







NO<sub>x</sub> 2022

# **DWD** Hohenpeissenberg









#### **Hohenpeissenberg Site**











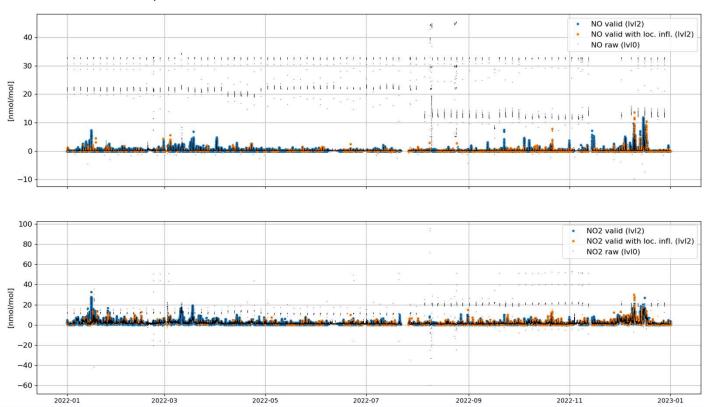




#### submitted NOx data ("CLD1" Ecophysics CLD AL 770 ppt with BLC)

→ IvI0: NO raw, NO2 raw

→ IvI2: NO/NO2 valid, NO/NO2 valid with local influence





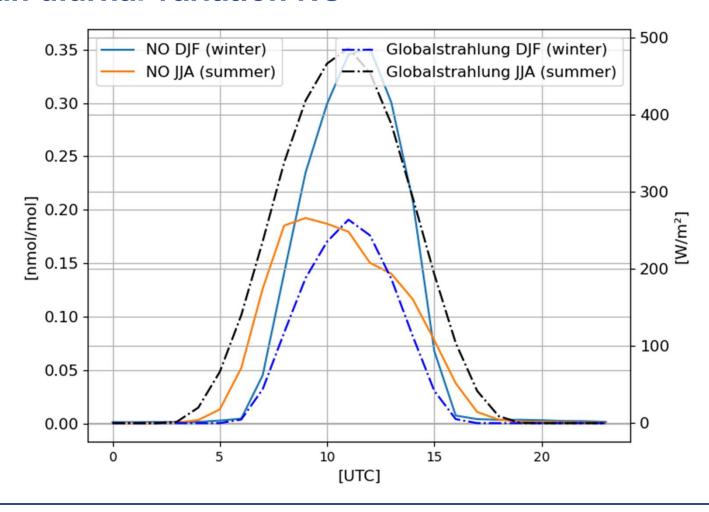








#### median diurnal variation NO





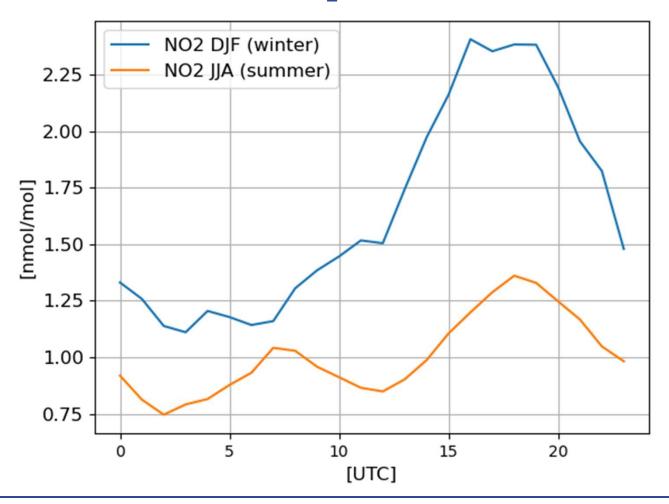








# median diurnal variation NO<sub>2</sub>





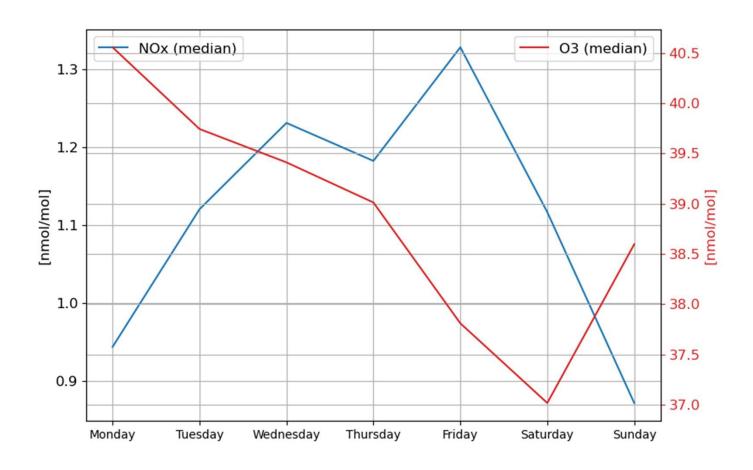








## median weekly variation





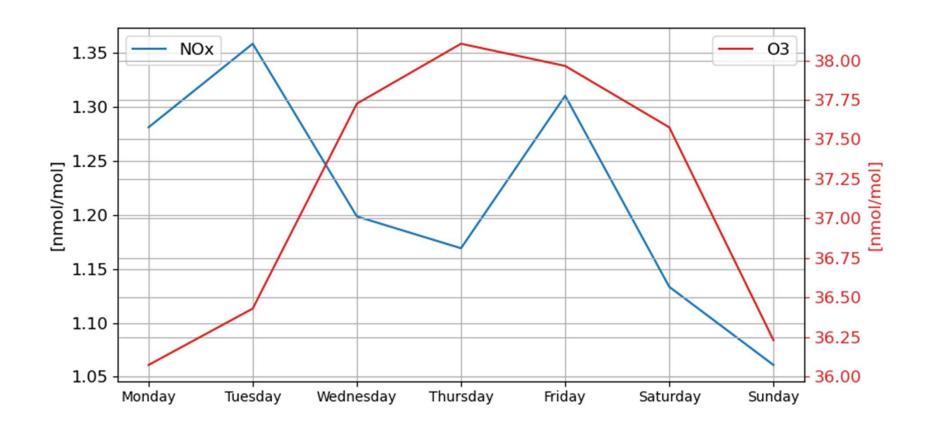








## median weekly variation NOx, 2021







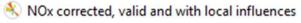


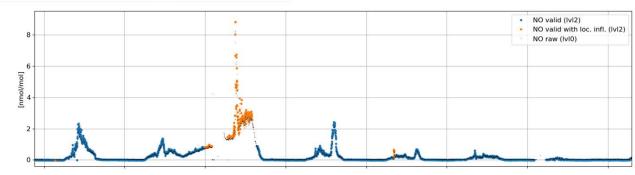


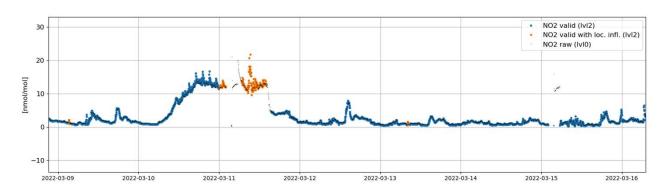


## special event

- → 10./11. March 2022
- elevated NOx for ~40 hours
- brownish haze
- not a Saharan dust event, but during the following days
- CO also elevated but less pronounced, SO2 and aerosols (black carbon, mass concentration) not unusual
- trajectories from eastern europe









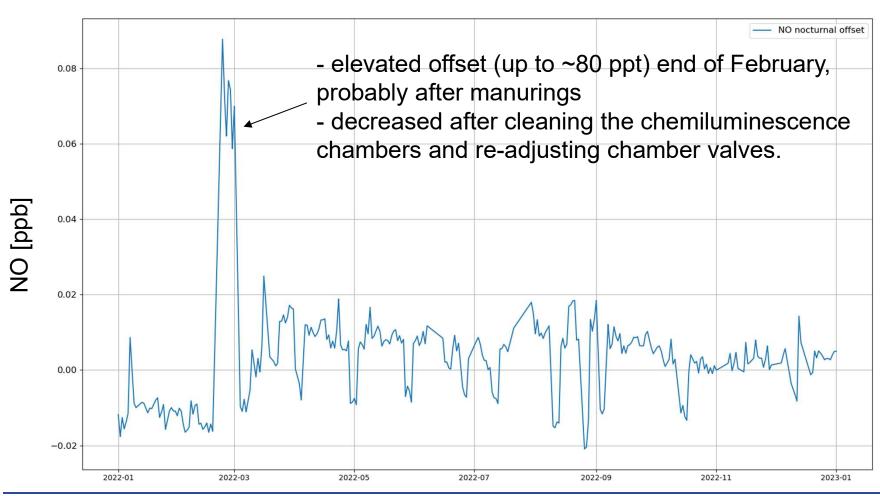








#### **NO** nocturnal offset









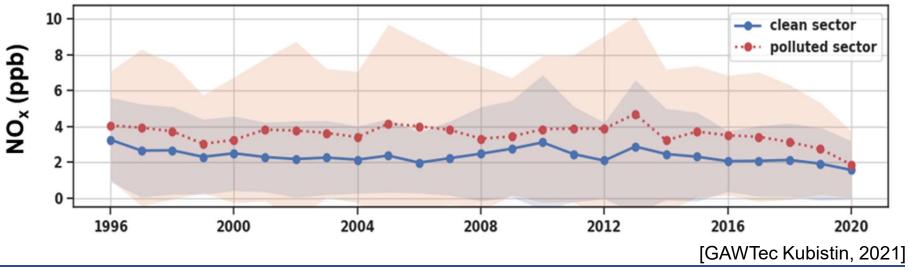




#### comparison to previous year

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

- mean NOx 2022 is possibly slightly below values of previous years ≤ 2020













Thanks for

your

attention!





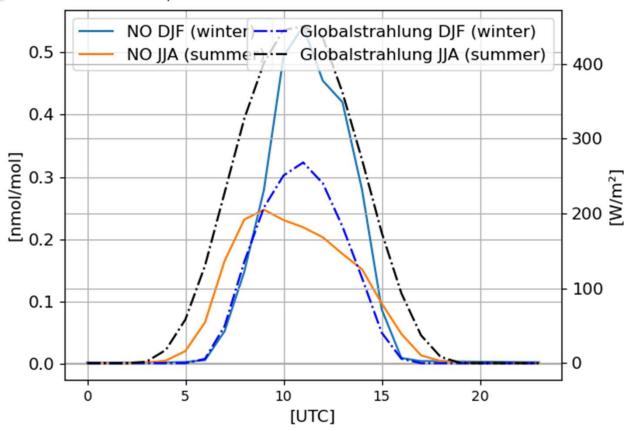






## median diurnal variation NO, 2021

NO median diurnal variation per season







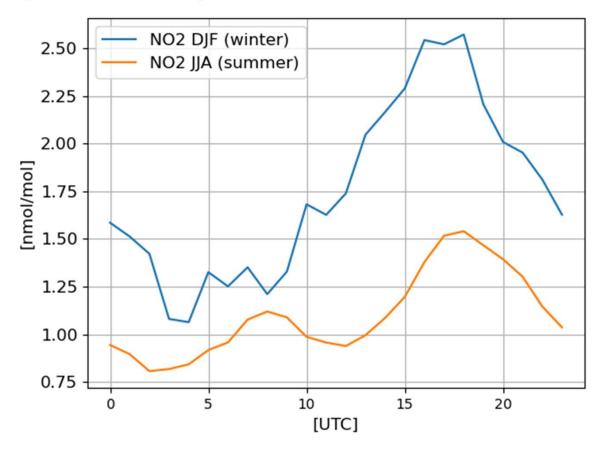






# median diurnal variation NO<sub>2</sub>, 2021

NO2 median diurnal variation per season













# median weekly variation NOx, 2021

