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Supplementary Materials for

Abrupt recent trend changes in atmospheric nitrogen dioxide over the Middle East

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Fig. S1. NO₂ column densities over 18 cities in the Middle East. Fig. S2. Tropospheric NO₂ column density changes in 10¹⁵ molecules/cm² between 2005 and 2014.

Supplementary Materials

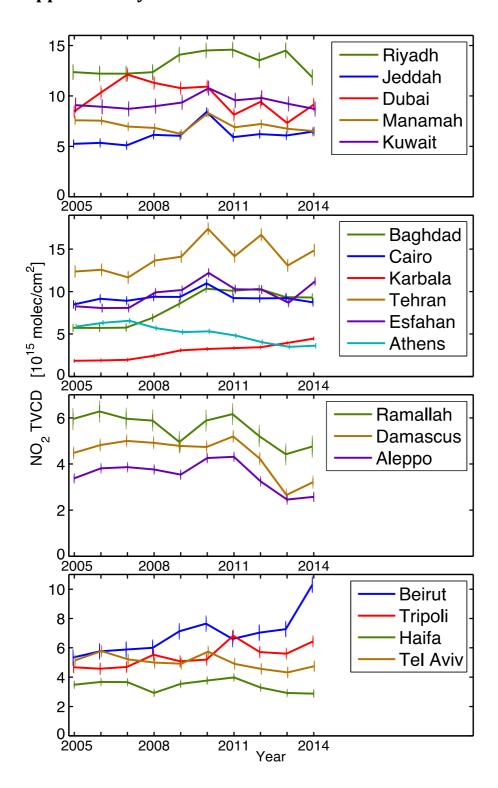


Fig. S1. NO₂ column densities over 18 cities in the Middle East. Annual mean NO₂ during 2005 - 2014, indicating NO_x emission trend changes around 2010. The surface area considered is $30x30 \text{ km}^2$ (*cf.* $100x100 \text{ km}^2$ in Fig. 2). Vertical bars represent the standard error of the mean.

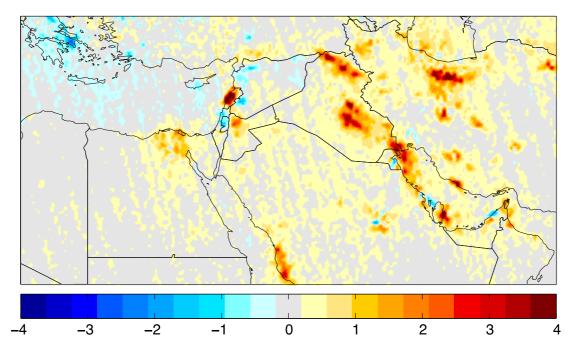


Fig. S2. Tropospheric NO $_2$ column density changes in $10^{15}\ molecules/cm^2$ between 2005 and 2014.