



Supplement of

Cloud activation properties of aerosol particles in a continental Central European urban environment

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Table S1. Ranges and medians of the hourly mean ambient air temperature (T , in °C), relative humidity (RH, %), wind speed (WS, m s^{-1}), global solar radiation (GRad>10 W m^{-2} ; W m^{-2}) and atmospheric pressure (P , hPA) at the measurement location in each month of the measurement year.

Month and statistics	T	RH	WS	GRad	P
April					
Min	0.7	12	0.2	10	994.2
Median	13.8	41	1.9	415	1006.5
Max	28.5	91	7.5	858	1019.4
May					
Min	5.9	28	0.3	11	988.3
Median	14.8	74	1.6	199	998.6
Max	26.9	100	4.7	921	1009.2
June					
Min	15.5	25	0.2	10	996.9
Median	24.4	60	1.7	453	1002.7
Max	34.8	98	6.0	940	1011.8
July					
Min	14.9	24	0.3	10	987.6
Median	23.5	51	1.6	432	1000.2
Max	36.6	99	4.6	939	1009.2
August					
Min	14.5	25	0.2	10	995.1
Median	24.2	60	1.5	385	1002.6
Max	35.0	95	4.4	890	1011.3
September					
Min	9.2	27	0.3	10	993.8
Median	18.3	60	1.4	308	1004.0
Max	32.2	98	5.4	766	1016.3
October					
Min	2.8	36	0.2	11	989.8
Median	14.1	70	1.2	255	1004.9
Max	24.9	95	6.6	616	1014.3
November					
Min	2.2	46	0.3	11	982.3
Median	9.9	86	1.5	86	998.9
Max	18.2	100	6.0	429	1011.6
December					
Min	-5.7	0	0.0	10	972.7
Median	4.1	84	1.8	97	1005.2
Max	14.6	100	6.7	344	1024.7
January					
Min	-3.7	41	0.3	10	990.1
Median	0.3	89	1.3	74	1015.1
Max	14.9	100	7.1	354	1033.0
February					
Min	-0.3	25	0.3	10	980.8
Median	6.9	63	1.7	203	1005.2
Max	17.4	96	7.7	566	1019.4
March					
Min	-0.4	13	0.2	10	984.1
Median	8.0	56	1.8	243	1004.4
Max	20.6	100	6.6	807	1017.8

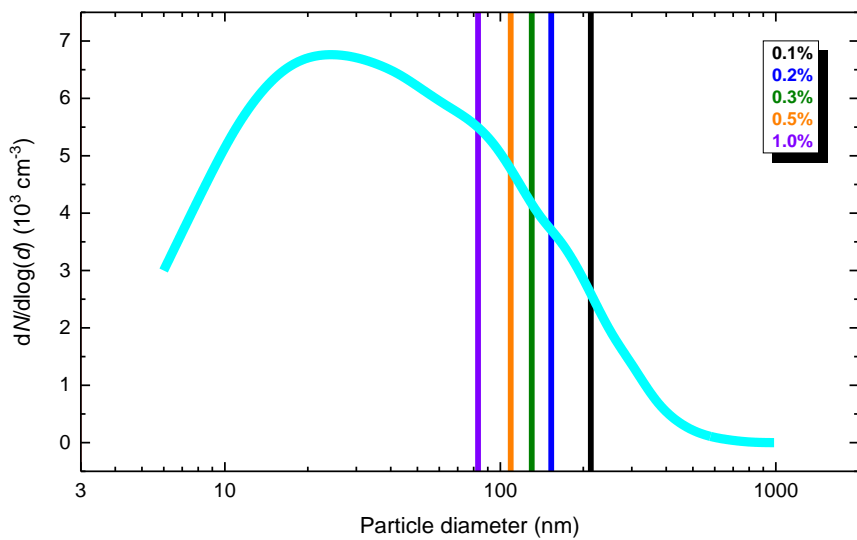


Figure S1. Median particle number size distribution for the whole measurement year with the effective critical dry particle diameters at 207, 149, 126, 105 and 80 nm, respectively (vertical lines) derived for supersaturations of 0.1, 0.2, 0.3, 0.5 and 1.0 %.

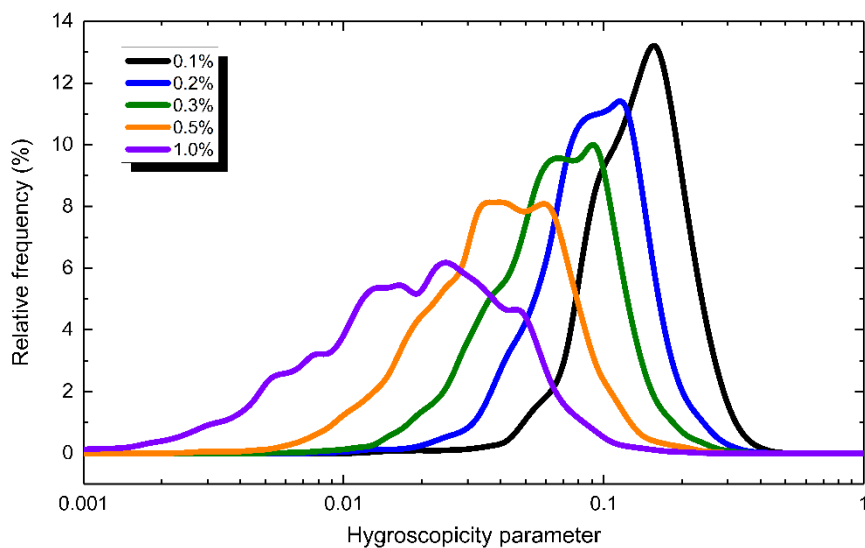


Figure S2. Differential frequency distributions of hygroscopicity parameter at supersaturations of 0.1, 0.2, 0.3, 0.5 and 1.0 % normalised to the total count of the parameter data.