

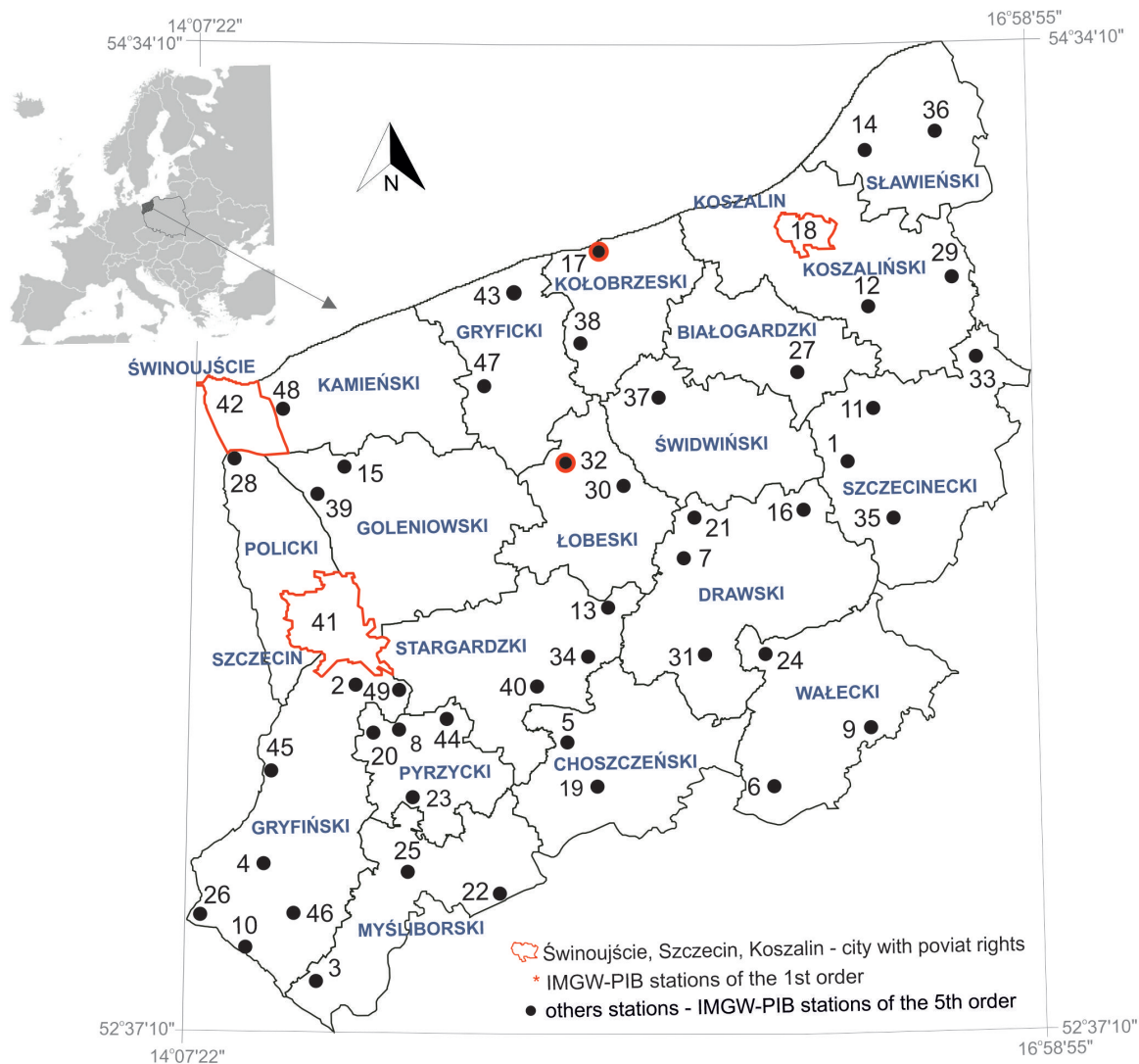
## SUPPLEMENTARY MATERIAL

### **Precipitation in the West Pomeranian voivodeship in Poland (1991–2020) – monthly variability**

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Station name	Longitude	Latitude	Height above sea level	Station name	Longitude	Latitude	Height above sea level
1. Barwice	16°21'29"E	53°44'53"N	120	26. Osinów Dolny	14°08'12"E	52°50'55"N	4
2. Binowo	14°39'01"E	53°18'29"N	55	27. Osówko	16°04'16"E	53°54'34"N	55
3. Boleszkowice	14°34'00"E	52°43'37"N	49	28. Podgrodzie	14°19'54"E	53°43'57"N	2
4. Chojna	14°26'14"E	52°57'52"N	25	29. Polanów	16°40'59"E	54°07'07"N	80
5. Choszczno	15°24'23"E	53°10'09"N	55	30. Poradz	15°36'21"E	53°42'06"N	91
6. Człopa	16°06'57"E	53°05'05"N	85	31. Pożrzadło Wielkie	15°55'27"E	53°23'08"N	136
7. Drawsko Pomorskie	15°49'28"E	53°31'59"N	112	32. Resko*	15°23'36"E	53°45'49"N	52
8. Giżyn	15°01'00"E	52°56'15"N	67	33. Sępólno Wielkie	16°46'24"E	53°56'51"N	165
9. Gostomia	16°25'37"E	53°11'19"N	152	34. Sierakowo	16°30'59"E	54°12'59"N	50
10. Gozdowice	14°19'20"E	52°46'01"N	38	35. Silnowo	16°29'53"E	53°38'00"N	157
11. Grzmiąca	16°26'21"E	53°50'09"N	100	36. Sławno	16°40'13"E	54°21'06"N	25
12. Grzybnica	16°26'45"E	54°02'42"N	90	37. Sławoborze	15°42'07"E	53°53'07"N	52
13. Ińsko	15°32'28"E	53°26'06"N	127	38. Starnin	15°27'24"E	53°57'54"N	34
14. Jeżyczyki	16°23'26"E	54°20'05"N	10	39. Stepnica	14°37'14"E	53°38'53"N	2
15. Kartlewo	14°47'33"E	53°47'28"N	21	40. Suchań	15°19'33"E	53°16'43"N	53
16. Kluczewo	16°11'13"E	53°38'57"N	146	41. Szczecin*	14°37'22"E	53°23'43"N	1
17. Kolobrzeg*	15°23'20"E	54°09'31"N	4	42. Świnoujście*	14°14'32"E	53°55'24"N	4
18. Koszalin*	16°09'19"E	54°12'16"N	33	43. Trzebiatów	15°15'53"E	54°03'59"N	10
19. Krzęcin	15°29'03"E	53°04'55"N	71	44. Warnice	14°40'15"E	52°51'06"N	62
20. Linie	14°45'23"E	53°11'11"N	35	45. Widuchowa	14°23'28"E	53°07'08"N	15
21. Łabędzie	15°48'33"E	53°39'02"N	100	46. Wierzchlas	14°30'08"E	52°50'17"N	60
22. Łubianka	15°11'30"E	52°53'03"N	68	47. Witno	15°03'47"E	53°56'40"N	20
23. Mielęcín	14°53'56"E	53°04'41"N	67	48. Wolin	14°36'57"E	53°50'15"N	2
24. Mirosławiec	16°05'19"E	53°20'23"N	110	49. Żelewo	14°51'59"E	53°17'30"N	20
25. Myślibórz	14°51'23"E	52°54'45"N	62				

**Fig. S1.** Location of meteorological stations of Institute of Meteorology and Water Management National Research Institute (IMGW-PIB) considered in the study source: own elaboration

**Table S1.** Basic statistics of precipitation by poviats in the West Pomeranian Voivodeship (years 1991–2020)

Poviat	Statistic	Precipitation (mm) in the month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Białogard	mean	60	48	55	35	61	73	95	80	70	60	54	66
	min	3	4	13	1	2	21	0	14	21	14	2	14
	max	147	93	116	86	115	171	207	236	194	158	112	145
	$V_S$ (%)	56	48	50	68	42	56	57	53	53	65	51	50
Choszczno	mean	47	39	43	34	58	63	82	68	52	43	43	50
	min	1	3	9	6	10	8	10	13	18	14	1	9
	max	98	102	85	123	135	154	217	228	117	107	113	93
	$V_S$ (%)	52	53	44	75	52	62	63	62	47	53	54	42
Drawsko	mean	61	47	53	34	61	69	81	72	57	51	52	65
	min	2	7	10	3	6	20	8	16	16	16	5	14
	max	144	93	114	99	115	139	178	175	141	160	126	152
	$V_S$ (%)	56	49	47	63	41	46	56	51	48	61	53	49
Goleniów	mean	48	38	43	35	57	66	80	67	56	51	48	52
	min	1	3	12	5	8	15	2	23	17	21	4	12
	max	98	76	91	138	114	156	176	178	125	126	109	101
	$V_S$ (%)	51	43	45	74	47	52	56	48	43	51	47	41
Gryfice	mean	55	43	49	37	56	71	84	79	68	59	56	60
	min	2	7	12	5	13	17	3	19	14	19	4	14
	max	108	78	100	126	96	155	201	198	140	138	117	142
	$V_S$ (%)	49	41	50	65	40	49	57	47	43	55	46	44
Gryfino	mean	42	34	39	30	56	58	77	60	49	40	38	42
	min	1	4	10	2	15	10	11	8	14	12	1	7
	max	87	80	71	100	105	123	242	178	113	96	95	77
	$V_S$ (%)	51	52	42	64	45	51	63	48	45	57	52	39
Kamień Pomorski	mean	46	39	41	32	54	62	80	75	60	52	48	51
	min	0	6	11	5	13	13	0	16	14	13	3	12
	max	105	73	83	99	101	132	233	180	141	150	129	87
	$V_S$ (%)	55	46	50	63	45	42	67	56	51	54	53	41
Kołobrzeg	mean	50	41	44	33	56	72	81	81	71	60	51	56
	min	1	3	6	5	9	11	5	10	17	19	3	13
	max	115	79	102	90	100	189	172	180	175	142	105	109
	$V_S$ (%)	52	44	50	62	43	53	55	47	46	58	44	42
Koszalin Town	mean	52	40	46	34	54	76	90	89	75	66	56	59
	min	2	4	9	2	16	1	13	13	24	17	5	20
	max	152	72	101	90	109	236	189	215	163	164	103	107
	$V_S$ (%)	62	45	53	61	43	62	53	53	49	61	49	41

Continue Tab. S1

Poviat	Statistic	Precipitation (mm) in the month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Koszalin	mean	71	56	61	38	61	77	100	86	77	70	67	78
	min	6	5	17	5	15	3	4	11	36	15	7	22
	max	197	107	158	86	107	152	231	179	217	185	135	156
	$V_S$ (%)	60	49	52	55	41	47	56	51	51	64	51	45
Łobez	mean	61	50	55	36	59	73	80	79	60	52	54	68
	min	2	9	12	2	12	26	5	22	5	18	4	14
	max	132	97	111	117	120	185	175	179	144	172	125	117
	$V_S$ (%)	54	48	45	65	39	46	57	49	47	61	52	46
Mysłibórz	mean	46	37	40	31	57	56	77	62	50	41	40	45
	min	1	3	9	2	9	12	8	14	8	10	4	7
	max	88	99	78	95	144	133	223	198	126	98	101	84
	$V_S$ (%)	52	55	45	60	55	54	59	54	50	55	54	40
Police	mean	41	31	35	29	51	57	71	62	48	43	42	42
	min	0	4	7	4	10	8	1	16	9	18	3	11
	max	74	70	79	83	105	109	202	165	112	106	102	83
	$V_S$ (%)	52	47	49	63	49	48	63	58	56	51	49	43
Pyrzyce	mean	44	35	40	32	54	55	78	61	50	42	40	43
	min	1	4	11	3	8	13	12	7	7	11	2	10
	max	92	92	84	112	103	117	219	226	116	102	111	85
	$V_S$ (%)	50	53	44	66	52	54	61	62	52	57	54	41
Sławno	mean	62	51	52	36	58	75	94	96	85	80	68	73
	min	6	5	18	4	18	0	11	17	36	17	5	20
	max	176	86	119	110	128	226	204	186	210	185	145	129
	$V_S$ (%)	58	44	50	62	46	61	52	47	52	52	49	41
Stargard	mean	60	49	52	35	58	69	87	78	63	58	54	66
	min	3	9	13	5	14	8	8	25	13	20	4	15
	max	148	95	101	87	106	135	174	183	160	151	95	134
	$V_S$ (%)	55	49	45	59	39	47	54	46	49	56	47	45
Szczecinek	mean	60	47	54	35	62	69	84	77	65	56	54	66
	min	4	7	16	2	23	25	12	9	27	16	4	17
	max	159	96	110	78	108	134	196	177	192	160	113	138
	$V_S$ (%)	58	47	46	54	36	43	52	52	54	65	51	49
Szczecin	mean	40	33	38	31	56	59	76	60	48	44	39	43
	min	0	3	7	4	15	15	11	15	14	20	1	9
	max	83	76	72	92	101	150	193	172	111	108	109	83
	$V_S$ (%)	53	50	45	58	48	58	63	53	48	54	57	45

Continue Tab. S1

Poviat	Statistic	Precipitation (mm) in the month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Świdwin	mean	65	53	57	36	60	81	90	79	71	60	57	72
	min	2	11	10	2	12	21	3	14	23	14	2	14
	max	148	103	129	101	104	179	183	183	205	163	116	152
	$V_s$ (%)	54	46	50	65	38	50	56	51	61	62	52	48
Świnoujście	mean	44	34	39	31	52	60	73	60	55	49	45	45
	min	0	5	13	3	13	8	0	25	19	20	3	9
	max	83	69	81	107	114	124	255	185	113	107	108	90
	$V_s$ (%)	50	46	50	67	52	49	75	55	44	43	49	42
Wałecz	mean	59	45	52	34	60	64	88	69	56	48	47	62
	min	3	9	8	7	11	9	24	14	12	14	2	11
	max	125	110	107	103	121	139	217	145	139	145	113	139
	$V_s$ (%)	53	54	49	67	44	49	58	49	50	61	50	48

Explanations: min. = minimum; max. = maximum;  $V_s$  = coefficient of variation (%).

Source: own study.