



Supplement of

Local air pollution from oil rig emissions observed during the airborne DACCIWA campaign

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S1. General location of the DACCIWA research site in southern West Africa. The black dot marks the location of the FPSO vessel.



S2. Comparison between time series of observed (black) and simulated (red) wind direction (a) and wind speed (b) for July 10, zoomed in on the period of the flight surrounding the NO₂ peaks.



S3. Comparison between time series of observed (black) and simulated (red) wind direction (a) and wind speed (b) for July 14, zoomed in on the period of the flight surrounding the NO₂ peaks.



S4. (a) July 10: NO₂ concentration as a function of time for SPIRIT measurements (black) and FLEXPART sensitivity test (ST) 1 (green), ST2 (purple; with a flux of 0.04 kg s⁻¹), ST3 (orange; with a flux of 0.04 kg s⁻¹). (b) Similar to (a) for July 14 with a flux of 0.035 kg s⁻¹ for ST2 and ST3.