Conditions and seasons	N_{CN} (cm^{-3})	erf fit	Mode	a_{mode}	S_{mode} (%)	w_{mode}	R^2	Comment
Empirically pristine rain forest (PR) aerosol ($PR_{BC \cap CO}$ filter)	260 ± 3	Single	1	1	0.43 ± 0.01	1.61 ± 0.07	0.99	
		Double	1	1	0.11 ± 0.01	0.46 ± 0.30	0.99	
			2	0.21 ± 0.09	0.61 ± 0.08	1.13 ± 0.20		
Long-range transport (LRT) aerosol	439 ± 3	Single	1	1	0.09 ± 0.01	1.92 ± 0.15	0.97	Fit parameters for CCN efficiency spectra representing
Biomass burning (BB) aerosol	3584 ± 28	Single	1	1	0.15 ± 0.01	1.15 ± 0.13	0.96	conditions defined in present work
			1	0.93 ± 0.01	0.14 ± 0.01	0.89 ± 0.06	0.99	
Mixed pollution (MPOL) aerosol MPOL-LRT	1277 ± 6	Single	1	1	0.16 ± 0.01	1.70 ± 0.08	0.99	
MPOL-BB	2777 ± 38	Single	1	1	0.28 ± 0.01	1.60 ± 0.04	0.99	
Wet season	323 ± 2	Single	1	1	0.35 ± 0.01	1.80 ± 0.06	0.99	
LRT season	426 ± 3	Single	1	1	0.22 ± 0.01	2.39 ± 0.10	0.98	Fit parameters for seasonal CCN efficiency spectra
Transitions periods	943 ± 4	Single	1	1	0.28 ± 0.01	1.70 ± 0.05	0.99	from Part 1 study (Pöhlker et al., 2016)
Dry season	1528 ± 5	Single	1	1	0.18 ± 0.01	1.57 ± 0.11	0.98	
"Cloud-processed smoke" conditions	2000–8000	Single	1	1	0.47 ± 0.02	1.64 ± 0.15	0.97	Fit parameters for CCN efficiency spectra for biomass
"Fresh smoke" conditions	2000–8000	Single	1	1	1.00 ± 0.05	1.56 ± 0.12	0.98	burning smoke conditions from Andreae et al. (2004)
Wet-season period (Mar/Apr 1998)	390 ± 250	Single	1	1	0.62 ± 0.02	1.46 ± 0.07	0.99	Fit parameters for CCN efficiency spectra representing wet-season period from Roberts et al. (2001)