first target meas. in Nov 2023
- 3 cylinders, 15 single measurements so far
- → relative deviations to calibrated CLD3 with ± 5% margins
- collecting statistics and experience













Thanks for

your

attention!

