

Table S1: *CN50* budget information for observations at each location, partial survival case (all units of cm^{-3})

	Nucleation <i>CN50</i> only (<i>CN50_{nuc}</i>)	Average <i>CN50</i> , all days	Average <i>CN50</i> , nucleation days only
Pittsburgh, USA (PGH)	1160	6050	5590
Hyytiälä, Finland (HYY)	510	930	880
Atlanta, USA (ATL)	780	9050	7270
St. Louis, USA (STL)	1040	7200	6310
San Pietro Capiofume, Italy (SPC)	1090	25000	19500

Table S2: *CN100* budget information for observations at each location, partial survival case (all units of cm^{-3})

	Nucleation <i>CN100</i> only (<i>CN100_{nuc}</i>)	Total <i>CN100</i> , all days	Total <i>CN100</i> , nucleation days only
Pittsburgh, USA (PGH)	220	1900	1410
Hyytiälä, Finland (HYY)	80	550	520
Atlanta, USA (ATL)	45	3590	2200
St. Louis, USA (STL)	200	1700	1180
San Pietro Capirofume, Italy (SPC)	470	13400	10500