# Supplementary Information for

## Evaluating the impact of blowing snow sea salt aerosol on Arctic springtime BrO and O$_3$ in the Arctic

Jiayue Huang, Lyatt Jaeglé, Qianjie Chen, Becky Alexander, Tomas Sherwen, Mat J. Evans, Nicolas Theys, and Sungyeon Choi
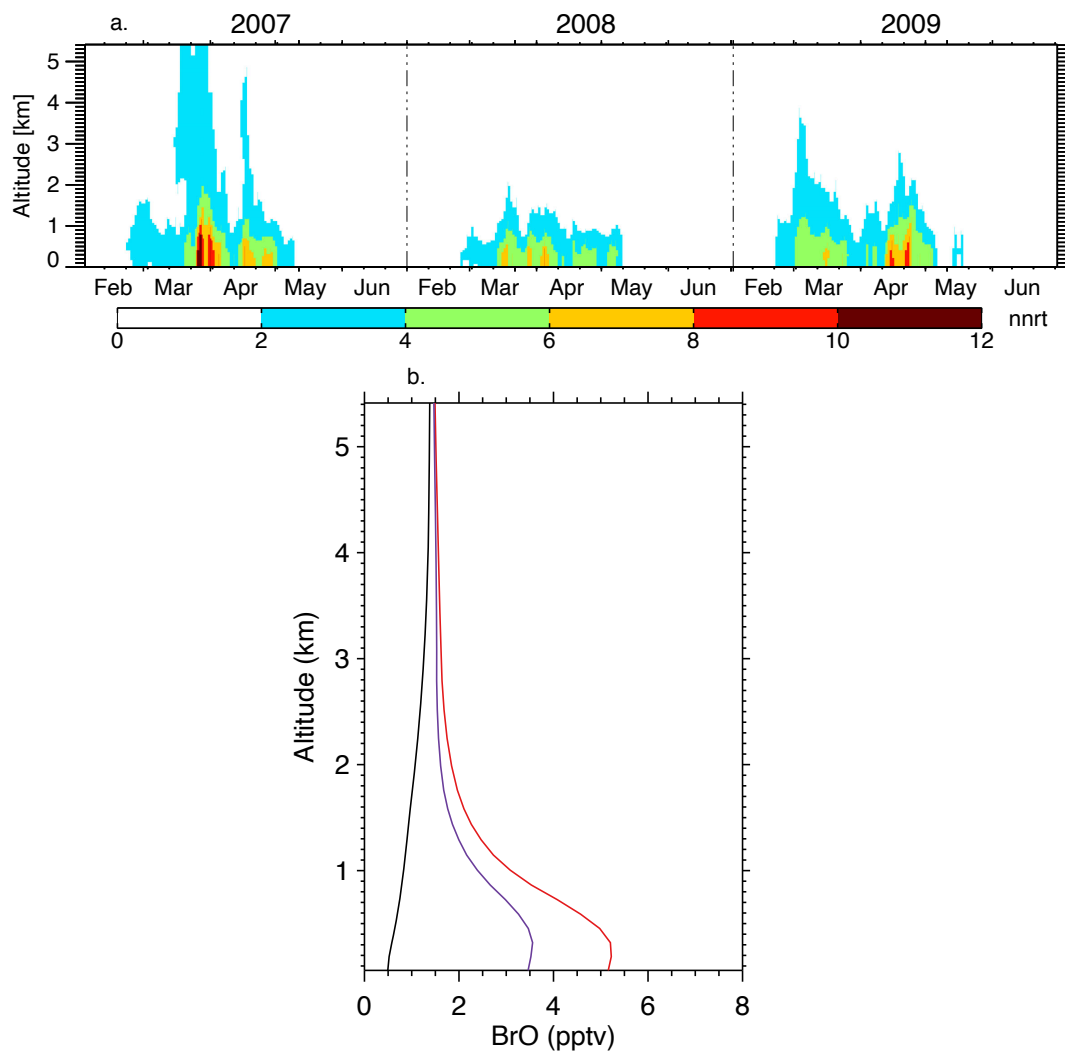
**Figure S1: (a) Timeseries of daily BrO mixing ratio (in pptv) averaged poleward of 60° N in the GEOS-Chem FYI+MYI Snow simulation between February and June for 2007−2009. Note that the model is sampled between 9 and 11 am local time. (b) Mean vertical profile of BrO (9-11 am local time) averaged poleward of 60° N for March and April 2007-2009 in the STD simulation (black line), FYI Snow simulation (purple), and FYI+MYI simulation (red).**
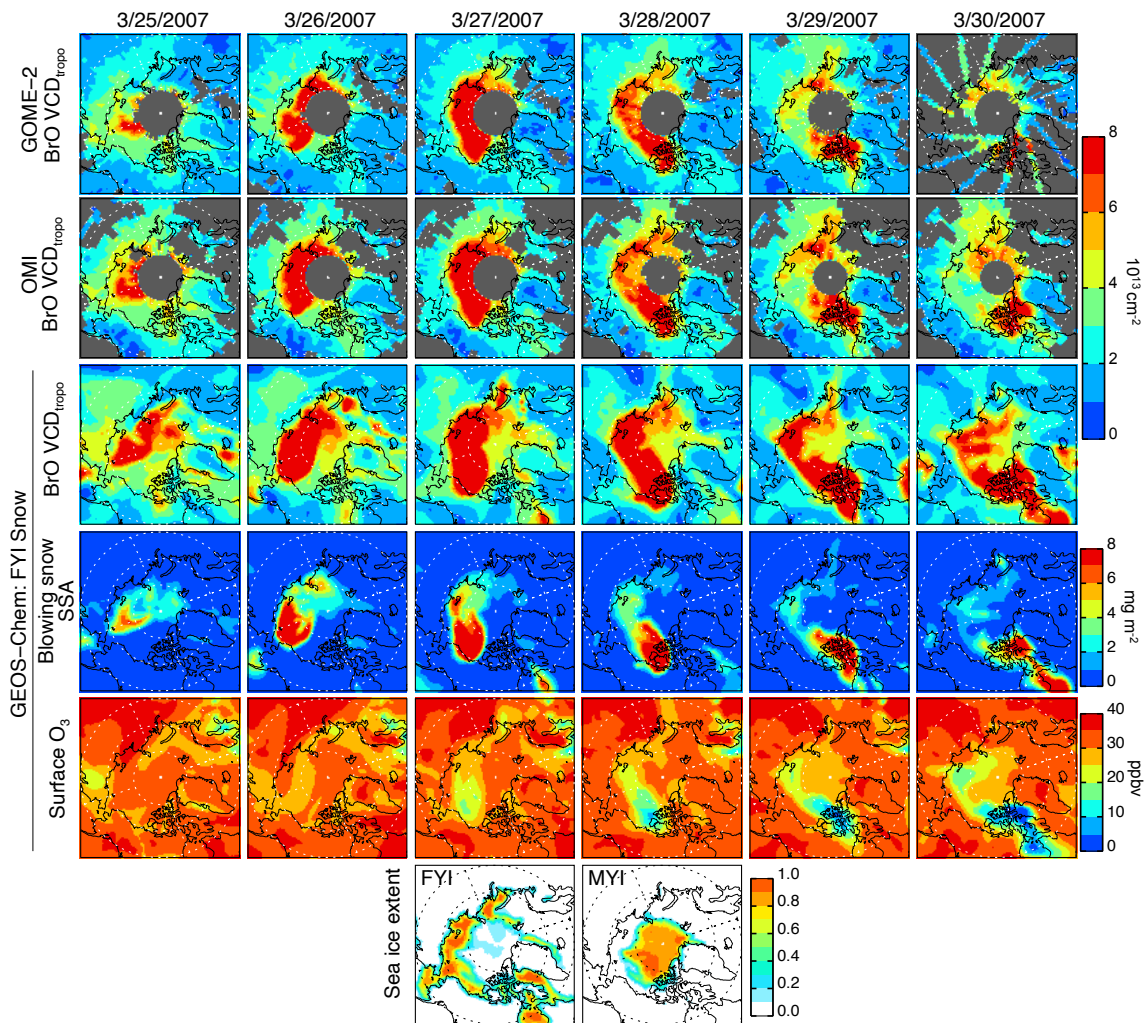
**Figure S2: Same as Figure 5, but showing the results of the GEOS-Chem FYI Snow simulation for 25-30 March 2007.**