Supplementary information

Characterization of aerosol number size distributions and their effect on cloud properties at Syowa Station, Antarctica

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Figure S1: Five-day backward trajectory under conditions with appearance of a quad modal structure including fresh nucleation mode at Syowa Station during 2004–2006. Altitude represents height above ground level. Trajectory was calculated from altitude at 500 m above ground level over Syowa Station (69°S).
Figure S2: Seasonal variations of coagulation sink and e-folding time by coagulation loss at Syowa Station, Antarctica during 2004–2006.
Figure S3: Cloud amounts for (a) 1969–1979 and 1980–2012, and (b) 1969–1979 and 1990–2012. $t$ and $p$ respectively denote $t$-values and $p$-values of $t$-tests. Degrees of freedom for the $t$-tests were (a) 86 and (b) 66. The period of 1980–1989 corresponded to ozone hole expansion.