

## Annex

Parameter	Station/area	<i>a</i>	<i>b</i>	<i>R</i> <sup>2</sup>	Linear trend plot
Days with fog	B	-0.0454	1.1569	0.44*	Fig. 2a
	BG	-0.058	1.4768	0.72*	
	B and BG	-0.0516	1.3165	0.56*	Fig. 3a
	B only	0.0057	-0.1444	0.01	
	BG only	-0.055	1.399	0.63*	
Days with dense fog	B	-0.0499	1.2746	0.53*	Fig. 2b
	BG	-0.0479	1.2251	0.50*	Fig. 3b
	B and BG	-0.0495	1.2625	0.52*	
	B only	-0.0362	0.946	0.28*	
	BG only	-0.0175	0.4256	0.06	
Days with fog lasting all day long	B	-0.0359	0.9037	0.26*	Fig. 2c
	BG	-0.0472	1.2084	0.47*	
Days with fog observed only at 6 UTC	B	-0.0447	1.1423	0.42*	Fig. 2d
	BG	-0.0566	1.4406	0.68*	Fig. 3c
	B and BG	-0.0467	1.1918	0.45*	
	B only	0.0048	-0.1342	0.005	
	BG only	-0.0529	1.3481	0.59*	
Days with fog favoring circulation types	Southern Poland	0.0089	-0.2392	0.02	Fig. 4
Days with fog limiting circulation types		-0.035	0.9448	0.24	
Days with RH ≥ 80%	B	-0.0521	1.0916	0.35*	Fig. 5
	BG	-0.0484	1.0139	0.30*	
Days with RH ≥ 95%	B	-0.0556	1.1685	0.40*	Fig. 6
	BG	-0.0522	1.0979	0.35*	
Days with wind speed ≤ 2 m s <sup>-1</sup> at 6 UTC	B	-0.0668	2.4056	0.37*	Fig. 6
	BG	-0.0384	1.3793	0.12*	
Days with wind speed ≤ 2 m s <sup>-1</sup> at all measurement times	B	-0.0638	2.2971	0.34*	Fig. 6
	BG	-0.0599	2.1555	0.30*	
Days with atmospheric calm at all times	B	-0.0679	2.4429	0.38*	Fig. 6
	BG	-0.0693	2.4918	0.39*	
SO <sub>2</sub> concentration	City Center	-0.0803	1.6459	0.64*	Fig. 7
	Nowa Huta	-0.0372	0.7632	0.14*	
TSP concentration	City Center	-0.0974	1.9969	0.94*	Fig. 7
	Nowa Huta	-0.095	1.9497	0.90*	

\* trend statistically significant (p<0.01)