



Supplement of

A new Differential Optical Absorption Spectroscopy instrument to study atmospheric chemistry from a high-altitude unmanned aircraft

Jochen Stutz et al.

Correspondence to: Jochen Stutz (jochen@atmos.ucla.edu)

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Figure S1. Daytime portion of ATTREX Science Flight 3 on Feb. 14, 2013. The aircraft altitude is color coded. Three vertical maneuvers can be clearly identified.



Figure S2. Sensitivity runs 0 (base run), 1, and 2 for NO₂, according to the parameters given in Table 5.



Figure S3. Sensitivity runs 0 (base run), 3, 4, 5, and 6 for NO_2 , according to the parameters given in Table 5.



Figure S4. Sensitivity runs 0 (base run), 7, 8, 9, and 10 for NO₂, according to the parameters given in Table 5.



Figure S5. Sensitivity runs 0 (base run), 11, 12, and 13 for NO₂, according to the parameters given in Table 5.



Figure S6. Sensitivity runs 0 (base run), 14, and 15 for NO₂, according to the parameters given in Table 5.



Figure S7. Sensitivity runs 0 (base run), 16, 17, and 18 for NO₂, according to the parameters given in Table 5.



Figure S8. Sensitivity runs 0 (base run), 19, 20, and 21 for NO_2 , according to the parameters given in Table 5.



Figure S9. Sensitivity runs 0 (base run), 22, 23, and 24 for NO₂, according to the parameters given in Table 5.



Figure S10. Sensitivity runs 0 (base run), 25, and 26 for NO₂, according to the parameters given in Table 5.



Figure S11. Sensitivity runs 0 (base run), 1, and 2 for BrO, according to the parameters given in Table 5.



Figure S12. Sensitivity runs 0 (base run), 3, 4, 5, and 6 for BrO, according to the parameters given in Table 5.



Figure S13. Sensitivity runs 0 (base run), 7, 8, 9, and 10 for BrO, according to the parameters given in Table 5.



Figure S14. Sensitivity runs 0 (base run), 11, 12, and 13 for BrO, according to the parameters given in Table 5.



Figure S15. Sensitivity runs 0 (base run), 14, and 15 for BrO, according to the parameters given in Table 5.



Figure S16. Sensitivity runs 0 (base run), 16, 17, and 18 for BrO, according to the parameters given in Table 5.



Figure S17. Sensitivity runs 0 (base run), 19, 20, and 21 for BrO, according to the parameters given in Table 5.



Figure S18. Sensitivity runs 0 (base run), 22, 23, and 24 for BrO, according to the parameters given in Table 5.



Figure S19. Sensitivity runs 0 (base run), 25, and 26 for BrO, according to the parameters given in Table 5.