

Vertical profile of atmospheric dimethyl sulfide in the Arctic Spring and Summer

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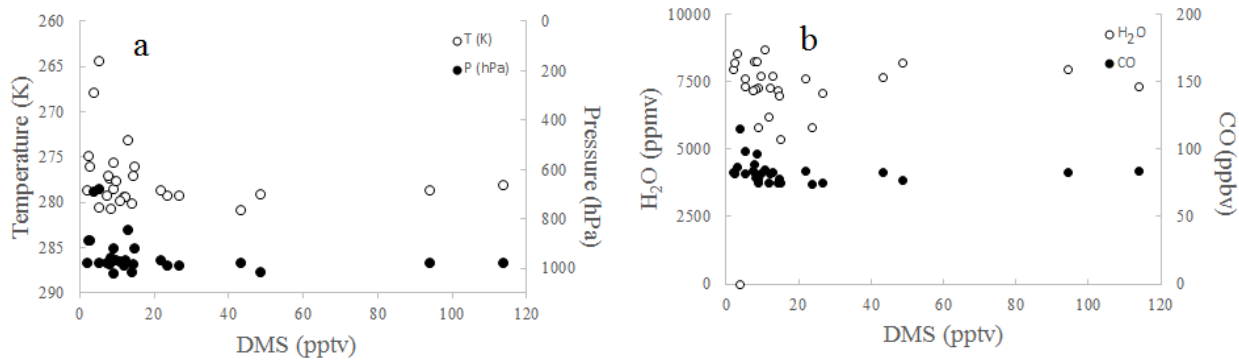


Figure S1. Temperature (K) and pressure (hPa) versus DMS mixing ratio (pptv) (a), H₂O (ppmv) and CO (ppbv) mixing ratios versus DMS mixing ratio (pptv) (b) during July 2014. Closed circles are used to show pressure and CO mixing ratios, and open circles are used to show temperature and H₂O mixing ratios. There was no correlation in July 2014 ($R^2=0.04$) between DMS mixing ratios and pressure.

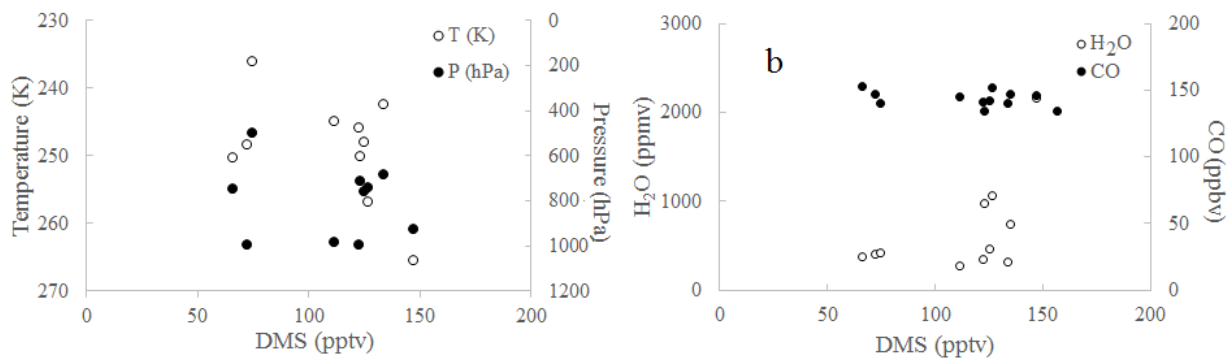


Figure S2. Temperature (K) and pressure (hPa) versus DMS mixing ratio (pptv) (a), H₂O (ppmv) and CO (ppbv) mixing ratios versus DMS mixing ratio (pptv) (b) during April 2015. Closed circles are used to show pressure and CO mixing ratios, and open circles are used to show temperature and H₂O mixing ratios. There was a weak correlation in April 2015 ($R^2=0.17$) between DMS mixing ratios and pressure.

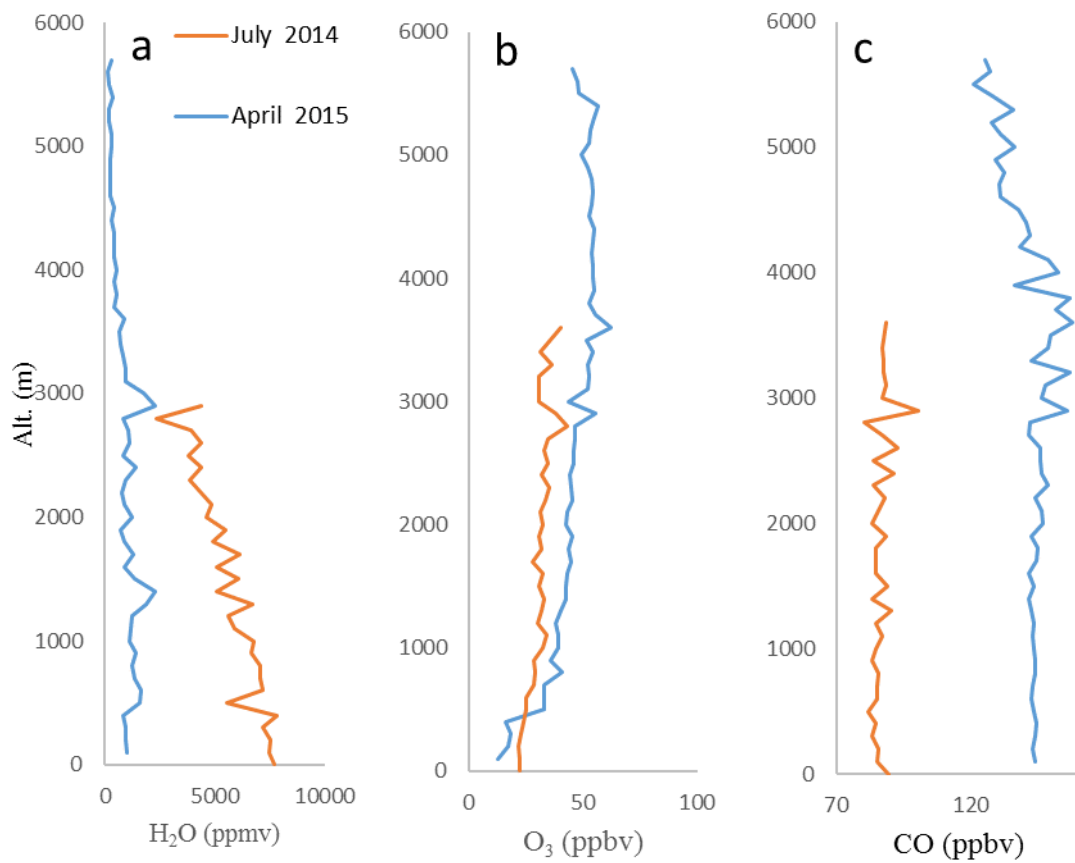


Figure S3. Average vertical profile of H_2O (g) (a) and O_3 (b) and CO (c) during July 2014 (orange) and April 2015 (blue).

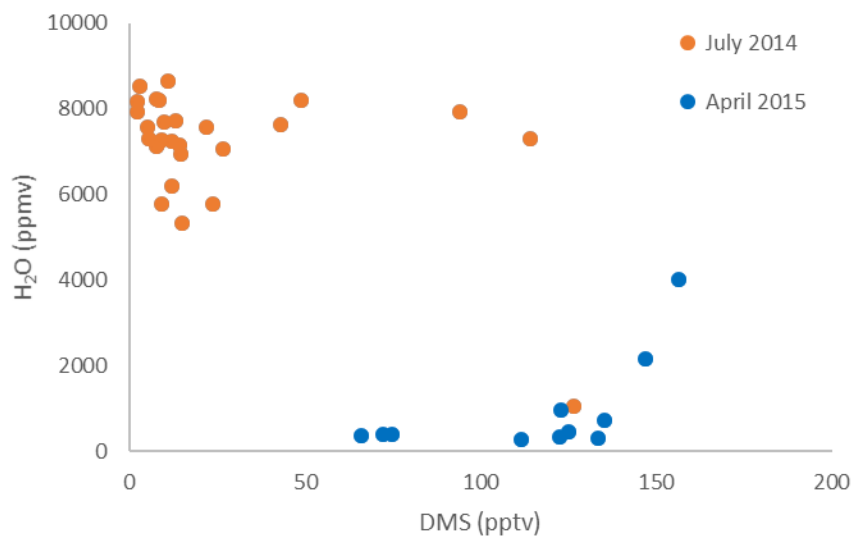


Figure S4. Concurrent measurements of H₂O(g) versus DMS for July 2014 (orange) and April 2015 (blue) campaigns.