

PUY station 1871-2023



**Puy de Dôme
Station**

1465 m

Global GAW PUY



PUY NOx Data 2023 (NOx since 2003)

Puy de Dôme (France): current status of station/instrument

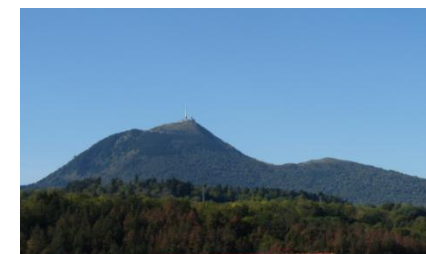
Aurélie Colomb :

aurelie.colomb@uca.fr

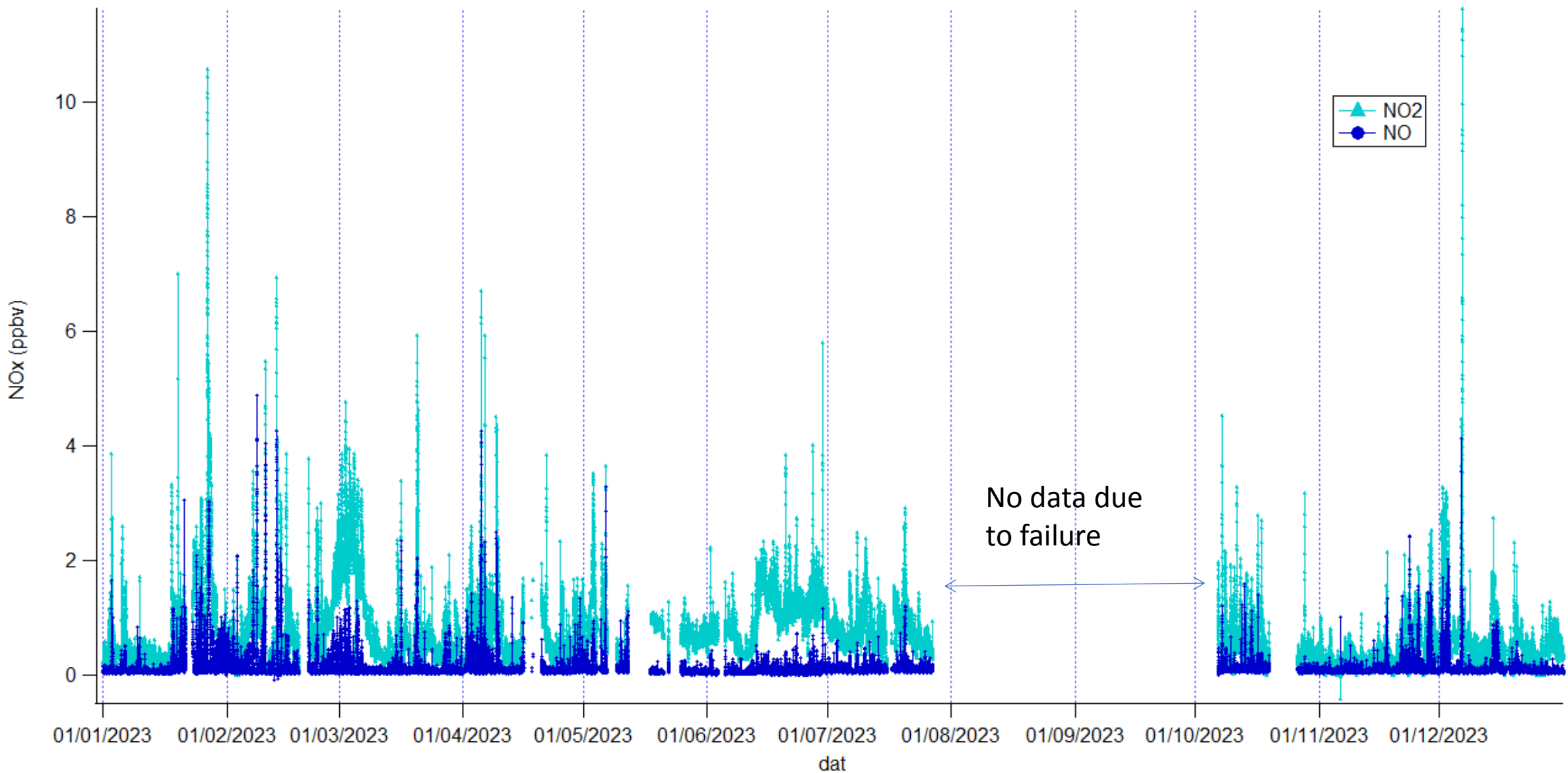
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	NO	NO2
instrument/ measurement principle	<p>TEI 42 iTL O₃ chemiluminescence</p> <p>!!!! NEW Teledyne T200 UP !!!! O₃ chemiluminescence</p>	<p>TEI 42 iTL Molybdenum converter CAPS N500 since nov2020 !!!! NEW Teledyne T200 UP !!!! BLC converter</p>
scale	Messer (5.07 ppm ppm in N2) + dilution to 41 ppbv of NO	
calibration interval (Manual calibration)	1 x / month, 1 blank x /week	1 x / month, 1 blank x /week
quality checks	check of chamber temp, pressure, flow, lab journal (in written form), blank every week	



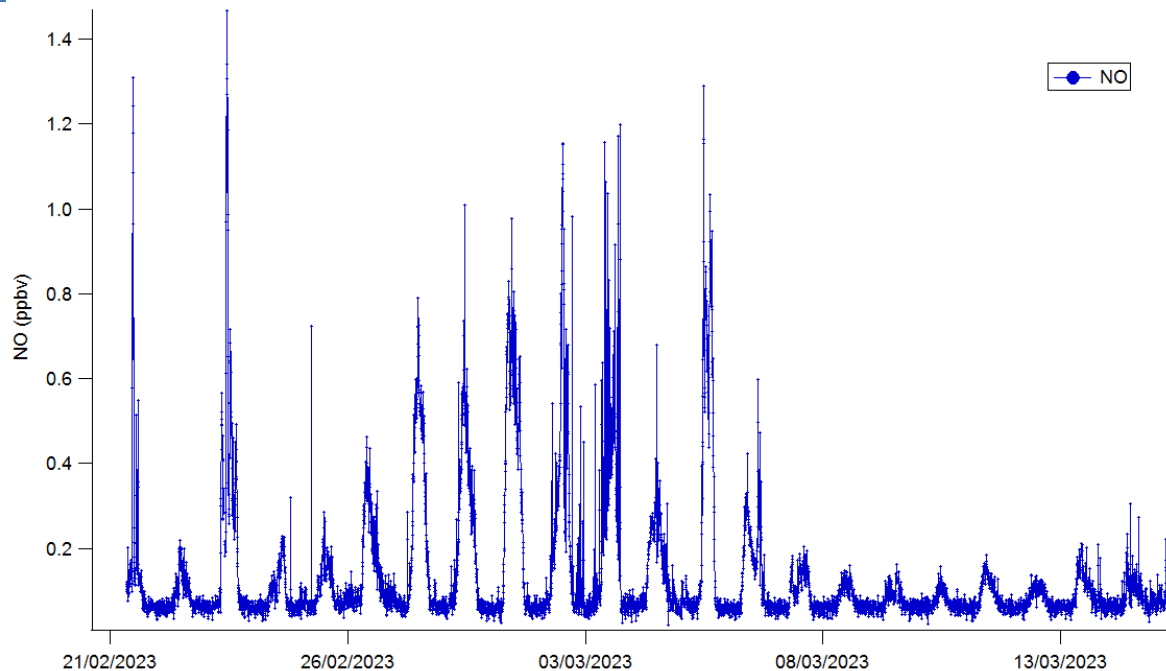
PUY 2023 - NOx



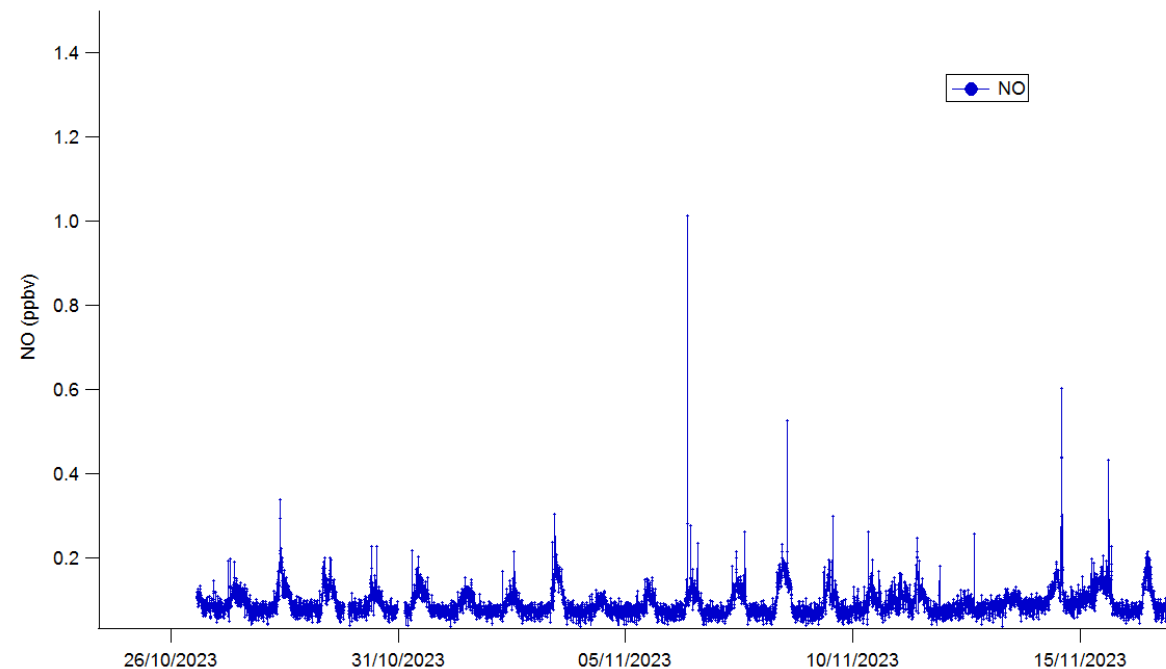


PUY 2022 - NOx

Diurnal Variation of NO depending of the PBL, slope wind and wind direction



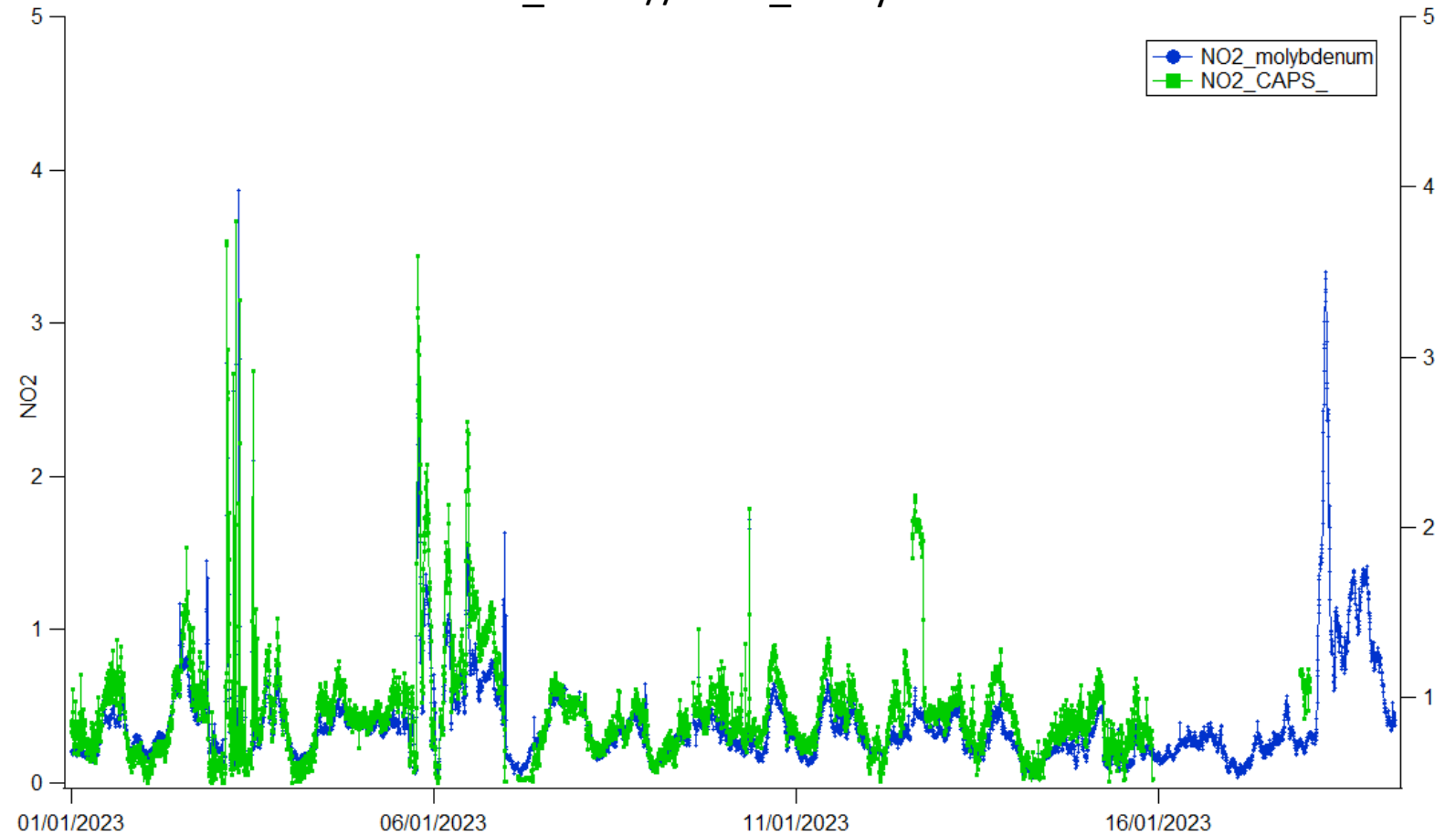
March 2023



November 2023

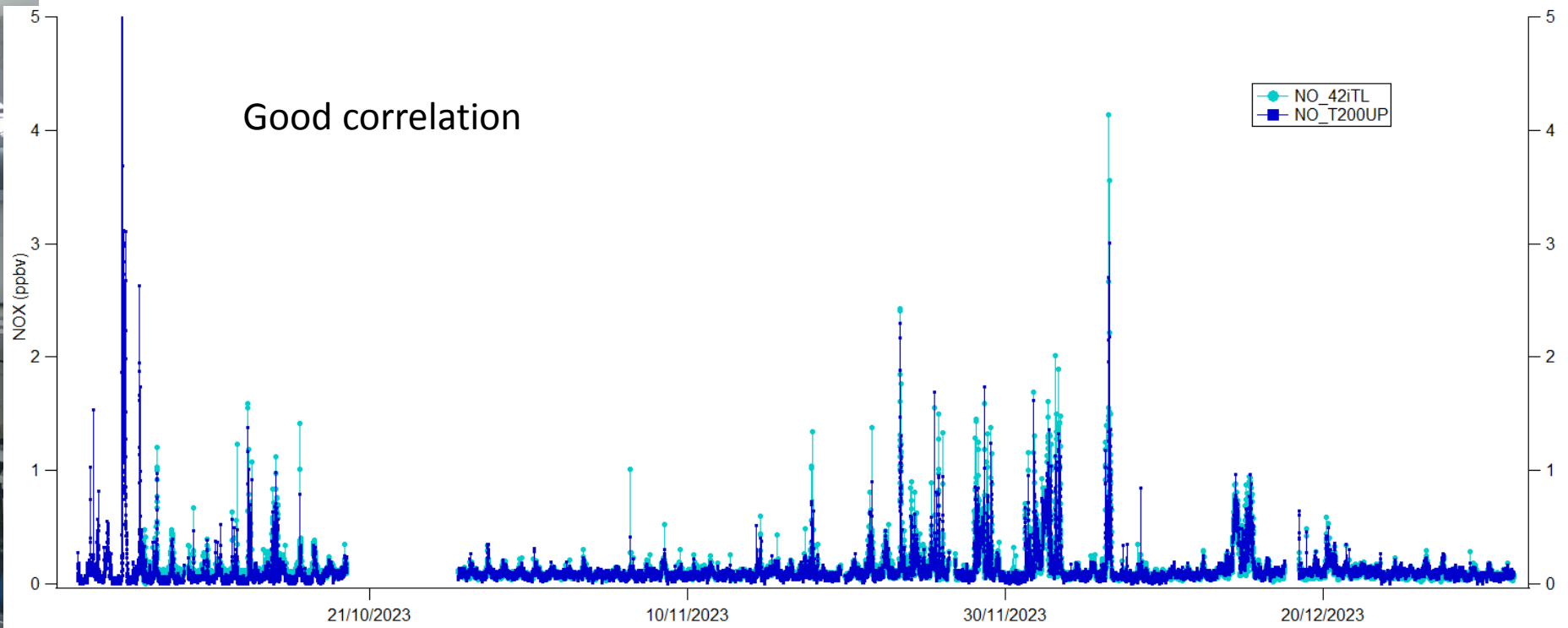
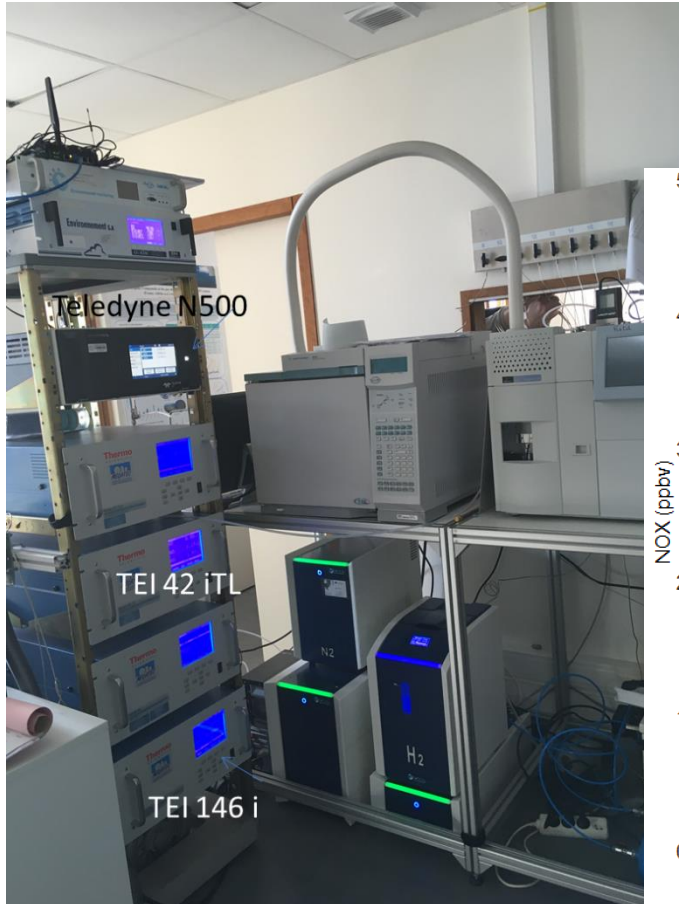


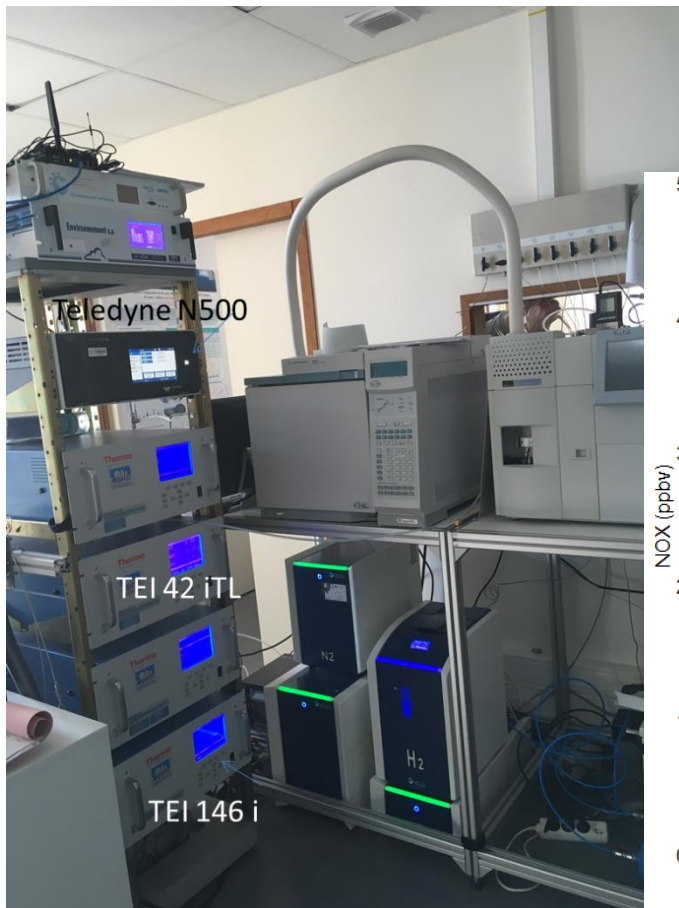
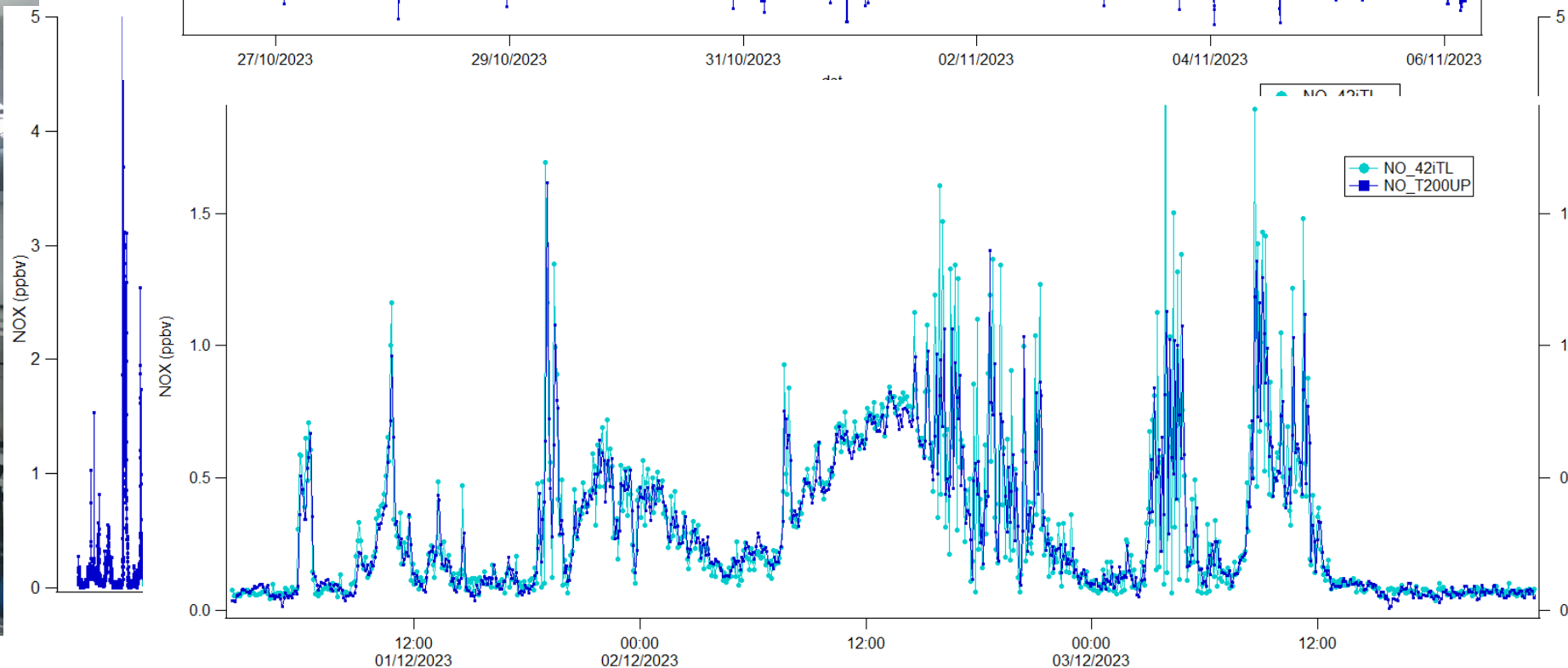
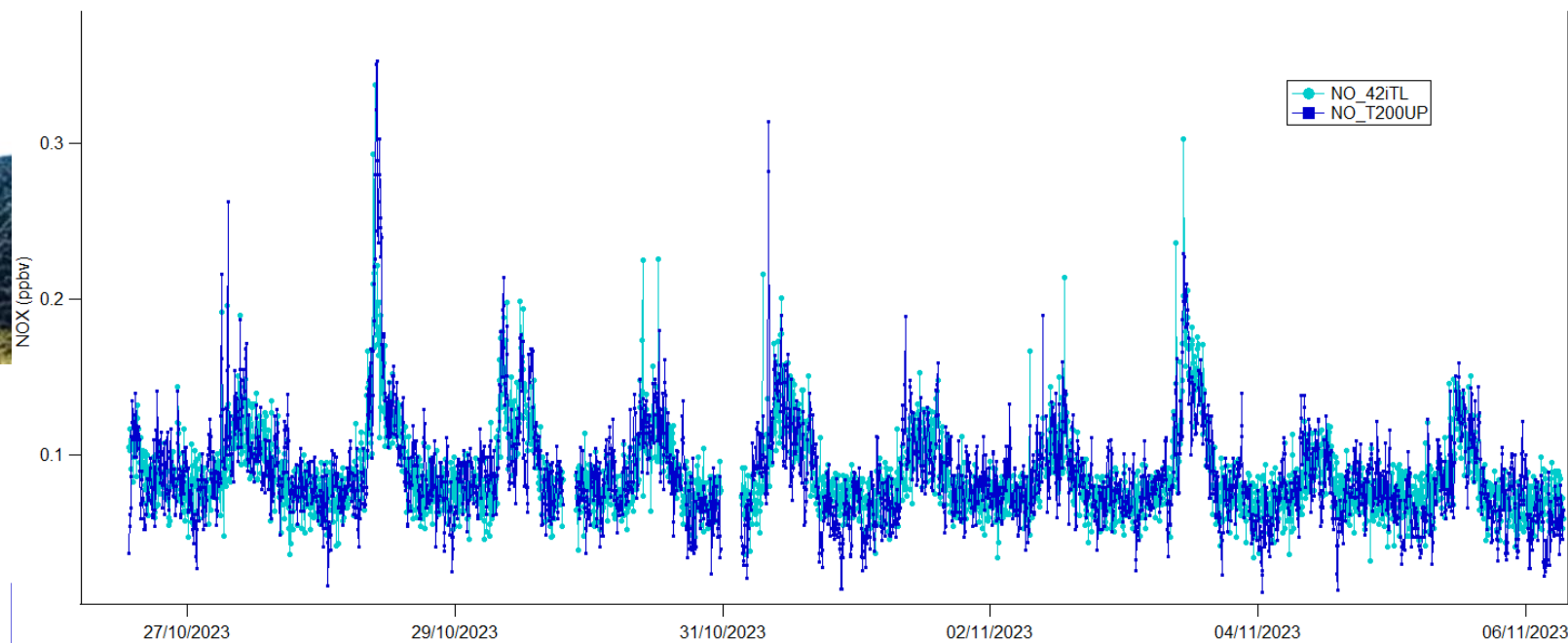
NO2_CAPS // NO2_Molybdenum





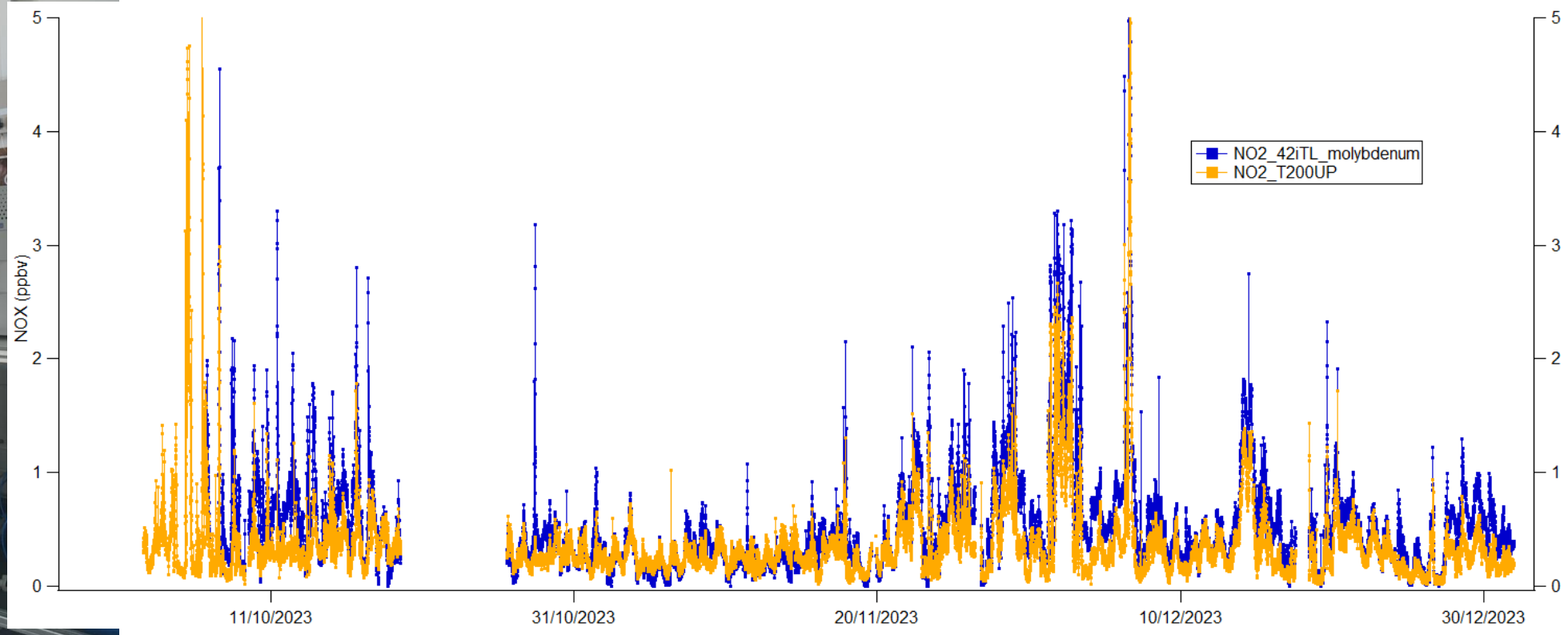
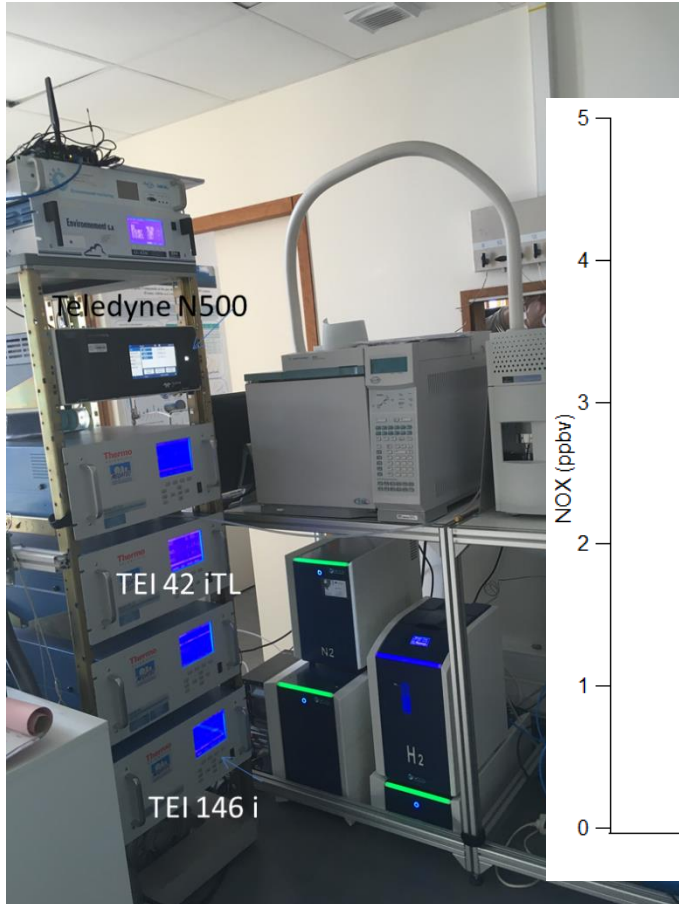
NO_T200UP // NO_42iTL

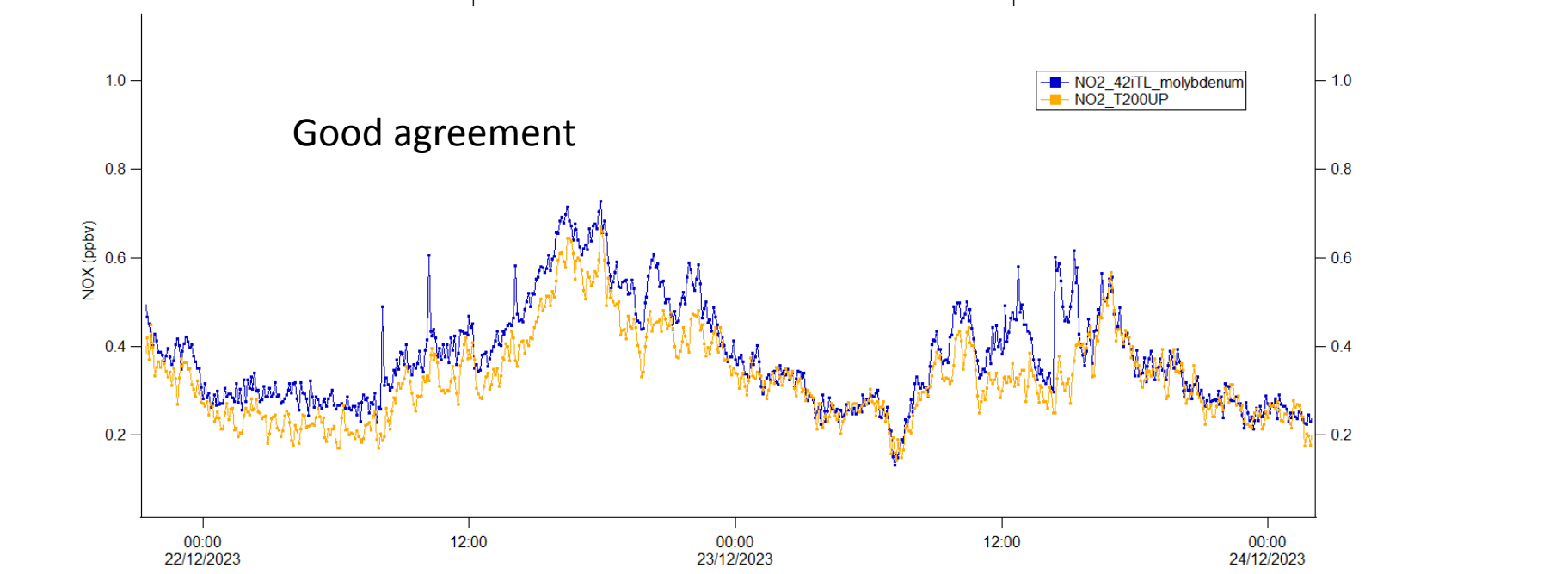
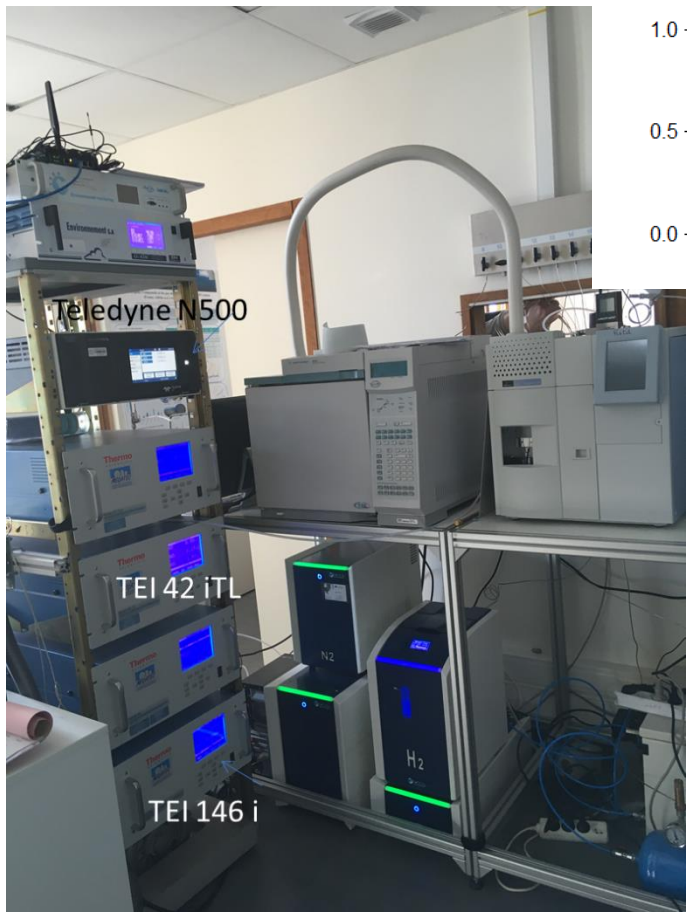
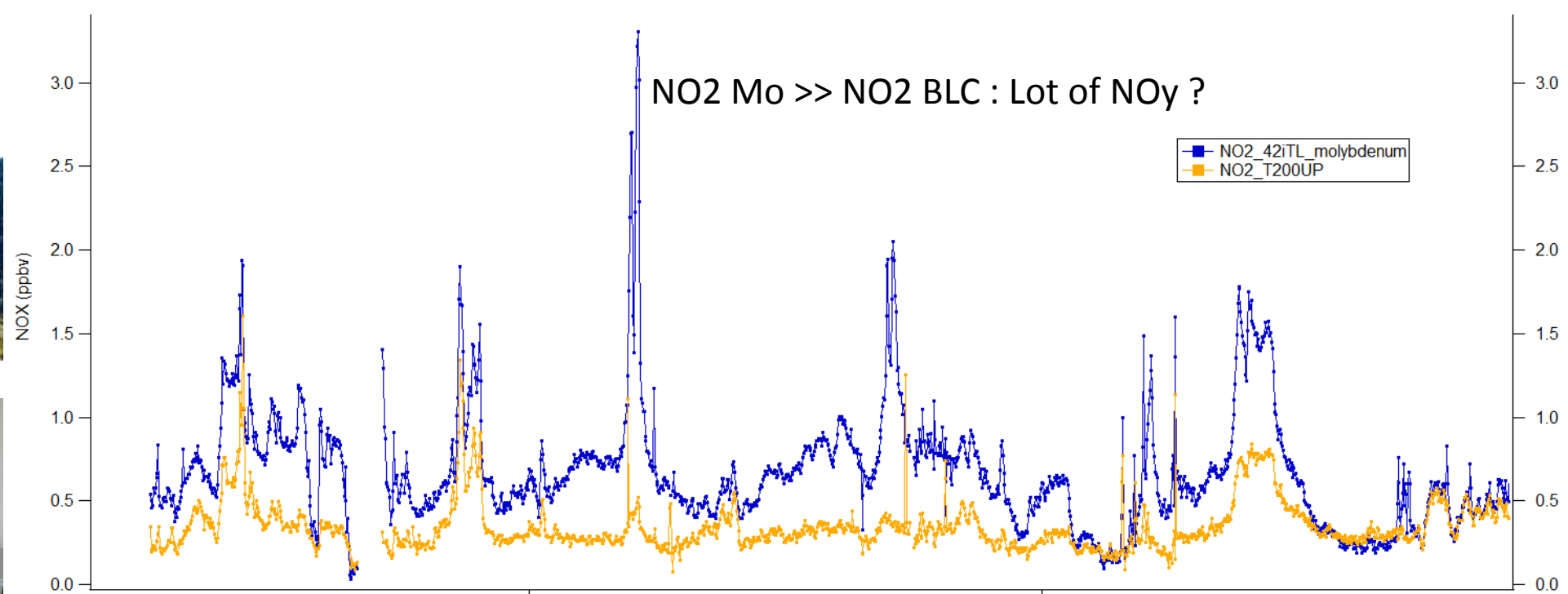




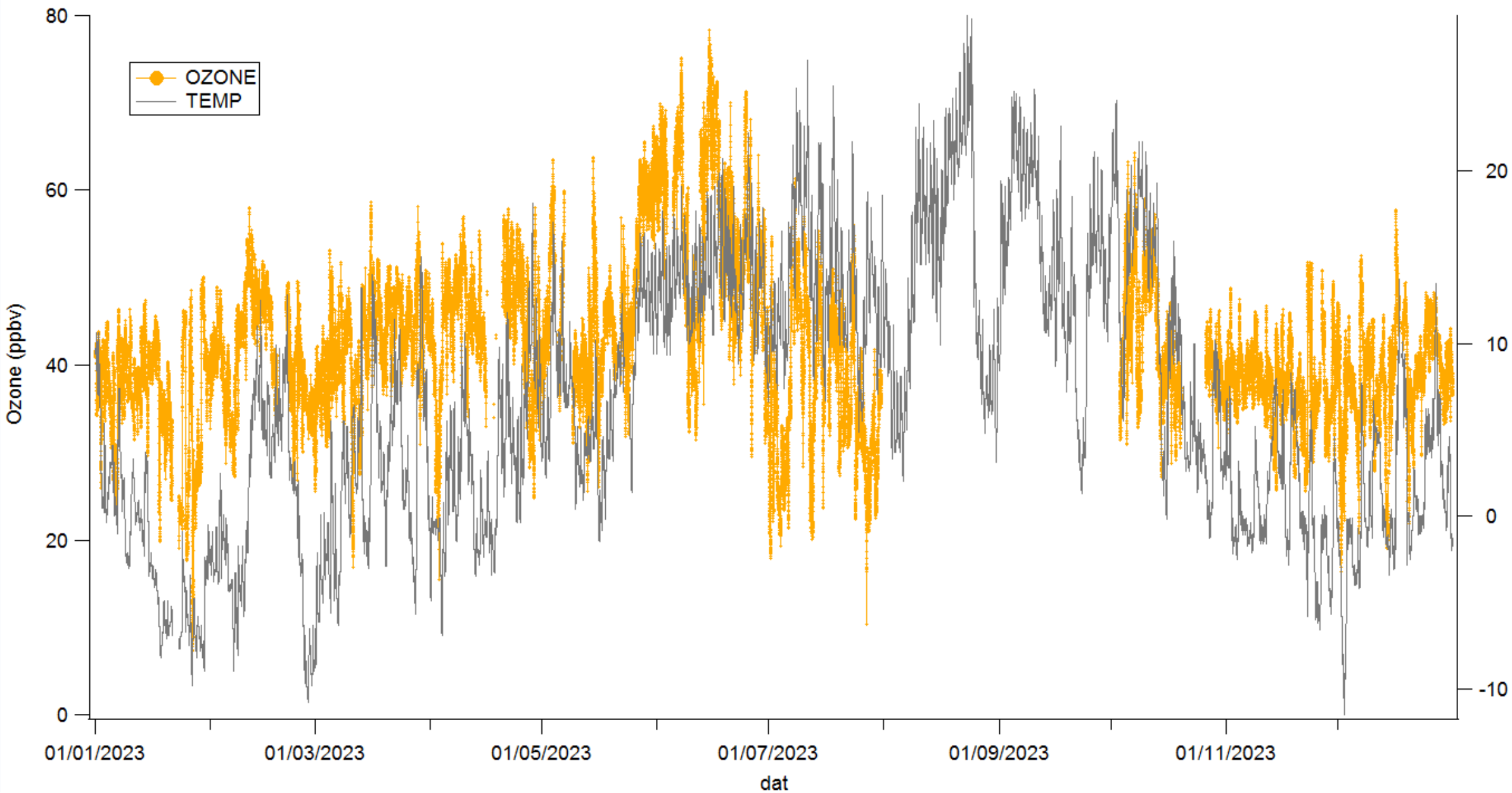


NO2_T200UP (BLC) // NO2_42iTL (molybdenum)





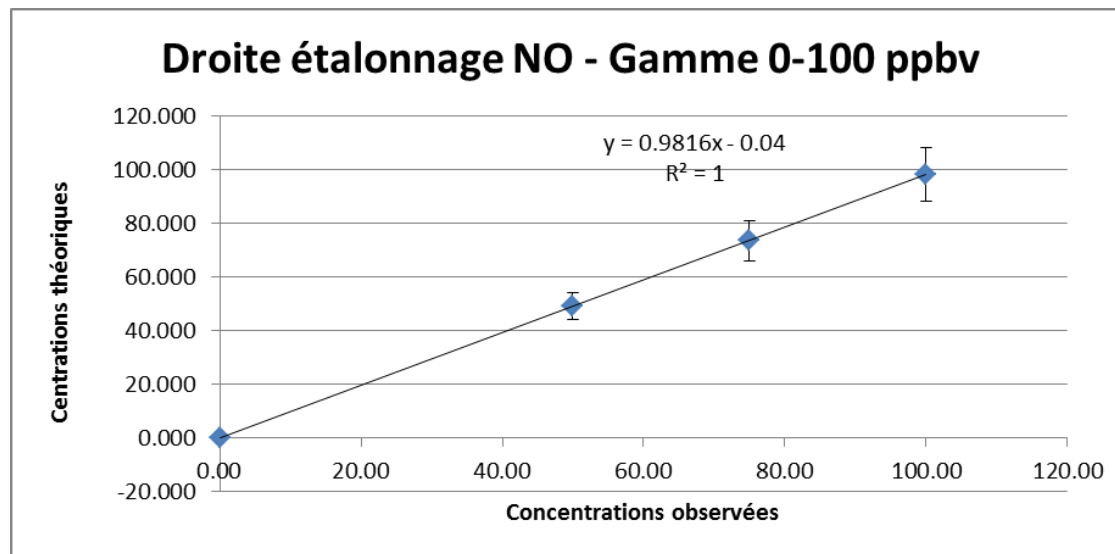
PUY 2023 – Ozone and Temperature



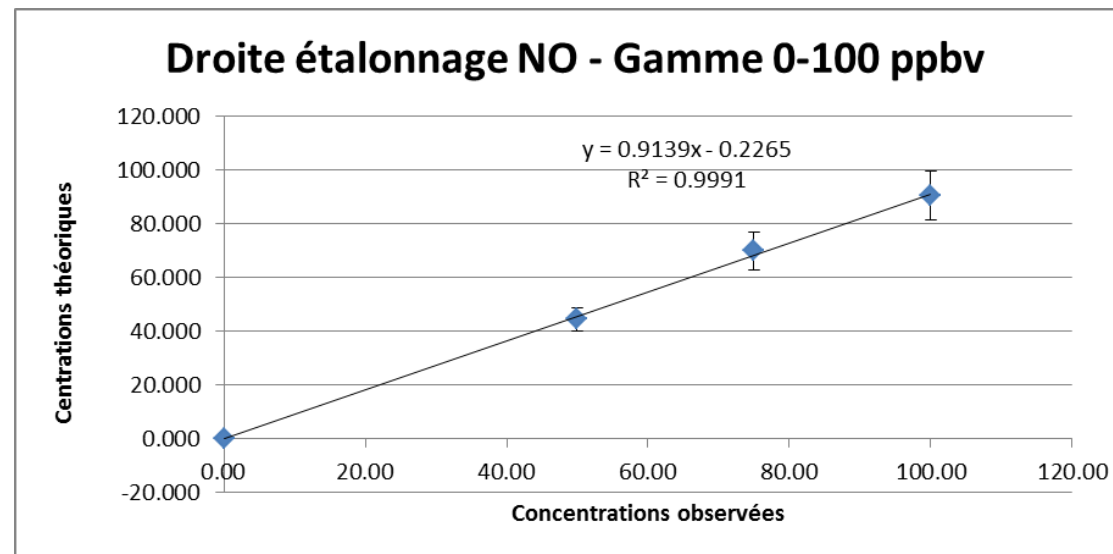
Calibration using TEI 146 i and a bottle of 5 ppm containing NO.



Example of NO calibration with TEI 42 iTL



Example of NO calibration with T 200 UP





News :

- **NEW Teledyne T200UP**
- **Automatisation of calibration**

