



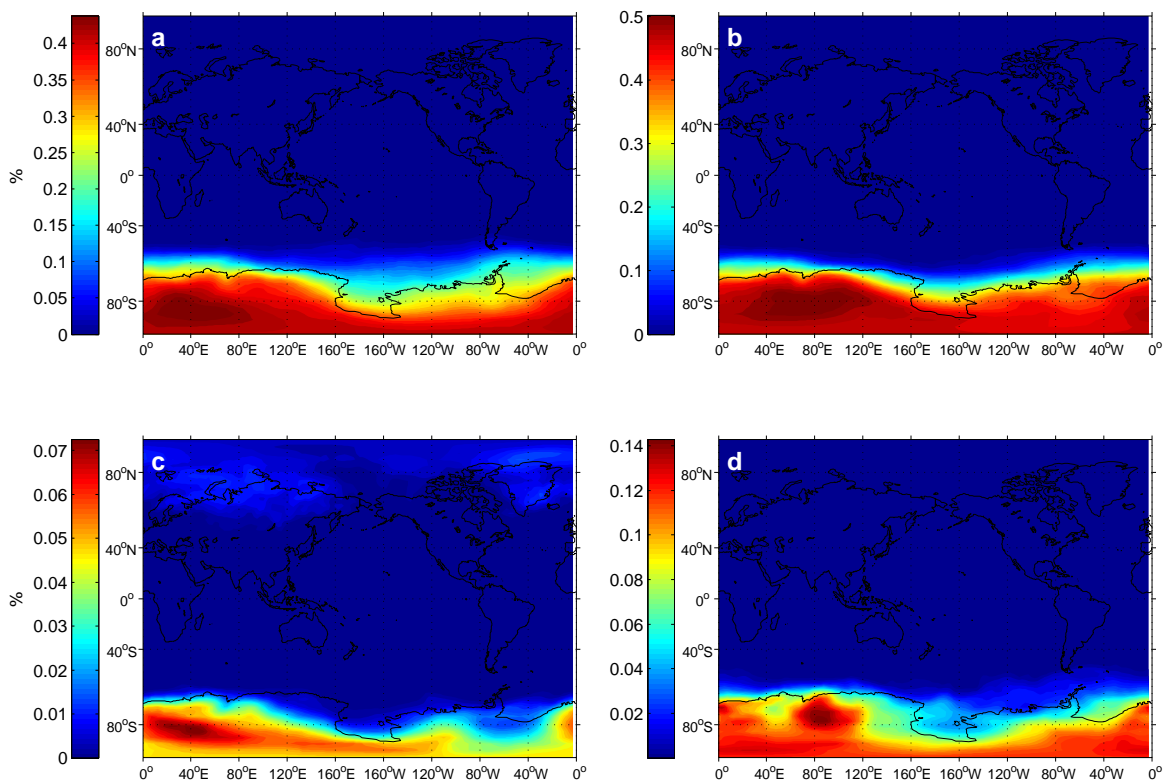
*Supplement of*

## **Understanding cirrus ice crystal number variability for different heterogeneous ice nucleation spectra**

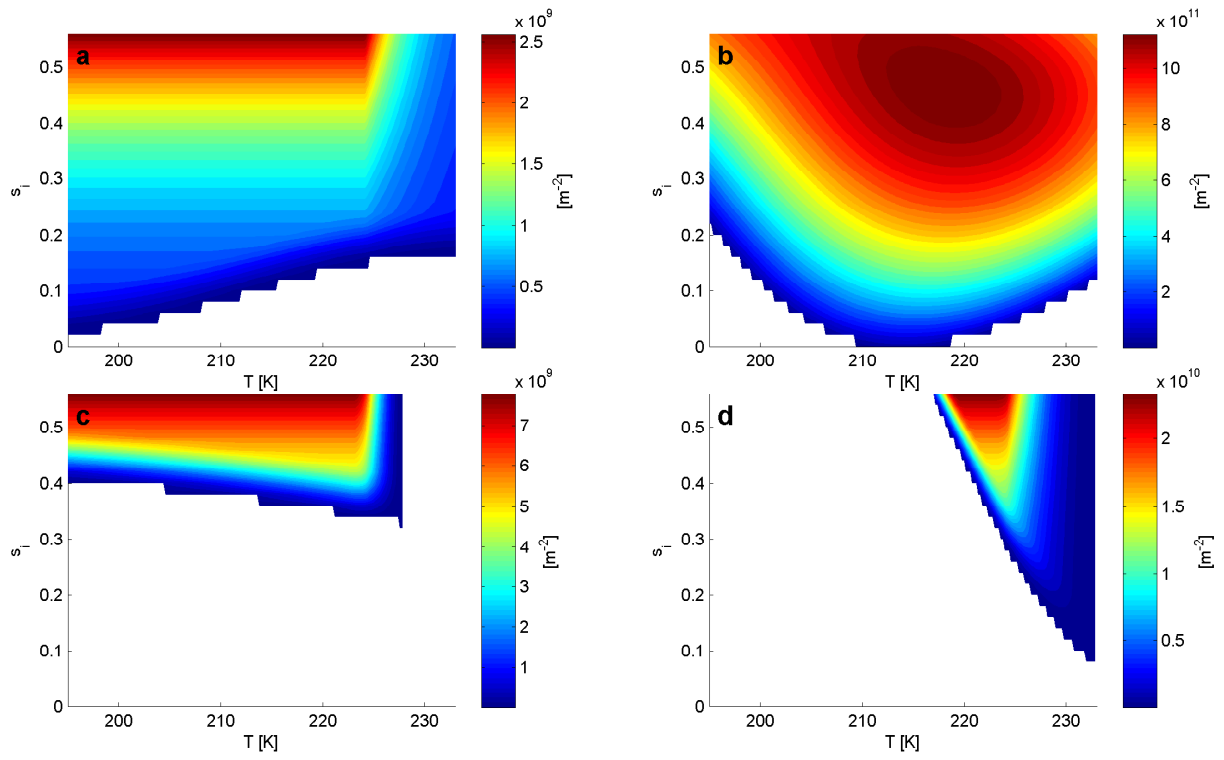
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**Figure 1.** Seasonally-averaged contribution of glassy organic aerosol to heterogeneously-formed  $N_i$  within PDA13: **(a)** June, July, August; **(b)** September, October, November; **(c)** December, January, February; and **(d)** March, April, May



**Figure 2.** Active site density,  $n_s$ , as a function of supersaturation with respect to ice,  $s_i$ , and sub-zero temperature for (a) dust and metallics in PDA08 and PDA13, (b) hematite dust in AIDA, (c) BC in PDA13, and (d) BC in PDA08.