

Supplementary Information

1 pHONO data in stable conditons.

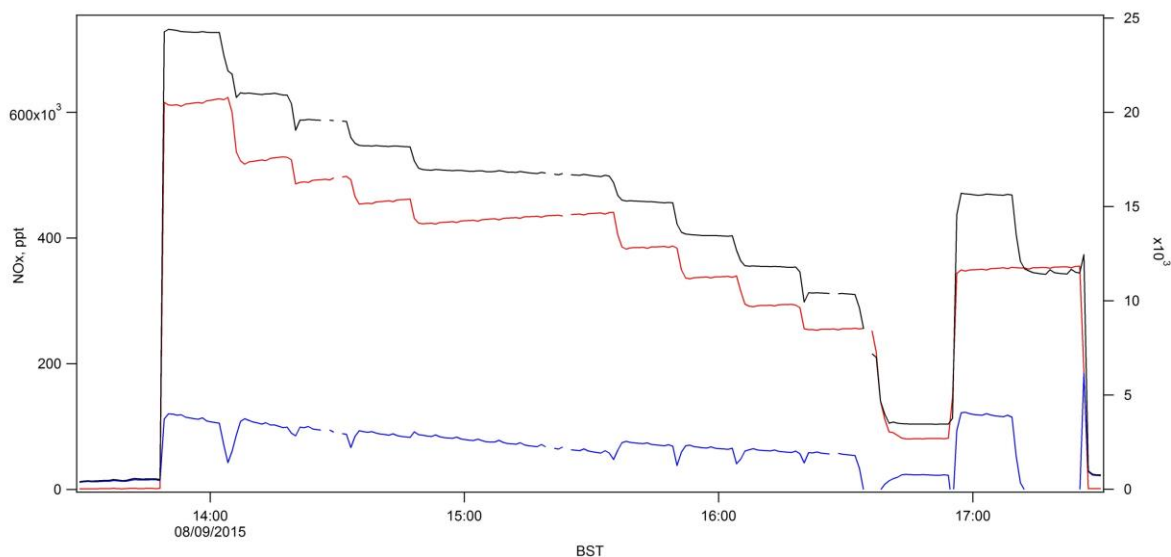


Figure 1. NO (red), NO₂ 395 nm (Blue) and NO_x measured in the HIRAC chamber during HONO comparison with FT-IR.

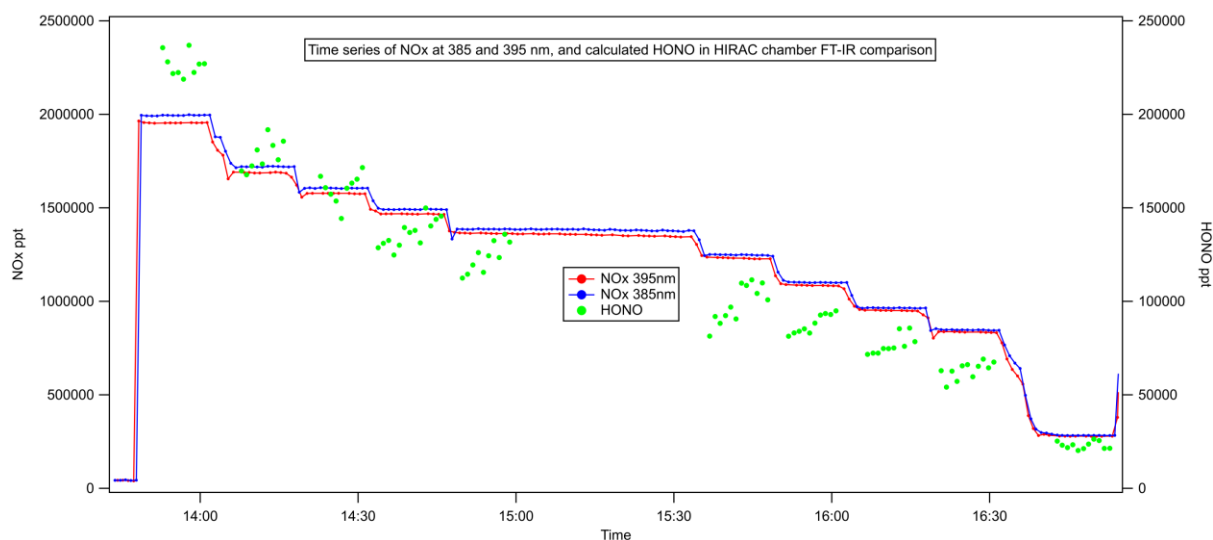


Figure 2. NO₂[†] 385 nm (blue), NO₂[†] 395 nm (red), and derived HONO (green) in the HIRAC chamber during FT-IR comparison.

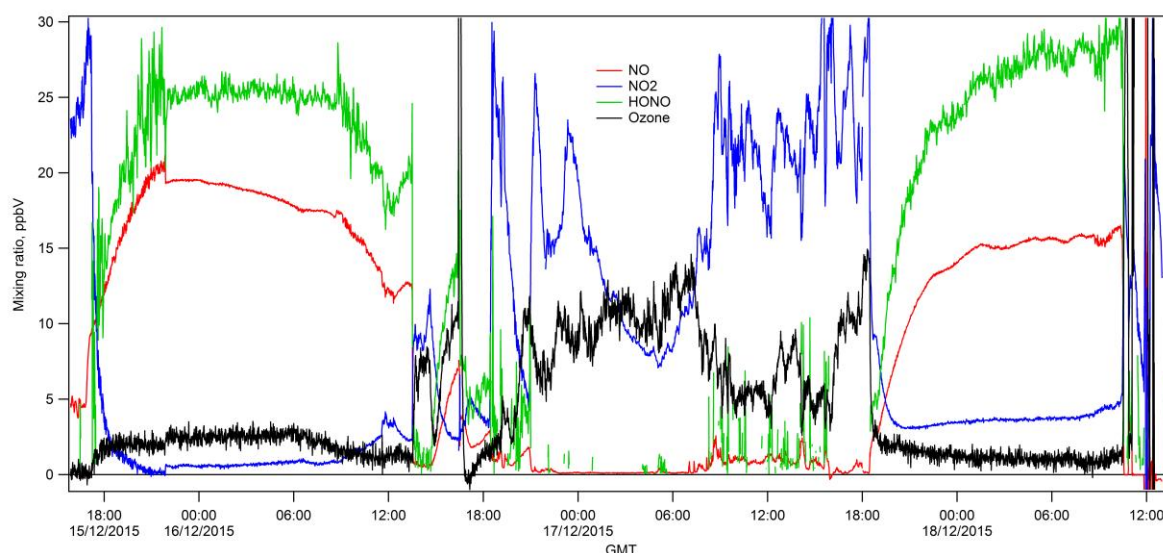


Figure 3. NO (red), NO₂ 395 nm (blue), HONO (green), and Ozone (black) measured indoor under ventilated (somewhat turbulent) and sealed (stable) conditions measured by the pHONO instrument and Thermo 49i.

2. pHONO data in turbulent conditions at Weybourne Atmospheric Observatory (WAO)

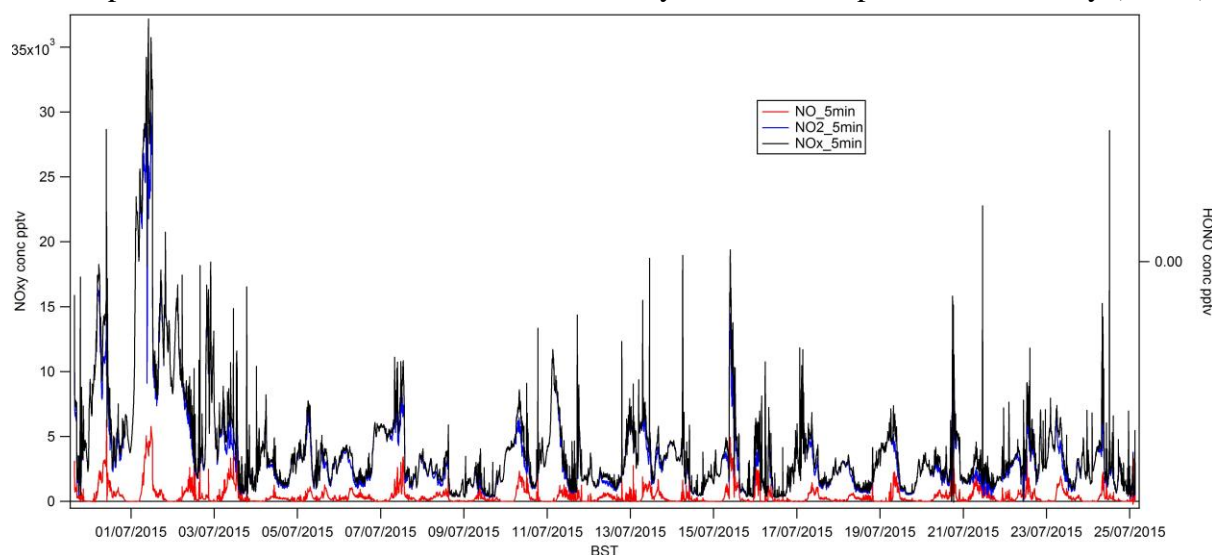


Figure 4. NO (red), NO₂ 395nm (blue), and NO_x (black) data measured during July 2015 at WAO by the pHONO instrument.

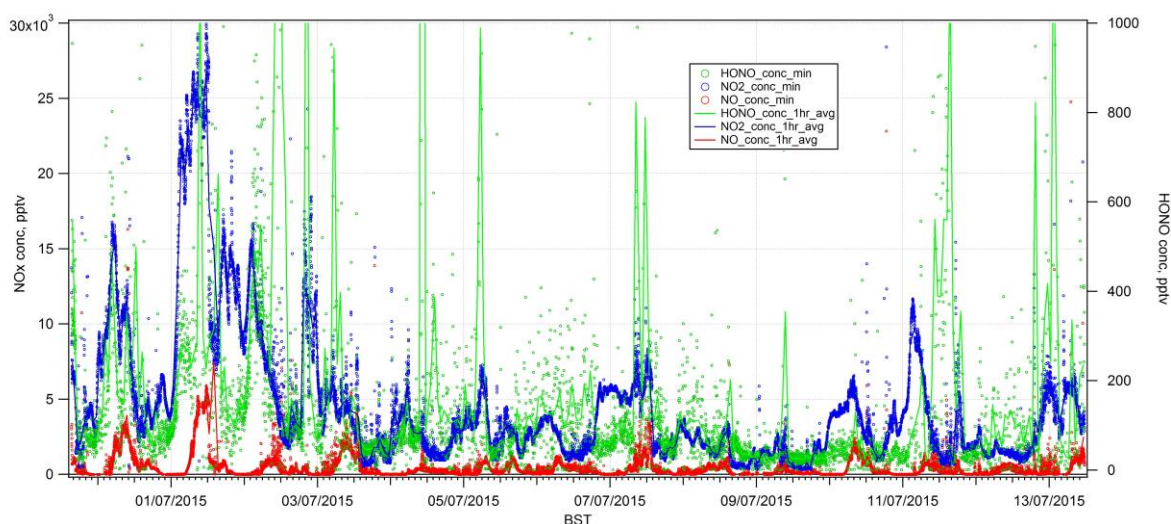


Figure 5. Minute and hourly averaged NO (red), NO₂ 395 nm (blue) and HONO (green) data measured at WAO in July 2015 by the pHONO instrument.

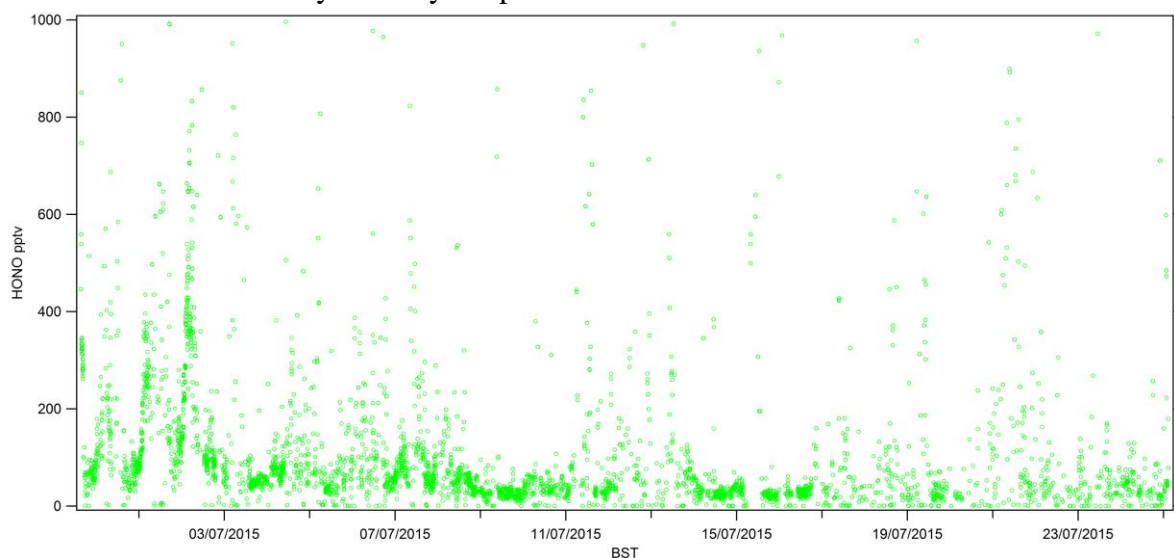


Figure 6. Unfiltered minute HONO data measured by pHONO instrument during July 2015 by the pHONO instrument.