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**Article:**

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Measurement of NO<sub>x</sub> fluxes from a tall tower in central London, UK and  
comparison with emissions inventories.

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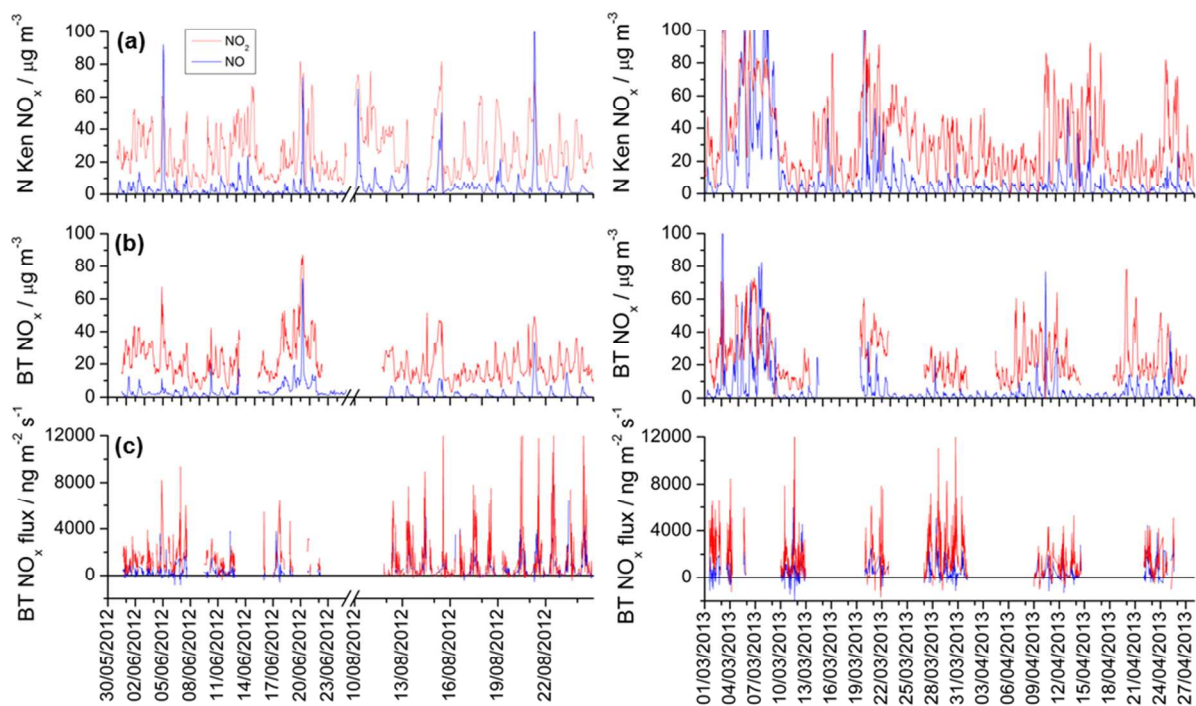
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150 Stamford Street, London, UK.

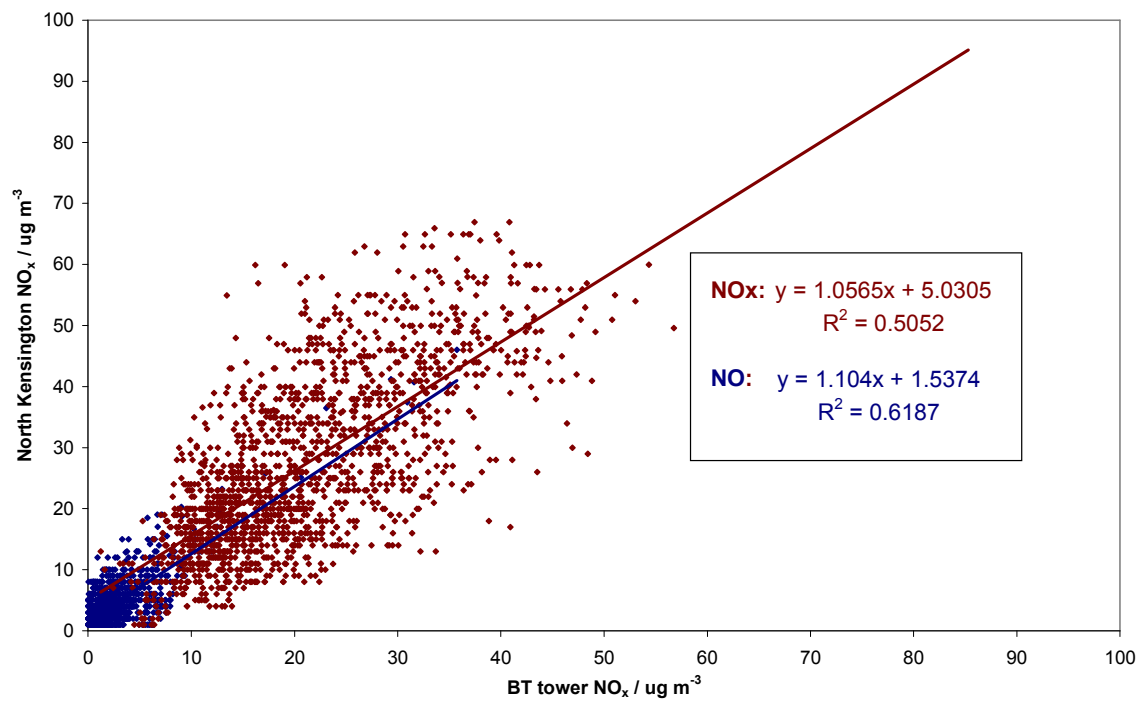
This supplementary information contains 6 figures on 6 pages.



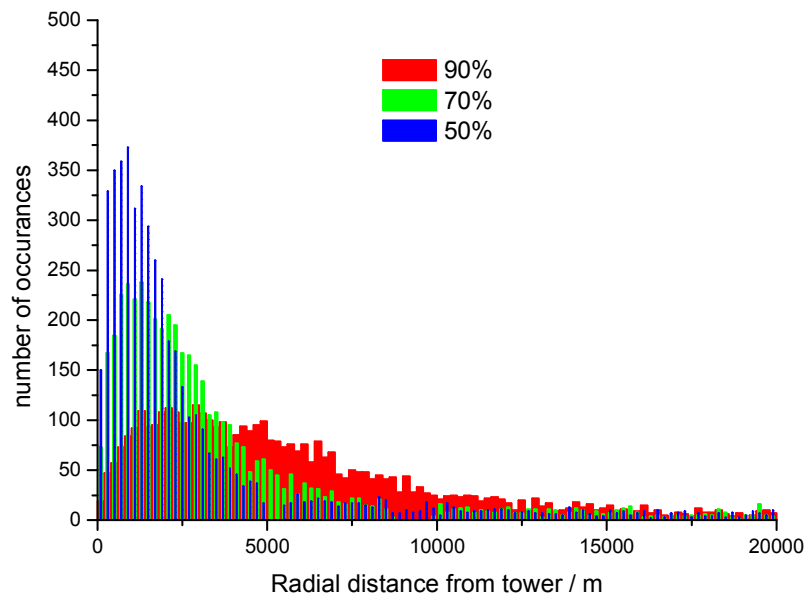
**Figure S1.** Map of the location of the North Kensington site and the BT tower



**Figure S2.** Time series showing (a) NO and NO<sub>2</sub> concentrations at the North Kensington urban background site, (b) NO and NO<sub>2</sub> concentrations at the BT tower and (c) NO and NO<sub>2</sub> fluxes at the BT tower. The left panels show data from June – August 2012 and the right panels show data from March and April 2013.



**Figure S3.** Regression of NO and NO<sub>x</sub> mass mixing ratios between the North Kensington site and BT tower.



**Figure S4.** Flux footprint statistics for the BT tower showing histograms of the distance from the tower where 90%, 70% and 50% of the flux is calculated to originate from.

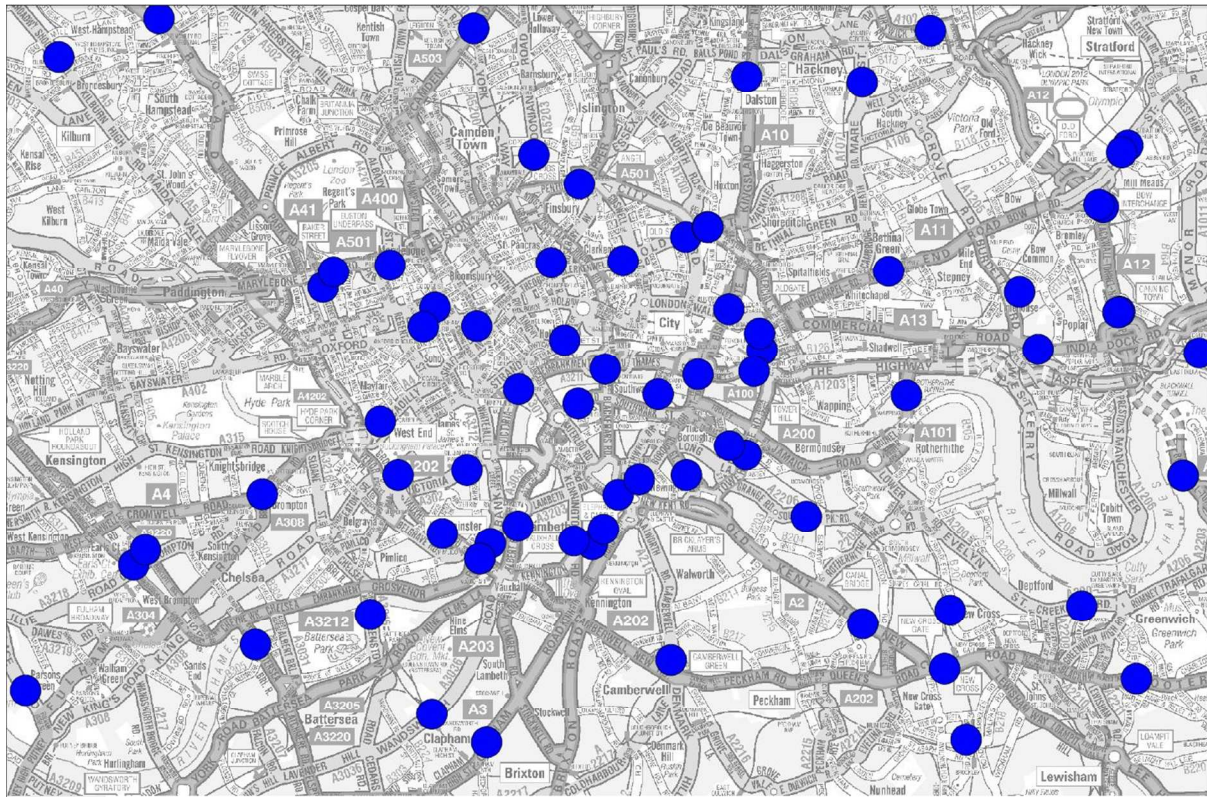
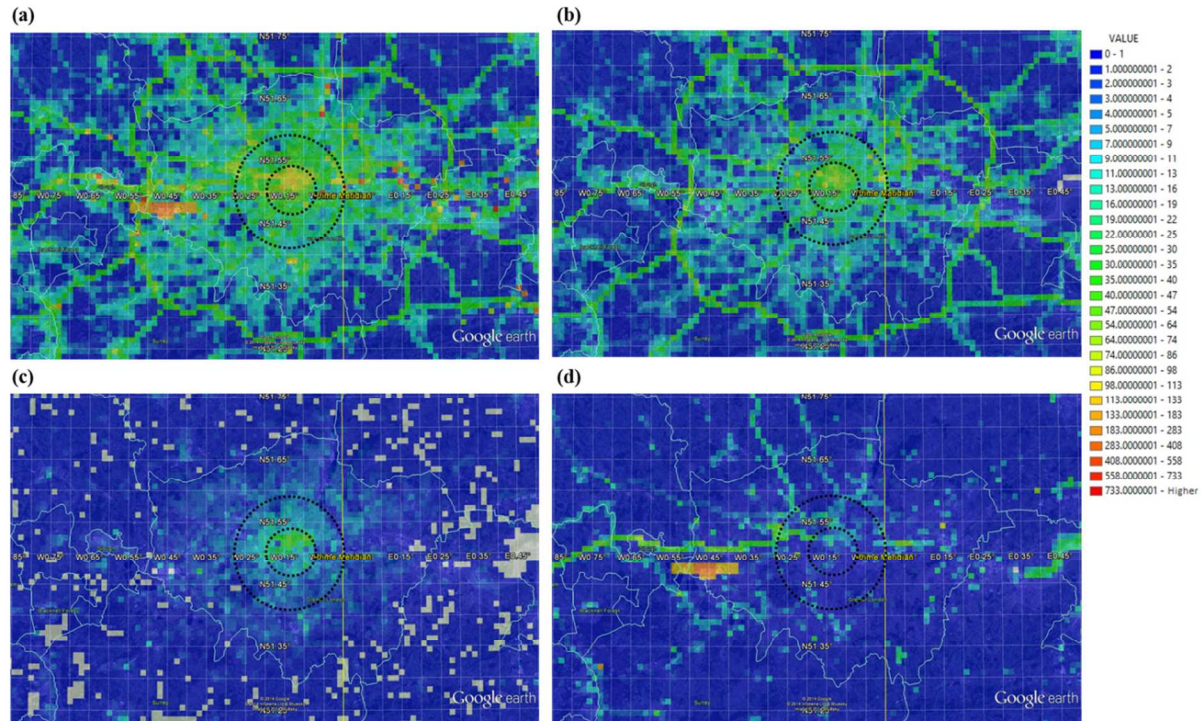


Figure S5. Traffic sites used in the diurnal average of traffic flow calculation in figure 3



**Figure S6.** NAEI NO<sub>x</sub> emissions for London. The map is centre on the BT tower and the dashed circles show 5km and 10km footprints of the measurements. (a) shows total NO<sub>x</sub> emissions, (b) road transport, (c) domestic, industrial and commercial combustion and (d) other transport (rail and shipping). The scale is in Tonnes km<sup>-2</sup> yr<sup>-1</sup>.