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Supplement of

Dimethyl sulfide and its role in aerosol formation and growth in the Arctic summer – a modelling study

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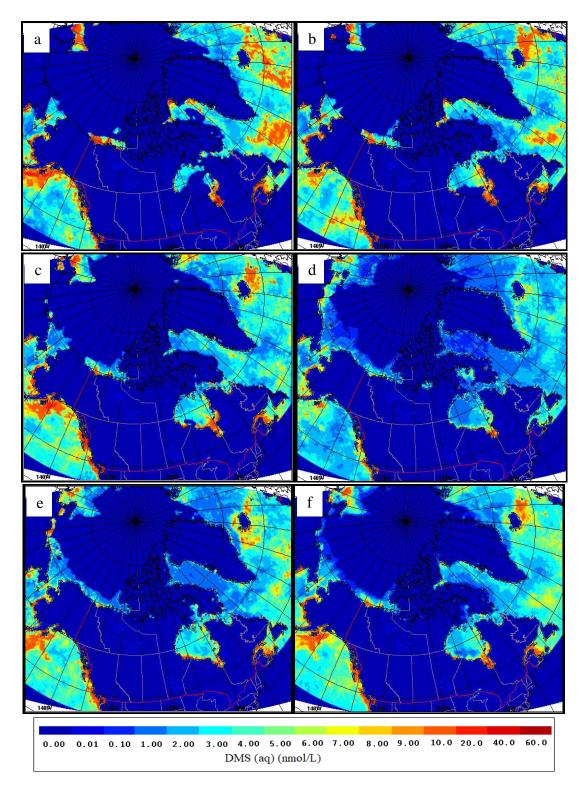
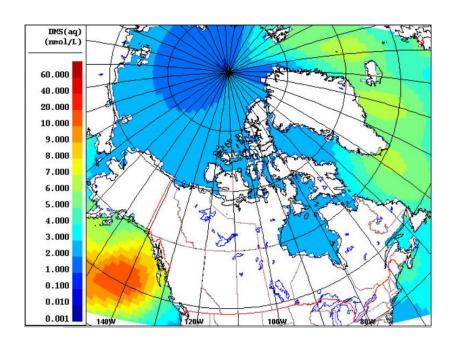


Figure S1: SAT DMS(aq) (nmol/L) for a. July 1^{st} to 3^{rd} , b. July 4^{th} to 11^{th} , c. July 12^{th} to 19^{th} , d. July 20^{th} to July 27^{th} , e. July 28^{th} to August 4^{st} , and f. August 5^{th} to 8^{th} , 2014.



 $\label{eq:solution:solution} Figure~S2: August~average~of~the~CLIM11~DMS (aq)~concentrations~(nmol/L).$

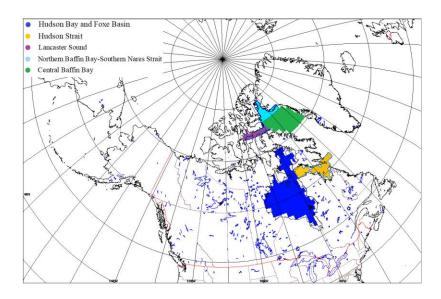


Figure S3. Locations with the updated CLIM11 DMS(aq) concentration values for the HS-HB and CLIM11+ave-Obs sensitivity runs.

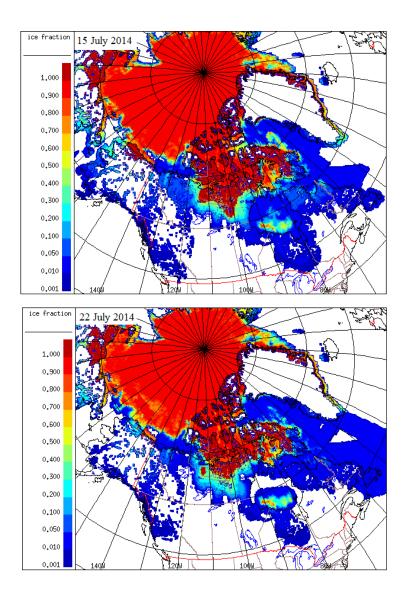


Figure S4: Ice fraction for July 15^{th} (upper panel) and July 22^{nd} (lower panel), 2014.