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Supplementary Information of

Atmospheric ducts in the Baltic Sea region 1940–2025

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Table S1: Trends in atmospheric conditions at 10 m, surface-duct height, and surface-duct occurrence, calculated using the trend-free pre-whitening Mann–Kendall test and Sen's slope estimator. The standardized Mann–Kendall statistic is denoted by Z, the p-value by p, and Sen's slope, representing the annual rate of change, by β. Values of $p < 0.05$ are shown in boldface. Results are presented for each season for the full time series (1940–2025, sample size $n = 86$) and the most recent 20 years (2006–2025, sample size $n = 20$). Regions are labeled R1–R9.

		DJF						**MAM**						**JJA**						**SON**					
		1940–2025			2006–2025			1940–2025			2006–2025			1940–2025			2006–2025			1940–2025			2006–2025		
		Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β
Conditions at 10m (M km^{-1})	**R1**	3.38	**0.00**	0.08	0.14	0.89	0.14	-5.73	**0.00**	-0.22	-1.96	0.05	-0.65	2.66	**0.01**	0.23	0.63	0.53	0.85	7.72	**0.00**	0.38	0.77	0.44	0.47
	R2	5.36	**0.00**	0.14	0.35	0.73	0.13	-5.09	**0.00**	-0.17	-2.94	**0.00**	-1.01	3.15	**0.00**	0.24	-1.26	0.21	-0.89	7.21	**0.00**	0.29	-0.42	0.67	-0.06
	R3	5.53	**0.00**	0.14	0.00	1.00	0.02	-3.81	**0.00**	-0.12	-3.50	**0.00**	-1.61	4.94	**0.00**	0.37	-2.52	**0.01**	-1.88	3.40	**0.00**	0.15	-1.54	0.12	-0.60
	R4	3.65	**0.00**	0.08	-0.98	0.33	-0.24	-7.44	**0.00**	-0.50	-2.45	**0.01**	-1.75	1.19	0.23	0.10	-3.64	**0.00**	-1.94	-1.44	0.15	-0.06	-2.73	**0.01**	-1.62
	R5	2.52	**0.01**	0.06	-1.47	0.14	-0.30	-4.29	**0.00**	-0.17	-3.08	**0.00**	-1.75	4.22	**0.00**	0.31	-2.59	**0.01**	-2.05	-0.91	0.36	-0.02	-2.66	**0.01**	-1.25
	R6	-0.38	0.70	-0.00	-1.89	0.06	-0.60	-6.33	**0.00**	-0.32	-3.36	**0.00**	-1.81	2.85	**0.00**	0.20	-2.45	**0.01**	-1.66	-4.79	**0.00**	-0.21	-3.57	**0.00**	-1.59
	R7	3.66	**0.00**	0.09	-1.47	0.14	-0.33	-4.11	**0.00**	-0.15	-2.52	**0.01**	-1.30	6.62	**0.00**	0.49	-0.77	0.44	-0.44	1.52	0.13	0.08	-2.94	**0.00**	-0.92
	R8	3.42	**0.00**	0.10	-2.10	**0.04**	-0.48	-4.40	**0.00**	-0.15	-3.15	**0.00**	-1.59	8.41	**0.00**	0.69	-0.91	0.36	-0.50	3.03	**0.00**	0.13	-2.80	**0.01**	-0.94
	R9	2.27	**0.02**	0.06	-2.45	**0.01**	-0.50	-3.52	**0.00**	-0.14	-2.80	**0.01**	-1.62	6.94	**0.00**	0.55	-2.31	**0.02**	-1.80	3.73	**0.00**	0.13	-2.45	**0.01**	-0.86
Surface duct height (m)	**R1**	-0.60	0.55	-0.00	2.59	**0.01**	0.02	3.25	**0.00**	0.02	0.77	0.44	-0.01	-0.03	0.98	-0.00	1.19	0.23	0.07	0.69	0.49	0.00	0.56	0.58	0.02
	R2	1.10	0.27	0.00	2.38	**0.02**	0.03	3.15	**0.00**	0.02	-0.28	0.78	0.03	-1.32	0.19	-0.02	0.14	0.89	-0.08	1.74	0.08	0.00	1.05	0.29	0.00
	R3	1.74	0.08	0.00	1.26	0.21	0.02	4.10	**0.00**	0.04	0.28	0.78	0.08	0.34	0.74	0.00	0.84	0.40	0.01	1.22	0.22	0.00	1.40	0.16	0.02
	R4	1.64	0.10	0.00	2.87	**0.00**	0.02	6.11	**0.00**	0.06	0.00	1.00	-0.00	1.80	0.07	0.03	-0.42	0.67	-0.13	2.74	**0.01**	0.01	2.87	**0.00**	0.07
	R5	1.39	0.16	0.00	1.82	0.07	0.03	3.74	**0.00**	0.04	0.00	1.00	-0.01	-1.19	0.23	-0.02	0.91	0.36	0.04	2.62	**0.01**	0.01	2.94	**0.00**	0.04
	R6	2.57	**0.01**	0.00	3.50	**0.00**	0.04	4.73	**0.00**	0.05	-0.35	0.73	-0.08	0.80	0.42	0.01	1.40	0.16	0.12	3.05	**0.00**	0.01	3.36	**0.00**	0.11
	R7	2.55	**0.01**	0.00	2.80	**0.01**	0.04	3.35	**0.00**	0.03	-0.56	0.58	-0.01	-0.97	0.33	-0.02	1.12	0.26	0.08	2.13	**0.03**	0.01	2.24	**0.03**	0.06
	R8	4.00	**0.00**	0.00	1.82	0.07	0.03	3.23	**0.00**	0.03	-0.84	0.40	-0.06	0.68	0.50	0.00	0.84	0.40	0.05	2.37	**0.02**	0.01	2.31	**0.02**	0.08
	R9	3.09	**0.00**	0.01	1.54	0.12	0.02	3.86	**0.00**	0.03	-0.21	0.83	-0.00	1.29	0.20	0.01	0.00	1.00	-0.05	3.12	**0.00**	0.01	2.10	**0.04**	0.05
Surface duct occurrence (%)	**R1**	-1.52	0.13	-0.00	1.96	0.05	0.04	6.90	**0.00**	0.10	2.73	**0.01**	0.33	-1.06	0.29	-0.03	-0.14	0.89	-0.15	-5.29	**0.00**	-0.09	0.07	0.94	0.03
	R2	-0.85	0.40	-0.01	2.24	**0.03**	0.11	7.44	**0.00**	0.09	3.29	**0.00**	0.54	-1.18	0.24	-0.03	1.82	0.07	0.37	-3.03	**0.00**	-0.05	3.01	**0.00**	0.20
	R3	-0.24	0.81	-0.01	1.40	0.16	0.12	6.43	**0.00**	0.09	3.43	**0.00**	0.64	-2.17	**0.03**	-0.06	2.80	**0.01**	0.63	-0.28	0.78	-0.01	2.80	**0.01**	0.33
	R4	-1.33	0.18	-0.01	2.59	**0.01**	0.14	8.18	**0.00**	0.18	3.08	**0.00**	0.66	-0.26	0.79	-0.01	3.57	**0.00**	0.59	3.18	**0.00**	0.04	3.50	**0.00**	0.62
	R5	1.22	0.22	0.00	2.10	**0.04**	0.23	6.40	**0.00**	0.10	3.15	**0.00**	0.70	-1.19	0.23	-0.04	2.73	**0.01**	0.59	3.37	**0.00**	0.05	3.01	**0.00**	0.54
	R6	2.15	**0.03**	0.01	3.71	**0.00**	0.38	7.44	**0.00**	0.14	2.94	**0.00**	0.71	0.20	0.84	-0.00	2.87	**0.00**	0.55	5.53	**0.00**	0.11	3.92	**0.00**	0.70
	R7	0.56	0.58	-0.00	2.73	**0.01**	0.22	6.98	**0.00**	0.11	2.52	**0.01**	0.47	-2.90	**0.00**	-0.07	1.05	0.29	0.14	1.76	0.08	0.02	3.99	**0.00**	0.36
	R8	1.90	0.06	0.01	2.73	**0.01**	0.21	7.75	**0.00**	0.12	2.31	**0.02**	0.48	-4.52	**0.00**	-0.12	0.63	0.53	0.08	0.96	0.34	0.02	3.29	**0.00**	0.39
	R9	2.59	**0.01**	0.02	2.73	**0.01**	0.20	5.58	**0.00**	0.10	2.73	**0.01**	0.61	-5.07	**0.00**	-0.12	1.75	0.08	0.33	-0.40	0.69	-0.01	2.66	**0.01**	0.34

Table S2: Trends in elevated-duct height, elevated-duct thickness, and elevated-duct occurrence, calculated using the trend-free pre-whitening Mann–Kendall test and Sen's slope estimator. The standardized Mann–Kendall statistic is denoted by Z, the p-value by p, and Sen's slope, representing the annual rate of change, by β. Values of $p < 0.05$ *are in boldface. Results are presented for each season for the full time series (1940–2025, sample size* $n = 86$*) and for the most recent 20 years (2006–2025, sample size* $n = 20$*). Regions are labeled R1–R9.*

		DJF						**MAM**						**JJA**						**SON**					
		1940–2025			2006–2025			1940–2025			2006–2025			1940–2025			2006–2025			1940–2025			2006–2025		
		Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β
Elevated duct height (m)	**R1**	-1.64	0.10	-0.51	-2.66	**0.01**	-3.88	1.22	0.22	0.10	2.38	**0.02**	0.76	3.84	**0.00**	0.40	0.70	0.48	0.71	-1.07	0.28	-0.27	0.63	0.53	1.74
	R2	-1.50	0.13	-0.58	-1.82	0.07	-6.03	-0.57	0.57	-0.05	1.19	0.23	1.32	3.46	**0.00**	0.41	0.07	0.94	0.68	-0.07	0.94	0.10	-0.28	0.78	-1.25
	R3	-1.42	0.16	-0.35	-1.12	0.26	-4.25	-2.23	**0.03**	-0.26	0.42	0.67	0.61	2.21	**0.03**	0.32	-0.42	0.67	-0.34	0.91	0.36	0.37	-0.49	0.62	-1.93
	R4	0.22	0.82	0.10	-0.14	0.89	-0.83	-3.22	**0.00**	-0.43	0.84	0.40	1.08	1.88	0.06	0.32	1.61	0.11	3.25	2.67	**0.01**	0.87	1.40	0.16	2.51
	R5	-0.51	0.61	-0.20	0.07	0.94	0.04	-1.93	0.05	-0.25	1.19	0.23	1.68	4.61	**0.00**	0.70	-0.14	0.89	0.82	1.51	0.13	0.65	0.49	0.62	1.46
	R6	0.99	0.32	0.36	0.00	1.00	-1.36	-1.16	0.25	-0.12	-0.14	0.89	1.27	3.34	**0.00**	0.58	-1.05	0.29	-1.18	1.69	0.09	0.62	-0.84	0.40	-1.92
	R7	0.45	0.65	0.17	-0.91	0.36	-4.58	-1.31	0.19	-0.14	0.00	1.00	1.20	3.20	**0.00**	0.53	-0.77	0.44	-0.62	1.94	0.05	0.64	-0.35	0.73	0.37
	R8	1.13	0.26	0.46	0.21	0.83	1.01	-1.08	0.28	-0.16	-0.91	0.36	-1.07	1.58	0.11	0.32	-1.12	0.26	-0.94	2.23	**0.03**	0.75	-0.35	0.73	-0.20
	R9	0.71	0.48	0.25	-0.49	0.62	-2.29	0.77	0.44	0.18	-0.63	0.53	-0.17	1.39	0.16	0.28	-0.56	0.58	-0.53	1.31	0.19	0.47	-0.42	0.67	-1.93
Elevated duct thickness (m)	**R1**	-0.16	0.87	-0.01	-0.91	0.36	-0.04	4.11	**0.00**	0.09	0.35	0.73	0.15	4.48	**0.00**	0.12	2.10	**0.04**	0.20	0.48	0.63	0.00	0.84	0.40	0.20
	R2	-0.91	0.36	-0.03	-1.68	0.09	-0.47	2.47	**0.01**	0.05	2.24	**0.03**	0.29	3.21	**0.00**	0.11	0.28	0.78	-0.12	0.60	0.55	0.02	0.49	0.62	-0.00
	R3	-0.08	0.94	-0.00	-0.91	0.36	-0.48	2.83	**0.00**	0.07	1.89	0.06	0.40	3.28	**0.00**	0.11	1.26	0.21	0.20	0.38	0.70	0.02	1.05	0.29	-0.02
	R4	0.98	0.33	0.04	-0.07	0.94	-0.23	4.88	**0.00**	0.11	1.61	0.11	0.34	3.73	**0.00**	0.11	1.96	0.05	0.61	1.74	0.08	0.07	0.91	0.36	0.31
	R5	0.11	0.91	0.01	-0.49	0.62	-0.39	3.81	**0.00**	0.10	1.96	0.05	0.55	3.69	**0.00**	0.15	0.91	0.36	0.22	1.81	0.07	0.08	0.70	0.48	0.01
	R6	1.66	0.10	0.06	0.91	0.36	0.07	4.78	**0.00**	0.12	2.24	**0.03**	0.55	4.38	**0.00**	0.18	1.61	0.11	0.33	2.11	**0.04**	0.07	0.35	0.73	0.09
	R7	1.42	0.16	0.07	1.05	0.29	0.09	4.40	**0.00**	0.13	0.98	0.33	0.35	4.05	**0.00**	0.18	1.68	0.09	0.30	3.33	**0.00**	0.11	0.49	0.62	0.17
	R8	1.81	0.07	0.08	1.40	0.16	0.07	4.06	**0.00**	0.14	0.07	0.94	0.14	3.55	**0.00**	0.14	1.54	0.12	0.26	2.87	**0.00**	0.11	0.49	0.62	0.14
	R9	1.30	0.19	0.04	1.05	0.29	0.03	3.34	**0.00**	0.10	-0.42	0.67	0.05	3.10	**0.00**	0.13	0.84	0.40	0.16	1.69	0.09	0.06	0.14	0.89	0.08
Elevated duct occurrence (%)	**R1**	-0.47	0.64	-0.00	0.21	0.83	-0.00	1.12	0.26	0.00	-0.98	0.33	-0.02	3.17	**0.00**	0.02	2.38	**0.02**	0.08	1.16	0.25	0.00	0.14	0.89	0.01
	R2	0.96	0.34	0.00	-0.56	0.58	-0.04	1.07	0.28	0.00	1.54	0.12	0.03	3.66	**0.00**	0.03	0.07	0.94	-0.03	1.42	0.16	0.01	-0.35	0.73	-0.02
	R3	0.02	0.98	-0.00	-1.61	0.11	-0.08	1.36	0.17	0.01	0.63	0.53	0.03	3.53	**0.00**	0.04	0.98	0.33	0.07	0.54	0.59	0.00	0.00	1.00	-0.04
	R4	-0.58	0.56	-0.00	-1.96	0.05	-0.05	3.74	**0.00**	0.01	0.49	0.62	0.02	3.23	**0.00**	0.03	2.10	**0.04**	0.10	1.23	0.22	0.01	-0.42	0.67	-0.03
	R5	0.06	0.95	0.00	-1.68	0.09	-0.11	2.33	**0.02**	0.01	1.05	0.29	0.02	3.46	**0.00**	0.05	1.47	0.14	0.12	0.51	0.61	0.01	-0.14	0.89	-0.03
	R6	0.63	0.53	0.00	1.05	0.29	0.01	3.49	**0.00**	0.02	1.54	0.12	0.10	4.21	**0.00**	0.06	2.24	**0.03**	0.23	1.07	0.28	0.01	-0.28	0.78	-0.03
	R7	0.63	0.53	0.00	1.26	0.21	0.03	3.29	**0.00**	0.02	0.49	0.62	0.05	3.66	**0.00**	0.06	1.33	0.18	0.12	0.91	0.36	0.01	-0.49	0.62	-0.06
	R8	1.38	0.17	0.01	2.03	**0.04**	0.07	3.58	**0.00**	0.02	1.33	0.18	0.11	3.66	**0.00**	0.06	1.19	0.23	0.10	0.65	0.52	0.01	-0.14	0.89	-0.02
	R9	0.66	0.51	0.00	1.68	0.09	0.02	1.49	0.14	0.01	0.14	0.89	0.04	2.86	**0.00**	0.03	0.28	0.78	-0.04	0.33	0.74	0.01	-0.14	0.89	0.01

Table S3: Trends in the occurrence of surface ducts only, elevated ducts only, and simultaneous surface and elevated ducts, calculated using the trend-free pre-whitening Mann–Kendall test and Sen's slope estimator. The standardized Mann–Kendall statistic is denoted by Z, the p-value by p, and Sen's slope, representing the annual rate of change, by β. Values of $p < 0.05$ are shown in boldface. Results are presented for each season for the full time series (1940–2025, sample size $n = 86$) and the most recent 20 years (2006–2025, sample size $n = 20$). Regions are labeled R1–R9.

		DJF						**MAM**						**JJA**						**SON**					
		1940–2025			2006–2025			1940–2025			2006–2025			1940–2025			2006–2025			1940–2025			2006–2025		
		Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β	Z	p	β
Surface ducts only (%)	**R1**	-1.58	0.11	-0.00	0.00	1.00	0.00	2.07	**0.04**	0.15	-1.61	0.11	-0.86	-2.34	**0.02**	-0.18	-0.35	0.73	-0.07	-2.52	**0.01**	-0.04	-1.19	0.23	-0.05
	R2	-1.56	0.12	-0.03	1.02	0.31	0.14	2.46	**0.01**	0.12	0.63	0.53	0.96	-1.17	0.24	-0.11	0.56	0.58	0.67	-1.64	0.10	-0.04	-0.07	0.94	-0.01
	R3	-1.62	0.11	-0.03	1.75	0.08	0.25	1.15	0.25	0.04	0.49	0.62	0.45	-0.09	0.93	-0.03	0.21	0.83	0.38	-1.51	0.13	-0.05	0.21	0.83	0.22
	R4	-0.66	0.51	-0.00	0.56	0.58	0.02	1.81	0.07	0.14	-1.19	0.23	-0.55	-0.32	0.75	-0.04	0.56	0.58	0.68	-1.46	0.14	-0.03	-0.28	0.78	0.03
	R5	-2.14	**0.03**	-0.04	1.47	0.14	0.11	0.66	0.51	0.02	-0.28	0.78	0.17	-0.85	0.40	-0.11	-0.14	0.89	-0.15	-0.58	0.56	-0.04	0.56	0.58	0.45
	R6	-0.76	0.45	-0.01	1.54	0.12	0.27	1.62	0.11	0.07	-0.91	0.36	-0.52	-1.95	0.05	-0.18	-0.07	0.94	0.06	-0.25	0.80	-0.02	0.98	0.33	0.56
	R7	-1.31	0.19	-0.01	0.91	0.36	0.09	0.32	0.75	0.02	-0.56	0.58	-0.31	-0.95	0.34	-0.10	0.35	0.73	0.01	-0.19	0.85	-0.01	0.42	0.67	0.24
	R8	-2.39	0.02	-0.03	0.84	0.40	0.01	0.19	0.85	0.02	0.00	1.00	0.08	-1.06	0.29	-0.10	0.77	0.44	0.20	2.36	**0.02**	0.04	0.70	0.48	0.45
	R9	-0.73	0.46	-0.01	0.77	0.44	0.00	0.24	0.81	0.03	0.14	0.89	0.07	-0.03	0.97	-0.01	1.82	0.07	0.85	1.73	0.08	0.04	-0.42	0.67	0.12
Elevated duct only (%)	**R1**	-1.12	0.26	0.00	0.05	0.96	0.00	0.78	0.43	0.00	-0.68	0.50	0.00	-0.13	0.89	0.00	0.35	0.73	-0.02	0.62	0.54	0.00	-0.32	0.75	0.00
	R2	0.24	0.81	0.00	-0.97	0.33	0.00	1.78	0.07	0.00	-0.63	0.53	0.00	-0.68	0.50	0.00	0.21	0.83	-0.02	0.00	1.00	0.00	1.14	0.26	0.00
	R3	2.67	**0.01**	0.00	-1.09	0.27	0.00	1.82	0.07	0.01	0.56	0.58	0.10	-1.17	0.24	0.00	-0.70	0.48	-0.03	0.56	0.57	0.00	0.56	0.58	0.00
	R4	1.19	0.23	0.00	-0.30	0.77	0.00	1.80	0.07	0.01	1.89	0.06	0.13	-0.63	0.53	0.00	0.14	0.89	0.01	-0.39	0.70	0.00	0.51	0.61	0.00
	R5	2.75	**0.01**	0.00	-1.33	0.18	0.00	1.36	0.18	0.00	0.56	0.58	0.16	0.03	0.98	0.00	0.35	0.73	-0.01	0.10	0.92	0.00	-0.29	0.78	0.00
	R6	1.88	0.06	0.00	-0.81	0.42	0.00	1.61	0.11	0.00	1.19	0.23	0.04	1.36	0.17	0.01	0.77	0.44	0.03	3.03	**0.00**	0.00	1.65	0.10	0.00
	R7	1.01	0.31	0.00	-2.10	**0.04**	-0.00	0.60	0.55	0.00	0.28	0.78	0.01	1.33	0.18	0.01	0.28	0.78	0.02	2.01	**0.04**	0.00	1.12	0.26	0.00
	R8	0.51	0.61	0.00	-2.45	**0.01**	-0.07	-0.80	0.43	0.00	-0.04	0.97	0.00	2.33	**0.02**	0.01	0.77	0.44	0.07	1.34	0.18	0.00	1.25	0.21	0.00
	R9	1.01	0.31	0.00	-1.68	0.09	-0.02	0.02	0.98	0.00	0.70	0.48	0.05	1.53	0.13	0.01	-0.42	0.67	0.03	0.07	0.94	0.00	-1.68	0.09	0.00
Simultaneous ducts (%)	**R1**	0.23	0.82	0.00	0.00	1.00	0.00	2.77	**0.01**	0.00	-0.85	0.40	0.00	-2.07	**0.04**	0.00	-0.60	0.55	0.00	-0.22	0.83	0.00	-1.46	0.14	0.00
	R2	2.23	0.03	0.00	-0.33	0.74	0.00	0.82	0.41	0.00	-1.25	0.21	0.00	-0.73	0.47	0.00	0.60	0.55	0.00	-1.04	0.30	0.00	1.55	0.12	0.00
	R3	3.46	**0.00**	0.00	-1.03	0.30	0.00	1.20	0.23	0.00	0.00	1.00	0.00	-0.58	0.56	0.00	0.00	1.00	0.00	0.01	0.99	0.00	0.53	0.60	0.00
	R4	0.00	1.00	0.00	0.00	1.00	0.00	3.30	**0.00**	0.00	0.14	0.89	0.00	-0.53	0.60	0.00	0.63	0.53	0.00	0.68	0.49	0.00	0.53	0.60	0.00
	R5	2.13	**0.03**	0.00	0.05	0.96	0.00	3.29	**0.00**	0.00	-0.74	0.46	0.00	-1.09	0.28	0.00	1.02	0.31	0.00	-0.10	0.92	0.00	0.53	0.60	0.00
	R6	0.23	0.82	0.00	0.05	0.96	0.00	1.09	0.28	0.00	0.77	0.44	0.00	0.55	0.58	0.00	0.70	0.48	0.00	2.84	**0.00**	0.00	2.63	**0.01**	0.00
	R7	0.42	0.67	0.00	-0.14	0.89	0.00	1.71	0.09	0.00	1.16	0.25	0.00	1.08	0.28	0.00	1.54	0.12	0.04	2.50	**0.01**	0.00	2.32	**0.02**	0.00
	R8	1.56	0.12	0.00	0.00	1.00	0.00	-0.17	0.87	0.00	-1.30	0.19	0.00	0.62	0.54	0.00	1.12	0.26	0.03	1.45	0.15	0.00	1.88	0.06	0.00
	R9	0.50	0.61	0.00	-0.51	0.61	0.00	0.69	0.49	0.00	0.21	0.83	0.01	0.84	0.40	0.00	1.12	0.26	0.06	-1.28	0.20	0.00	-0.66	0.51	0.00