

**Table S1.** Catchment characteristics

No	River	Station	Abb.	ME	MED	MS	DD	UF	ICT	MDC	AnA	AL	PC	P	HA	F	AHV	OS	WE	WA
1	Ner	Dąbie	ND	154.0	185.5	1.04	2.08	10.00	2.23	0.33	1.17	47.59	0.00	11.68	11.19	14.43	0.78	0.01	0.28	0.30
2	Mała Noteć	Gębice	MG	105.6	48.7	1.53	1.33	1.19	0.01	0.09	0.01	60.77	0.01	2.52	6.28	21.66	1.08	0.01	1.34	5.02
3	Grabia	Grabno	GG	193.1	133.5	1.12	1.71	5.22	0.80	0.69	0.08	44.55	0.01	10.47	13.01	23.17	1.85	0.01	0.03	0.09
4	Widawka	Rogóżno	WR	200.3	501.6	1.73	1.41	4.68	1.19	5.39	0.07	33.04	0.01	12.60	9.54	30.38	2.29	0.01	0.37	0.43
5	Niesób	Kuźnica Skakawska	NK	184.6	122.4	1.55	2.11	7.75	1.59	0.27	0.38	54.73	0.01	11.51	4.20	18.57	0.97	0.01	0.01	0.01
6	Prosna	Bogusław	PB	160.2	193.4	1.20	1.94	5.58	0.47	0.04	0.13	58.78	0.06	7.59	6.06	20.13	0.87	0.01	0.09	0.20
7	Mogilnica	Konojad	MK	88.2	69.6	0.73	1.79	3.34	0.75	0.06	0.03	73.78	0.01	4.48	2.88	12.80	0.71	0.01	0.40	0.76
8	Sama	Szamotuły	SS	86.5	61.5	1.03	1.60	4.53	0.84	0.23	0.31	72.61	0.47	3.26	4.21	11.12	0.19	0.01	0.26	1.97
9	Drawa	Drawsko Pomorskie	DD	144.7	111.2	2.57	1.30	3.83	0.24	0.01	0.14	32.13	0.12	7.95	9.78	35.11	3.20	0.01	0.06	7.43
10	Oleśnica	Niechmów	ON	178.9	115.3	0.90	1.88	5.05	0.61	0.01	0.06	59.63	0.11	9.52	5.52	19.05	0.41	0.01	0.01	0.01
11	Wełna	Pruśce	WP	102.5	66.9	1.14	1.57	3.71	0.52	0.09	0.36	67.03	0.01	4.01	5.19	15.12	1.31	0.01	0.24	2.39
12	Gwda	Piła	GP	135.6	176.0	1.62	1.16	2.39	0.45	0.14	0.24	33.14	0.10	5.14	2.62	49.08	3.77	0.07	0.19	2.68
13	Flinta	Ryczywół	FR	90.8	115.3	0.74	1.64	1.31	0.01	0.01	0.01	43.62	0.01	5.90	2.04	46.68	0.38	0.01	0.01	0.01
14	Ołobok	Ołobok	OO	140.7	116.5	1.18	2.51	9.22	1.17	0.02	0.37	58.13	0.01	8.45	4.07	18.51	0.01	0.01	0.01	0.02

Mean elevation (ME) (m asl), maximum relief (MED) (m), mean slope (MS) (%), drainage density (DD) (km·km<sup>-2</sup>), land use characteristics (%) - urban fabric (UF), industrial, commercial and transport units (ICT), mine, dump and construction sites (MDC), artificial, non-agricultural vegetated areas (AnA), arable land (AL), permanent crops (PC), pastures (P), heterogeneous agricultural (HA), forests (F), scrub and/or herbaceous vegetation associations areas (AHV), open spaces with little or no vegetation (OS), wetlands (WE) and waters (WA).

**Table S2.** The results of trend analysis for the period 1950 – 2020 - Ner (ND), Mała Noteć (MG), Grabia (GG), Widawka (WR), Niesób (NK), Prosna (PB), Mogilnica (MK), Sama (SS), Drawa (DD), Oleśnica (ON), Wełna (WP), Gwda (GP), Flinta (FR) and Ołobok (OO).

ND	S	Tau	Z-Value	P-value	Sen's Slope	MG	S	Tau	Z-Value	P-value	Sen's Slope
NovL	-106	-0.045	-0.544	0.5865	-0.009	NovL	-854	-0.364	-4.418	0.0000	-0.006
DecL	-46	-0.020	-0.233	0.8157	-0.004	DecL	-832	-0.355	-4.304	0.0000	-0.007
JanL	412	0.176	2.129	0.0333	0.039	JanL	-780	-0.332	-4.035	0.0001	-0.005
FebL	390	0.166	2.015	0.0439	0.045	FebL	-718	-0.306	-3.714	0.0002	-0.007
MarL	296	0.126	1.528	0.1265	0.034	MarL	-716	-0.305	-3.703	0.0002	-0.008
AprL	-80	-0.034	-0.409	0.6824	-0.006	AprL	-864	-0.368	-4.470	0.0000	-0.008
MayL	-162	-0.069	-0.834	0.4043	-0.012	MayL	-1056	-0.450	-5.464	0.0000	-0.006
JunL	-302	-0.129	-1.559	0.1190	-0.020	JunL	-902	-0.384	-4.667	0.0000	-0.004
JulL	196	0.084	1.010	0.3125	0.009	JulL	-888	-0.379	-4.594	0.0000	-0.003
AugL	-184	-0.078	-0.948	0.3432	-0.008	AugL	-976	-0.416	-5.050	0.0000	-0.004
SepL	-286	-0.122	-1.476	0.1399	-0.017	SepL	-1002	-0.427	-5.185	0.0000	-0.005
OctL	-92	-0.039	-0.471	0.6374	-0.006	OctL	-1056	-0.450	-5.464	0.0000	-0.005
WHL	214	0.091	1.103	0.2699	0.012	WHL	-906	-0.386	-4.687	0.0000	-0.006
SHL	-70	-0.030	-0.357	0.7208	-0.002	SHL	-1022	-0.436	-5.288	0.0000	-0.003
YL	-28	-0.012	-0.140	0.8888	-0.001	YL	-1052	-0.448	-5.444	0.0000	-0.003
NovM	-224	-0.095	-1.155	0.2481	-0.028	NovM	-762	-0.325	-3.942	0.0001	-0.007
DecM	-168	-0.072	-0.865	0.3871	-0.026	DecM	-874	-0.373	-4.522	0.0000	-0.009
JanM	96	0.041	0.492	0.6227	0.019	JanM	-702	-0.299	-3.631	0.0003	-0.007
FebM	40	0.017	0.202	0.8399	0.008	FebM	-710	-0.303	-3.672	0.0002	-0.009
MarM	-68	-0.029	-0.347	0.7286	-0.012	MarM	-776	-0.331	-4.014	0.0001	-0.011
AprM	-98	-0.042	-0.502	0.6154	-0.014	AprM	-810	-0.345	-4.190	0.0000	-0.010
MayM	-28	-0.012	-0.140	0.8888	-0.004	MayM	-962	-0.410	-4.978	0.0000	-0.008
JunM	-324	-0.138	-1.673	0.0943	-0.025	JunM	-900	-0.384	-4.656	0.0000	-0.005
JulM	-16	-0.007	-0.078	0.9381	-0.002	JulM	-808	-0.344	-4.180	0.0000	-0.004

AugM	-232	-0.099	-1.196	0.2315	-0.017	AugM	-858	-0.366	-4.439	0.0000	-0.005
SepM	-108	-0.046	-0.554	0.5794	-0.009	SepM	-952	-0.406	-4.926	0.0000	-0.006
OctM	-38	-0.016	-0.192	0.8480	-0.004	OctM	-960	-0.409	-4.967	0.0000	-0.007
WHM	-100	-0.043	-0.513	0.6081	-0.016	WHM	-822	-0.350	-4.252	0.0000	-0.009
SHM	-300	-0.128	-1.549	0.1215	-0.027	SHM	-1144	-0.488	-5.920	0.0000	-0.007
YM	-164	-0.070	-0.844	0.3985	-0.017	YM	-952	-0.406	-4.926	0.0000	-0.008
NovH	-290	-0.124	-1.497	0.1344	-0.053	NovH	-708	-0.302	-3.662	0.0003	-0.008
DecH	-218	-0.093	-1.124	0.2610	-0.047	DecH	-908	-0.387	-4.698	0.0000	-0.011
JanH	12	0.005	0.057	0.9546	0.003	JanH	-666	-0.284	-3.444	0.0006	-0.009
FebH	-74	-0.032	-0.378	0.7054	-0.029	FebH	-738	-0.315	-3.817	0.0001	-0.012
MarH	-454	-0.194	-2.346	0.0190	-0.156	MarH	-730	-0.311	-3.776	0.0002	-0.013
AprH	-162	-0.069	-0.834	0.4043	-0.040	AprH	-694	-0.296	-3.589	0.0003	-0.011
MayH	166	0.071	0.855	0.3928	0.036	MayH	-860	-0.367	-4.449	0.0000	-0.011
JunH	8	0.003	0.036	0.9711	0.002	JunH	-814	-0.347	-4.211	0.0000	-0.006
JulH	-54	-0.023	-0.275	0.7837	-0.011	JulH	-796	-0.339	-4.118	0.0000	-0.006
AugH	-160	-0.068	-0.824	0.4102	-0.024	AugH	-764	-0.326	-3.952	0.0001	-0.006
SepH	-26	-0.011	-0.129	0.8970	-0.004	SepH	-888	-0.379	-4.594	0.0000	-0.007
OctH	120	0.051	0.616	0.5377	0.016	OctH	-884	-0.377	-4.574	0.0000	-0.008
WHH	-544	-0.232	-2.812	0.0049	-0.253	WHH	-670	-0.286	-3.465	0.0005	-0.014
SHH	-200	-0.085	-1.031	0.3027	-0.052	SHH	-944	-0.402	-4.884	0.0000	-0.012
YH	-618	-0.263	-3.196	0.0014	-0.361	YH	-642	-0.274	-3.320	0.0009	-0.014
DL3	-24	-0.010	-0.119	0.9052	-0.001	DL3	-1064	-0.454	-5.506	0.0000	-0.003
DL7	-56	-0.024	-0.285	0.7757	-0.003	DL7	-1058	-0.451	-5.475	0.0000	-0.003
DL30	-28	-0.012	-0.140	0.8888	-0.001	DL30	-1090	-0.465	-5.640	0.0000	-0.004
DL90	-34	-0.014	-0.171	0.8643	-0.001	DL90	-1144	-0.488	-5.920	0.0000	-0.005
TBQ30	70	0.030	0.357	0.7208	0.191	TBQ30	1032	0.440	5.340	0.0000	2.742
TBQ50	202	0.086	1.041	0.2978	0.411	TBQ50	1170	0.499	6.055	0.0000	3.489
TBQ70	206	0.088	1.062	0.2883	0.462	TBQ70	1226	0.523	6.345	0.0000	3.187
TBQ90	58	0.025	0.295	0.7677	0.033	TBQ90	1070	0.456	5.537	0.0000	0.832

TQ3090	36	0.015	0.181	0.8561	0.116	TQ3090	528	0.225	2.730	0.0063	1.239
TQ5090	-12	-0.005	-0.057	0.9546	-0.012	TQ5090	870	0.371	4.501	0.0000	2.001

GG	S	Tau	Z-Value	P-value	Sen's Slope	WR	S	Tau	Z-Value	P-value	Sen's Slope
NovL	28	0.012	0.140	0.8888	0.001	NovL	776	0.331	4.014	0.0001	0.052
DecL	-52	-0.022	-0.264	0.7917	-0.003	DecL	818	0.349	4.232	0.0000	0.057
JanL	192	0.082	0.989	0.3225	0.008	JanL	1016	0.433	5.257	0.0000	0.064
FebL	88	0.038	0.451	0.6523	0.003	FebL	638	0.272	3.299	0.0010	0.047
MarL	226	0.096	1.165	0.2439	0.011	MarL	872	0.372	4.511	0.0000	0.048
AprL	-58	-0.025	-0.295	0.7678	-0.002	AprL	880	0.375	4.553	0.0000	0.048
MayL	-186	-0.079	-0.958	0.3380	-0.005	MayL	824	0.351	4.263	0.0000	0.055
JunL	-420	-0.179	-2.170	0.0300	-0.007	JunL	1018	0.434	5.268	0.0000	0.059
JulL	-314	-0.134	-1.621	0.1050	-0.006	JulL	1140	0.486	5.899	0.0000	0.058
AugL	-544	-0.232	-2.812	0.0049	-0.009	AugL	954	0.407	4.936	0.0000	0.054
SepL	-488	-0.208	-2.522	0.0117	-0.008	SepL	1032	0.440	5.340	0.0000	0.050
OctL	-350	-0.149	-1.808	0.0707	-0.008	OctL	724	0.309	3.745	0.0002	0.045
WHL	136	0.058	0.699	0.4844	0.003	WHL	1308	0.558	6.770	0.0000	0.072
SHL	-464	-0.198	-2.398	0.0165	-0.007	SHL	1350	0.575	6.987	0.0000	0.060
YL	-432	-0.184	-2.232	0.0256	-0.005	YL	1396	0.595	7.225	0.0000	0.062
NovM	-186	-0.079	-0.958	0.3380	-0.008	NovM	422	0.180	2.181	0.0292	0.033
DecM	-92	-0.039	-0.471	0.6374	-0.008	DecM	208	0.089	1.072	0.2836	0.016
JanM	52	0.022	0.264	0.7917	0.003	JanM	192	0.082	0.989	0.3225	0.017
FebM	-22	-0.009	-0.109	0.9134	-0.003	FebM	-118	-0.050	-0.606	0.5445	-0.016
MarM	-10	-0.004	-0.047	0.9628	-0.001	MarM	-176	-0.075	-0.906	0.3647	-0.020
AprM	-68	-0.029	-0.347	0.7286	-0.004	AprM	38	0.016	0.192	0.8480	0.005
MayM	2	0.001	0.005	0.9959	0.000	MayM	480	0.205	2.481	0.0131	0.042
JunM	-376	-0.160	-1.942	0.0521	-0.013	JunM	562	0.240	2.906	0.0037	0.047
JulM	-340	-0.145	-1.756	0.0791	-0.012	JulM	354	0.151	1.828	0.0675	0.029
AugM	-378	-0.161	-1.953	0.0509	-0.010	AugM	542	0.231	2.802	0.0051	0.049

SepM	-440	-0.188	-2.274	0.0230	-0.012	SepM	576	0.246	2.978	0.0029	0.037
OctM	-190	-0.081	-0.979	0.3276	-0.006	OctM	538	0.229	2.781	0.0054	0.038
WHM	-76	-0.032	-0.388	0.6977	-0.006	WHM	-44	-0.019	-0.223	0.8238	-0.004
SHM	-306	-0.130	-1.580	0.1142	-0.011	SHM	506	0.216	2.616	0.0089	0.031
YM	-178	-0.076	-0.917	0.3593	-0.009	YM	162	0.069	0.834	0.4043	0.008
NovH	-268	-0.114	-1.383	0.1667	-0.020	NovH	-92	-0.039	-0.471	0.6374	-0.012
DecH	-286	-0.122	-1.476	0.1399	-0.036	DecH	-360	-0.153	-1.859	0.0630	-0.057
JanH	-154	-0.066	-0.792	0.4281	-0.030	JanH	-148	-0.063	-0.761	0.4464	-0.031
FebH	-88	-0.038	-0.451	0.6523	-0.023	FebH	-432	-0.184	-2.232	0.0256	-0.131
MarH	-286	-0.122	-1.476	0.1399	-0.077	MarH	-630	-0.269	-3.258	0.0011	-0.192
AprH	-82	-0.035	-0.420	0.6748	-0.012	AprH	-410	-0.175	-2.118	0.0341	-0.088
MayH	152	0.065	0.782	0.4342	0.017	MayH	186	0.079	0.958	0.3380	0.025
JunH	-248	-0.106	-1.279	0.2008	-0.018	JunH	196	0.084	1.010	0.3125	0.023
JulH	-316	-0.135	-1.632	0.1028	-0.016	JulH	-56	-0.024	-0.285	0.7757	-0.010
AugH	-298	-0.127	-1.538	0.1240	-0.012	AugH	308	0.131	1.590	0.1118	0.033
SepH	-380	-0.162	-1.963	0.0496	-0.015	SepH	134	0.057	0.689	0.4909	0.014
OctH	-126	-0.054	-0.647	0.5173	-0.006	OctH	318	0.136	1.642	0.1006	0.034
WHH	-460	-0.196	-2.377	0.0174	-0.194	WHH	-1076	-0.459	-5.568	0.0000	-0.570
SHH	-186	-0.079	-0.958	0.3380	-0.034	SHH	-308	-0.131	-1.590	0.1118	-0.080
YH	-456	-0.194	-2.357	0.0184	-0.233	YH	-1056	-0.450	-5.464	0.0000	-0.672
DL3	-414	-0.176	-2.139	0.0324	-0.005	DL3	1372	0.585	7.101	0.0000	0.062
DL7	-418	-0.178	-2.160	0.0308	-0.006	DL7	1348	0.575	6.977	0.0000	0.061
DL30	-468	-0.199	-2.419	0.0156	-0.007	DL30	1352	0.576	6.998	0.0000	0.060
DL90	-448	-0.191	-2.315	0.0206	-0.007	DL90	1276	0.544	6.604	0.0000	0.055
TBQ30	182	0.078	0.937	0.3485	0.375	TBQ30	-44	-0.019	-0.223	0.8238	-0.065
TBQ50	292	0.124	1.507	0.1317	0.665	TBQ50	-604	-0.257	-3.123	0.0018	-1.403
TBQ70	286	0.122	1.476	0.1399	0.682	TBQ70	-1048	-0.447	-5.423	0.0000	-2.205
TBQ90	92	0.039	0.480	0.6316	0.000	TBQ90	-1586	-0.676	-8.210	0.0000	-0.789
TQ3090	216	0.092	1.114	0.2655	0.323	TQ3090	1022	0.436	5.288	0.0000	2.079

TQ5090	254	0.108	1.310	0.1901	0.439	TQ5090	420	0.179	2.170	0.0300	0.943
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NK	S	Tau	Z-Value	P-value	Sen's Slope	PB	S	Tau	Z-Value	P-value	Sen's Slope
NovL	84	0.036	0.430	0.6673	0.001	NovL	-78	-0.033	-0.399	0.6900	-0.010
DecL	168	0.072	0.865	0.3871	0.001	DecL	-50	-0.021	-0.254	0.7997	-0.010
JanL	338	0.144	1.745	0.0809	0.003	JanL	16	0.007	0.078	0.9381	0.005
FebL	252	0.107	1.300	0.1936	0.003	FebL	122	0.052	0.627	0.5308	0.022
MarL	430	0.183	2.222	0.0263	0.004	MarL	32	0.014	0.161	0.8724	0.006
AprL	46	0.020	0.233	0.8157	0.000	AprL	-332	-0.142	-1.714	0.0865	-0.042
MayL	-60	-0.026	-0.306	0.7599	0.000	MayL	-250	-0.107	-1.290	0.1972	-0.019
JunL	612	0.261	3.165	0.0016	0.003	JunL	-130	-0.055	-0.668	0.5040	-0.009
JulL	666	0.284	3.444	0.0006	0.003	JulL	-72	-0.031	-0.368	0.7131	-0.003
AugL	226	0.096	1.165	0.2439	0.001	AugL	-320	-0.136	-1.652	0.0985	-0.018
SepL	264	0.113	1.362	0.1731	0.002	SepL	-308	-0.131	-1.590	0.1118	-0.021
OctL	110	0.047	0.565	0.5724	0.001	OctL	-400	-0.171	-2.067	0.0388	-0.038
WHL	300	0.128	1.549	0.1215	0.001	WHL	158	0.067	0.813	0.4161	0.011
SHL	588	0.251	3.040	0.0024	0.002	SHL	-178	-0.076	-0.917	0.3593	-0.009
YL	588	0.251	3.040	0.0024	0.002	YL	-184	-0.078	-0.948	0.3432	-0.009
NovM	-162	-0.069	-0.834	0.4043	-0.002	NovM	-126	-0.054	-0.647	0.5173	-0.023
DecM	2	0.001	0.005	0.9959	0.000	DecM	-214	-0.091	-1.103	0.2699	-0.054
JanM	118	0.050	0.606	0.5445	0.002	JanM	10	0.004	0.047	0.9628	0.004
FebM	50	0.021	0.254	0.7997	0.001	FebM	-66	-0.028	-0.337	0.7364	-0.023
MarM	-62	-0.026	-0.316	0.7520	-0.001	MarM	-212	-0.090	-1.093	0.2744	-0.082
AprM	-150	-0.064	-0.772	0.4403	-0.002	AprM	-332	-0.142	-1.714	0.0865	-0.085
MayM	-112	-0.048	-0.575	0.5653	-0.001	MayM	-200	-0.085	-1.031	0.3027	-0.033
JunM	130	0.055	0.668	0.5040	0.001	JunM	-308	-0.131	-1.590	0.1118	-0.038
JulM	30	0.013	0.150	0.8806	0.000	JulM	-378	-0.161	-1.953	0.0509	-0.050
AugM	132	0.056	0.679	0.4974	0.001	AugM	-412	-0.176	-2.129	0.0333	-0.043
SepM	128	0.055	0.658	0.5107	0.001	SepM	-234	-0.100	-1.207	0.2275	-0.030

OctM	-14	-0.006	-0.067	0.9463	0.000	OctM	-136	-0.058	-0.699	0.4844	-0.021
WHM	-100	-0.043	-0.513	0.6081	-0.002	WHM	-238	-0.101	-1.228	0.2196	-0.055
SHM	-26	-0.011	-0.129	0.8970	0.000	SHM	-356	-0.152	-1.839	0.0660	-0.047
YM	-40	-0.017	-0.202	0.8399	0.000	YM	-254	-0.108	-1.310	0.1901	-0.044
NovH	-252	-0.107	-1.300	0.1936	-0.006	NovH	-200	-0.085	-1.031	0.3027	-0.066
DecH	-140	-0.060	-0.720	0.4716	-0.004	DecH	-294	-0.125	-1.518	0.1291	-0.139
JanH	26	0.011	0.129	0.8970	0.002	JanH	-88	-0.038	-0.451	0.6523	-0.053
FebH	28	0.012	0.140	0.8888	0.002	FebH	-164	-0.070	-0.844	0.3985	-0.128
MarH	-316	-0.135	-1.632	0.1028	-0.020	MarH	-394	-0.168	-2.036	0.0418	-0.306
AprH	-154	-0.066	-0.792	0.4281	-0.005	AprH	-278	-0.118	-1.435	0.1514	-0.147
MayH	-154	-0.066	-0.792	0.4281	-0.004	MayH	-92	-0.039	-0.471	0.6374	-0.045
JunH	96	0.041	0.492	0.6227	0.002	JunH	-240	-0.102	-1.238	0.2158	-0.060
JulH	-194	-0.083	-1.000	0.3175	-0.004	JulH	-518	-0.221	-2.678	0.0074	-0.121
AugH	-44	-0.019	-0.223	0.8238	-0.001	AugH	-414	-0.176	-2.139	0.0324	-0.083
SepH	86	0.037	0.440	0.6597	0.001	SepH	-214	-0.091	-1.103	0.2699	-0.051
OctH	-122	-0.052	-0.627	0.5308	-0.002	OctH	-66	-0.028	-0.337	0.7364	-0.015
WHH	-504	-0.215	-2.605	0.0092	-0.048	WHH	-590	-0.251	-3.051	0.0023	-0.658
SHH	-394	-0.168	-2.036	0.0418	-0.019	SHH	-262	-0.112	-1.352	0.1764	-0.161
YH	-446	-0.190	-2.305	0.0212	-0.042	YH	-478	-0.204	-2.471	0.0135	-0.562
DL3	594	0.253	3.071	0.0021	0.002	DL3	-176	-0.075	-0.906	0.3647	-0.008
DL7	568	0.242	2.937	0.0033	0.002	DL7	-202	-0.086	-1.041	0.2978	-0.009
DL30	514	0.219	2.657	0.0079	0.002	DL30	-230	-0.098	-1.186	0.2356	-0.013
DL90	336	0.143	1.735	0.0827	0.002	DL90	-232	-0.099	-1.196	0.2315	-0.016
TBQ30	98	0.042	0.502	0.6154	0.166	TBQ30	218	0.093	1.124	0.2610	0.426
TBQ50	94	0.040	0.482	0.6300	0.142	TBQ50	324	0.138	1.673	0.0943	0.707
TBQ70	-28	-0.012	-0.140	0.8888	-0.043	TBQ70	310	0.132	1.600	0.1095	0.621
TBQ90	-115	-0.049	-0.597	0.5505	0.000	TBQ90	217	0.092	1.119	0.2631	0.154
TQ3090	316	0.135	1.632	0.1028	0.519	TQ3090	-46	-0.020	-0.233	0.8157	-0.053
TQ5090	230	0.098	1.186	0.2356	0.391	TQ5090	60	0.026	0.306	0.7599	0.094

MK	S	Tau	Z-Value	P-value	Sen's Slope	SS	S	Tau	Z-Value	P-value	Sen's Slope
NovL	-62	-0.026	-0.316	0.7520	-0.001	NovL	-390	-0.166	-2.015	0.0439	-0.003
DecL	50	0.021	0.254	0.7997	0.001	DecL	-154	-0.066	-0.792	0.4281	-0.002
JanL	272	0.116	1.404	0.1604	0.005	JanL	-136	-0.058	-0.699	0.4844	-0.002
FebL	266	0.113	1.373	0.1699	0.006	FebL	-38	-0.016	-0.192	0.8480	-0.001
MarL	242	0.103	1.248	0.2119	0.009	MarL	80	0.034	0.409	0.6824	0.001
AprL	-96	-0.041	-0.492	0.6227	-0.002	AprL	-276	-0.118	-1.424	0.1543	-0.004
MayL	-382	-0.163	-1.973	0.0485	-0.003	MayL	-402	-0.171	-2.077	0.0378	-0.003
JunL	-128	-0.055	-0.658	0.5107	-0.001	JunL	-416	-0.177	-2.149	0.0316	-0.002
JulL	-48	-0.020	-0.243	0.8077	0.000	JulL	-240	-0.102	-1.238	0.2158	-0.001
AugL	-132	-0.056	-0.679	0.4974	-0.001	AugL	-286	-0.122	-1.476	0.1399	-0.001
SepL	-148	-0.063	-0.761	0.4464	-0.001	SepL	-208	-0.089	-1.072	0.2836	-0.001
OctL	-164	-0.070	-0.844	0.3985	-0.001	OctL	-430	-0.183	-2.222	0.0263	-0.002
WHL	-39	-0.017	-0.197	0.8440	0.000	WHL	-314	-0.134	-1.621	0.1050	-0.002
SHL	-148	-0.063	-0.761	0.4464	0.000	SHL	-387	-0.165	-1.999	0.0456	-0.001
YL	-194	-0.083	-1.000	0.3175	-0.001	YL	-392	-0.167	-2.025	0.0428	-0.001
NovM	-20	-0.009	-0.098	0.9216	0.000	NovM	-178	-0.076	-0.917	0.3593	-0.002
DecM	-50	-0.021	-0.254	0.7997	-0.002	DecM	-138	-0.059	-0.710	0.4780	-0.003
JanM	134	0.057	0.689	0.4909	0.006	JanM	-75	-0.032	-0.383	0.7015	-0.002
FebM	94	0.040	0.482	0.6300	0.005	FebM	-118	-0.050	-0.606	0.5445	-0.004
MarM	-28	-0.012	-0.140	0.8888	-0.001	MarM	-68	-0.029	-0.347	0.7286	-0.002
AprM	-102	-0.043	-0.523	0.6009	-0.004	AprM	-210	-0.090	-1.083	0.2790	-0.006
MayM	-358	-0.153	-1.849	0.0644	-0.008	MayM	-360	-0.153	-1.859	0.0630	-0.005
JunM	-138	-0.059	-0.710	0.4780	-0.001	JunM	-416	-0.177	-2.149	0.0316	-0.003
JulM	-32	-0.014	-0.161	0.8724	0.000	JulM	-106	-0.045	-0.544	0.5865	-0.001
AugM	-60	-0.026	-0.306	0.7599	0.000	AugM	-170	-0.072	-0.875	0.3814	-0.001
SepM	-200	-0.085	-1.031	0.3027	-0.001	SepM	-252	-0.107	-1.300	0.1936	-0.001
OctM	-154	-0.066	-0.792	0.4281	-0.001	OctM	-404	-0.172	-2.087	0.0369	-0.002



WHM	-64	-0.027	-0.326	0.7442	-0.002	WHM	-158	-0.067	-0.813	0.4161	-0.004
SHM	-202	-0.086	-1.041	0.2978	-0.002	SHM	-270	-0.115	-1.393	0.1635	-0.002
YM	-56	-0.024	-0.285	0.7757	-0.002	YM	-196	-0.084	-1.010	0.3125	-0.003
NovH	-86	-0.037	-0.440	0.6597	-0.003	NovH	-116	-0.049	-0.596	0.5514	-0.002
DecH	-94	-0.040	-0.482	0.6300	-0.005	DecH	-110	-0.047	-0.565	0.5724	-0.002
JanH	18	0.008	0.088	0.9298	0.002	JanH	-106	-0.045	-0.544	0.5865	-0.004
FebH	80	0.034	0.409	0.6824	0.007	FebH	-126	-0.054	-0.647	0.5173	-0.008
MarH	-218	-0.093	-1.124	0.2610	-0.020	MarH	-252	-0.107	-1.300	0.1936	-0.012
AprH	-80	-0.034	-0.409	0.6824	-0.006	AprH	-194	-0.083	-1.000	0.3175	-0.006
MayH	-326	-0.139	-1.683	0.0923	-0.014	MayH	-288	-0.123	-1.487	0.1371	-0.008
JunH	-244	-0.104	-1.259	0.2082	-0.004	JunH	-272	-0.116	-1.404	0.1604	-0.003
JulH	-6	-0.003	-0.026	0.9793	0.000	JulH	-66	-0.028	-0.337	0.7364	-0.001
AugH	8	0.003	0.036	0.9711	0.000	AugH	-62	-0.026	-0.316	0.7520	-0.001
SepH	-242	-0.103	-1.248	0.2119	-0.003	SepH	-172	-0.073	-0.886	0.3758	-0.001
OctH	-104	-0.044	-0.533	0.5937	-0.001	OctH	-430	-0.183	-2.222	0.0263	-0.004
WHH	-206	-0.088	-1.062	0.2883	-0.028	WHH	-240	-0.102	-1.238	0.2158	-0.016
SHH	-100	-0.043	-0.513	0.6081	-0.005	SHH	-84	-0.036	-0.430	0.6673	-0.004
YH	-210	-0.090	-1.083	0.2790	-0.027	YH	-222	-0.095	-1.145	0.2523	-0.020
DL3	-208	-0.089	-1.072	0.2836	-0.001	DL3	-376	-0.160	-1.942	0.0521	-0.001
DL7	-198	-0.084	-1.020	0.3076	-0.001	DL7	-388	-0.165	-2.004	0.0450	-0.001
DL30	-130	-0.055	-0.668	0.5040	-0.001	DL30	-334	-0.142	-1.725	0.0846	-0.001
DL90	-120	-0.051	-0.616	0.5377	-0.001	DL90	-358	-0.153	-1.849	0.0644	-0.001
TBQ30	38	0.016	0.192	0.8480	0.070	TBQ30	146	0.062	0.751	0.4526	0.308
TBQ50	82	0.035	0.420	0.6748	0.184	TBQ50	286	0.122	1.476	0.1399	0.792
TBQ70	110	0.047	0.565	0.5724	0.281	TBQ70	372	0.159	1.922	0.0547	0.799
TBQ90	115	0.049	0.593	0.5531	0.029	TBQ90	332	0.142	1.724	0.0847	0.230
TQ3090	-222	-0.095	-1.145	0.2523	-0.329	TQ3090	-190	-0.081	-0.979	0.3276	-0.456
TQ5090	-152	-0.065	-0.782	0.4342	-0.306	TQ5090	28	0.012	0.140	0.8888	0.047

DD	S	Tau	Z-Value	P-value	Sen's Slope	ON	S	Tau	Z-Value	P-value	Sen's Slope
NovL	-208	-0.089	-1.072	0.2836	-0.008	NovL	-624	-0.266	-3.227	0.0013	-0.010
DecL	-150	-0.064	-0.772	0.4403	-0.006	DecL	-536	-0.228	-2.771	0.0056	-0.010
JanL	188	0.080	0.969	0.3328	0.008	JanL	-204	-0.087	-1.051	0.2931	-0.004
FebL	194	0.083	1.000	0.3175	0.011	FebL	-122	-0.052	-0.627	0.5308	-0.003
MarL	312	0.133	1.611	0.1072	0.018	MarL	-58	-0.025	-0.295	0.7678	-0.002
AprL	38	0.016	0.192	0.8480	0.001	AprL	-567	-0.242	-2.932	0.0034	-0.011
MayL	230	0.098	1.186	0.2356	0.007	MayL	-430	-0.183	-2.222	0.0263	-0.005
JunL	180	0.077	0.927	0.3539	0.005	JunL	-202	-0.086	-1.041	0.2978	-0.001
JulL	236	0.101	1.217	0.2235	0.007	JulL	-82	-0.035	-0.420	0.6748	-0.001
AugL	298	0.127	1.538	0.1240	0.009	AugL	-276	-0.118	-1.424	0.1543	-0.003
SepL	220	0.094	1.134	0.2567	0.006	SepL	-286	-0.122	-1.476	0.1399	-0.003
OctL	-90	-0.038	-0.461	0.6448	-0.002	OctL	-416	-0.177	-2.149	0.0316	-0.005
WHL	-108	-0.046	-0.554	0.5794	-0.004	WHL	-628	-0.268	-3.248	0.0012	-0.008
SHL	184	0.078	0.948	0.3432	0.005	SHL	-122	-0.052	-0.627	0.5308	-0.001
YL	92	0.039	0.471	0.6374	0.002	YL	-156	-0.066	-0.803	0.4221	-0.001
NovM	-244	-0.104	-1.259	0.2082	-0.010	NovM	-554	-0.236	-2.864	0.0042	-0.015
DecM	-274	-0.117	-1.414	0.1574	-0.014	DecM	-396	-0.169	-2.046	0.0408	-0.015
JanM	-52	-0.022	-0.264	0.7917	-0.003	JanM	-160	-0.068	-0.824	0.4102	-0.008
FebM	-6	-0.003	-0.026	0.9793	0.000	FebM	-156	-0.066	-0.803	0.4221	-0.009
MarM	152	0.065	0.782	0.4342	0.011	MarM	-282	-0.120	-1.455	0.1455	-0.019
AprM	-4	-0.002	-0.016	0.9876	0.000	AprM	-354	-0.151	-1.828	0.0675	-0.014
MayM	-78	-0.033	-0.399	0.6900	-0.003	MayM	-342	-0.146	-1.766	0.0774	-0.009
JunM	170	0.072	0.875	0.3814	0.006	JunM	-368	-0.157	-1.901	0.0573	-0.007
JulM	258	0.110	1.331	0.1831	0.008	JulM	-362	-0.154	-1.870	0.0615	-0.005
AugM	134	0.057	0.689	0.4909	0.006	AugM	-352	-0.150	-1.818	0.0691	-0.005
SepM	128	0.055	0.658	0.5107	0.004	SepM	-328	-0.140	-1.694	0.0903	-0.005
OctM	-180	-0.077	-0.927	0.3539	-0.006	OctM	-492	-0.210	-2.543	0.0110	-0.008
WHM	-96	-0.041	-0.492	0.6227	-0.005	WHM	-314	-0.134	-1.621	0.1050	-0.013

SHM	64	0.027	0.326	0.7442	0.002	SHM	-458	-0.195	-2.367	0.0179	-0.008
YM	-14	-0.006	-0.067	0.9463	0.000	YM	-316	-0.135	-1.632	0.1028	-0.010
NovH	-332	-0.142	-1.714	0.0865	-0.017	NovH	-530	-0.226	-2.740	0.0061	-0.023
DecH	-362	-0.154	-1.870	0.0615	-0.027	DecH	-422	-0.180	-2.181	0.0292	-0.029
JanH	-328	-0.140	-1.694	0.0903	-0.033	JanH	-190	-0.081	-0.979	0.3276	-0.020
FebH	-148	-0.063	-0.761	0.4464	-0.015	FebH	-234	-0.100	-1.207	0.2275	-0.034
MarH	-74	-0.032	-0.378	0.7054	-0.006	MarH	-416	-0.177	-2.149	0.0316	-0.079
AprH	-120	-0.051	-0.616	0.5377	-0.009	AprH	-212	-0.090	-1.093	0.2744	-0.023
MayH	-80	-0.034	-0.409	0.6824	-0.006	MayH	-176	-0.075	-0.906	0.3647	-0.013
JunH	164	0.070	0.844	0.3985	0.007	JunH	-344	-0.147	-1.777	0.0756	-0.012
JulH	188	0.080	0.969	0.3328	0.008	JulH	-362	-0.154	-1.870	0.0615	-0.009
AugH	80	0.034	0.409	0.6824	0.003	AugH	-414	-0.176	-2.139	0.0324	-0.009
SepH	26	0.011	0.129	0.8970	0.001	SepH	-340	-0.145	-1.756	0.0791	-0.007
OctH	-246	-0.105	-1.269	0.2044	-0.011	OctH	-506	-0.216	-2.616	0.0089	-0.012
WHH	-538	-0.229	-2.781	0.0054	-0.062	WHH	-592	-0.252	-3.061	0.0022	-0.158
SHH	-188	-0.080	-0.969	0.3328	-0.013	SHH	-198	-0.084	-1.020	0.3076	-0.020
YH	-534	-0.228	-2.761	0.0058	-0.055	YH	-486	-0.207	-2.512	0.0120	-0.140
DL3	98	0.042	0.502	0.6154	0.002	DL3	-216	-0.092	-1.114	0.2655	-0.001
DL7	100	0.043	0.513	0.6081	0.002	DL7	-228	-0.097	-1.176	0.2397	-0.002
DL30	100	0.043	0.513	0.6081	0.003	DL30	-336	-0.143	-1.735	0.0827	-0.003
DL90	148	0.063	0.761	0.4464	0.004	DL90	-518	-0.221	-2.678	0.0074	-0.005
TBQ30	23	0.010	0.114	0.9093	0.053	TBQ30	382	0.163	1.973	0.0485	0.730
TBQ50	4	0.002	0.016	0.9876	0.004	TBQ50	608	0.259	3.144	0.0017	1.248
TBQ70	-24	-0.010	-0.119	0.9052	-0.049	TBQ70	710	0.303	3.672	0.0002	1.606
TBQ90	76	0.032	0.401	0.6884	0.000	TBQ90	141	0.060	0.728	0.4664	0.036
TQ3090	202	0.086	1.041	0.2978	0.384	TQ3090	-68	-0.029	-0.347	0.7286	-0.135
TQ5090	184	0.078	0.948	0.3432	0.321	TQ5090	290	0.124	1.497	0.1344	0.554

WP	S	Tau	Z-Value	P-value	Sen's Slope	GP	S	Tau	Z-Value	P-value	Sen's Slope
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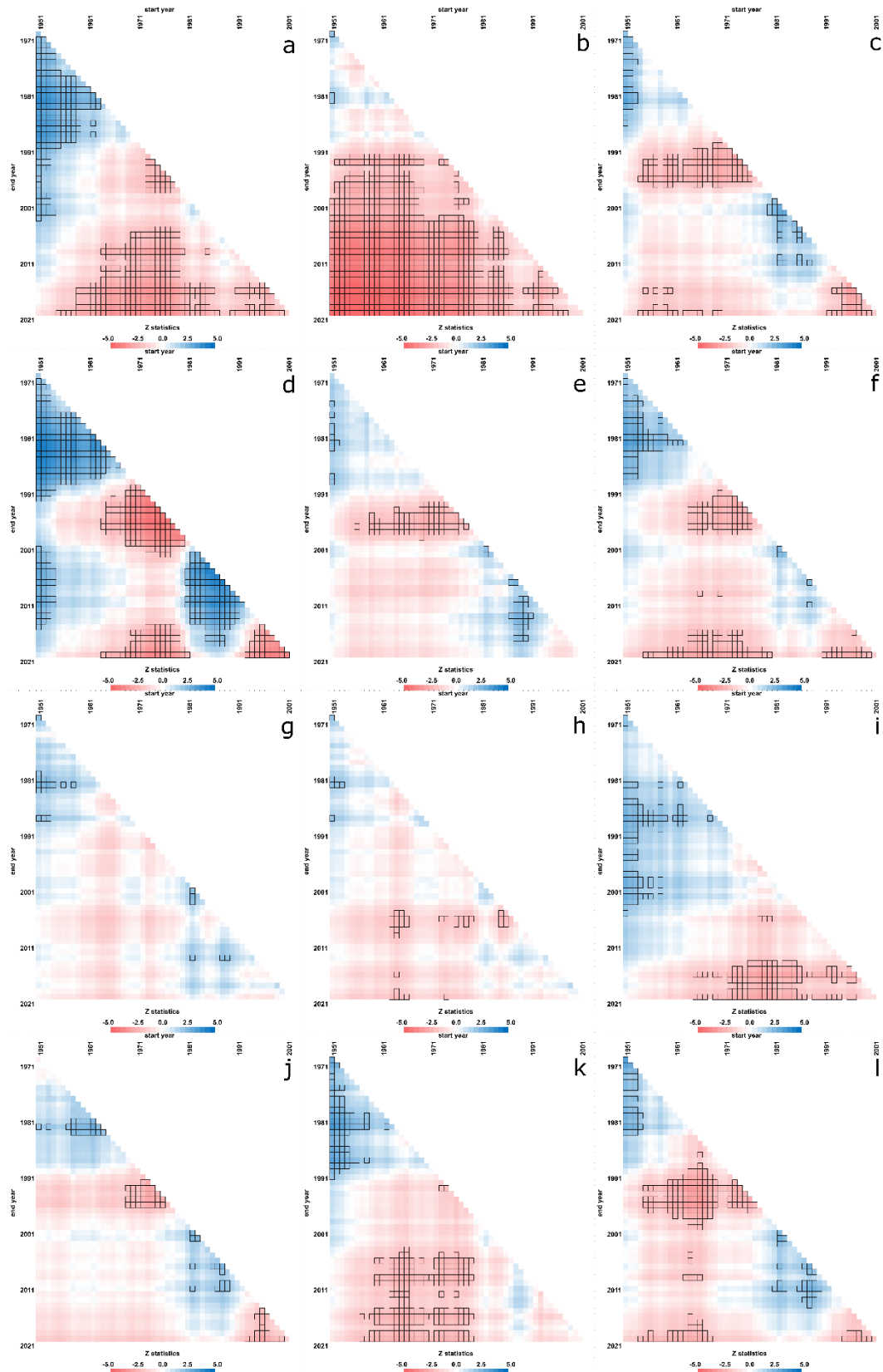
NovL	-200	-0.085	-1.031	0.3027	-0.007	NovL	320	0.136	1.652	0.0985	0.059
DecL	-174	-0.074	-0.896	0.3702	-0.007	DecL	740	0.315	3.828	0.0001	0.136
JanL	-120	-0.051	-0.616	0.5377	-0.005	JanL	826	0.352	4.273	0.0000	0.179
FebL	62	0.026	0.316	0.7520	0.003	FebL	830	0.354	4.294	0.0000	0.197
MarL	-28	-0.012	-0.140	0.8888	-0.002	MarL	918	0.391	4.750	0.0000	0.199
AprL	-226	-0.096	-1.165	0.2439	-0.011	AprL	516	0.220	2.667	0.0076	0.099
MayL	-250	-0.107	-1.290	0.1972	-0.009	MayL	268	0.114	1.383	0.1667	0.049
JunL	-188	-0.080	-0.969	0.3328	-0.004	JunL	128	0.055	0.658	0.5107	0.019
JulL	-132	-0.056	-0.679	0.4974	-0.003	JulL	2	0.001	0.005	0.9959	0.000
AugL	-66	-0.028	-0.337	0.7364	-0.001	AugL	4	0.002	0.016	0.9876	0.000
SepL	-126	-0.054	-0.647	0.5173	-0.002	SepL	18	0.008	0.088	0.9298	0.002
OctL	-292	-0.124	-1.507	0.1317	-0.006	OctL	84	0.036	0.430	0.6673	0.014
WHL	-148	-0.063	-0.761	0.4464	-0.005	WHL	894	0.381	4.625	0.0000	0.135
SHL	-190	-0.081	-0.979	0.3276	-0.003	SHL	164	0.070	0.844	0.3985	0.020
YL	-194	-0.083	-1.000	0.3175	-0.003	YL	524	0.223	2.709	0.0068	0.052
NovM	-118	-0.050	-0.606	0.5445	-0.006	NovM	80	0.034	0.409	0.6824	0.013
DecM	-122	-0.052	-0.627	0.5308	-0.008	DecM	376	0.160	1.942	0.0521	0.065
JanM	-74	-0.032	-0.378	0.7054	-0.004	JanM	446	0.190	2.305	0.0212	0.133
FebM	-52	-0.022	-0.264	0.7917	-0.005	FebM	468	0.199	2.419	0.0156	0.138
MarM	-66	-0.028	-0.337	0.7364	-0.006	MarM	446	0.190	2.305	0.0212	0.109
AprM	-214	-0.091	-1.103	0.2699	-0.017	AprM	214	0.091	1.103	0.2699	0.041
MayM	-258	-0.110	-1.331	0.1831	-0.013	MayM	-42	-0.018	-0.212	0.8318	-0.007
JunM	-180	-0.077	-0.927	0.3539	-0.005	JunM	-310	-0.132	-1.600	0.1095	-0.050
JulM	-190	-0.081	-0.979	0.3276	-0.004	JulM	-428	-0.182	-2.212	0.0270	-0.063
AugM	-152	-0.065	-0.782	0.4342	-0.003	AugM	-434	-0.185	-2.243	0.0249	-0.070
SepM	-106	-0.045	-0.544	0.5865	-0.003	SepM	-402	-0.171	-2.077	0.0378	-0.066
OctM	-236	-0.101	-1.217	0.2235	-0.007	OctM	-310	-0.132	-1.600	0.1095	-0.049
WHM	-144	-0.061	-0.741	0.4589	-0.011	WHM	388	0.165	2.004	0.0450	0.078
SHM	-226	-0.096	-1.165	0.2439	-0.007	SHM	-352	-0.150	-1.818	0.0691	-0.051

YM	-154	-0.066	-0.792	0.4281	-0.007	YM	90	0.038	0.461	0.6448	0.014
NovH	-144	-0.061	-0.741	0.4589	-0.006	NovH	-294	-0.125	-1.518	0.1291	-0.074
DecH	-214	-0.091	-1.103	0.2699	-0.016	DecH	-68	-0.029	-0.347	0.7286	-0.013
JanH	-112	-0.048	-0.575	0.5653	-0.009	JanH	180	0.077	0.927	0.3539	0.063
FebH	-150	-0.064	-0.772	0.4403	-0.013	FebH	182	0.078	0.937	0.3485	0.076
MarH	-120	-0.051	-0.616	0.5377	-0.011	MarH	154	0.066	0.792	0.4281	0.052
AprH	-228	-0.097	-1.176	0.2397	-0.024	AprH	-142	-0.061	-0.730	0.4652	-0.042
MayH	-202	-0.086	-1.041	0.2978	-0.015	MayH	-340	-0.145	-1.756	0.0791	-0.096
JunH	-166	-0.071	-0.855	0.3928	-0.006	JunH	-596	-0.254	-3.082	0.0021	-0.144
JulH	-116	-0.049	-0.596	0.5514	-0.004	JulH	-512	-0.218	-2.647	0.0081	-0.121
AugH	-132	-0.056	-0.679	0.4974	-0.003	AugH	-740	-0.315	-3.828	0.0001	-0.178
SepH	-130	-0.055	-0.668	0.5040	-0.004	SepH	-686	-0.292	-3.548	0.0004	-0.158
OctH	-200	-0.085	-1.031	0.3027	-0.008	OctH	-654	-0.279	-3.382	0.0007	-0.159
WHH	-208	-0.089	-1.072	0.2836	-0.025	WHH	-20	-0.009	-0.098	0.9216	-0.007
SHH	-218	-0.093	-1.124	0.2610	-0.018	SHH	-534	-0.228	-2.761	0.0058	-0.147
YH	-188	-0.080	-0.969	0.3328	-0.035	YH	-32	-0.014	-0.161	0.8724	-0.014
DL3	-160	-0.068	-0.824	0.4102	-0.002	DL3	418	0.178	2.160	0.0308	0.043
DL7	-148	-0.063	-0.761	0.4464	-0.002	DL7	354	0.151	1.828	0.0675	0.036
DL30	-152	-0.065	-0.782	0.4342	-0.002	DL30	162	0.069	0.834	0.4043	0.018
DL90	-138	-0.059	-0.710	0.4780	-0.002	DL90	10	0.004	0.047	0.9628	0.002
TBQ30	114	0.049	0.585	0.5584	0.225	TBQ30	-218	-0.093	-1.124	0.2610	-0.405
TBQ50	202	0.086	1.041	0.2978	0.645	TBQ50	-226	-0.096	-1.165	0.2439	-0.505
TBQ70	232	0.099	1.196	0.2315	0.586	TBQ70	-58	-0.025	-0.295	0.7678	-0.109
TBQ90	257	0.110	1.341	0.1800	0.035	TBQ90	60	0.026	0.306	0.7594	0.007
TQ3090	-62	-0.026	-0.316	0.7520	-0.144	TQ3090	-444	-0.189	-2.295	0.0218	-0.769
TQ5090	-38	-0.016	-0.192	0.8480	-0.141	TQ5090	-514	-0.219	-2.657	0.0079	-0.784

FR	S	Tau	Z-Value	P-value	Sen's Slope	OO	S	Tau	Z-Value	P-value	Sen's Slope
NovL	-188	-0.080	-0.969	0.3328	-0.001	NovL	-518	-0.221	-2.678	0.0074	-0.006

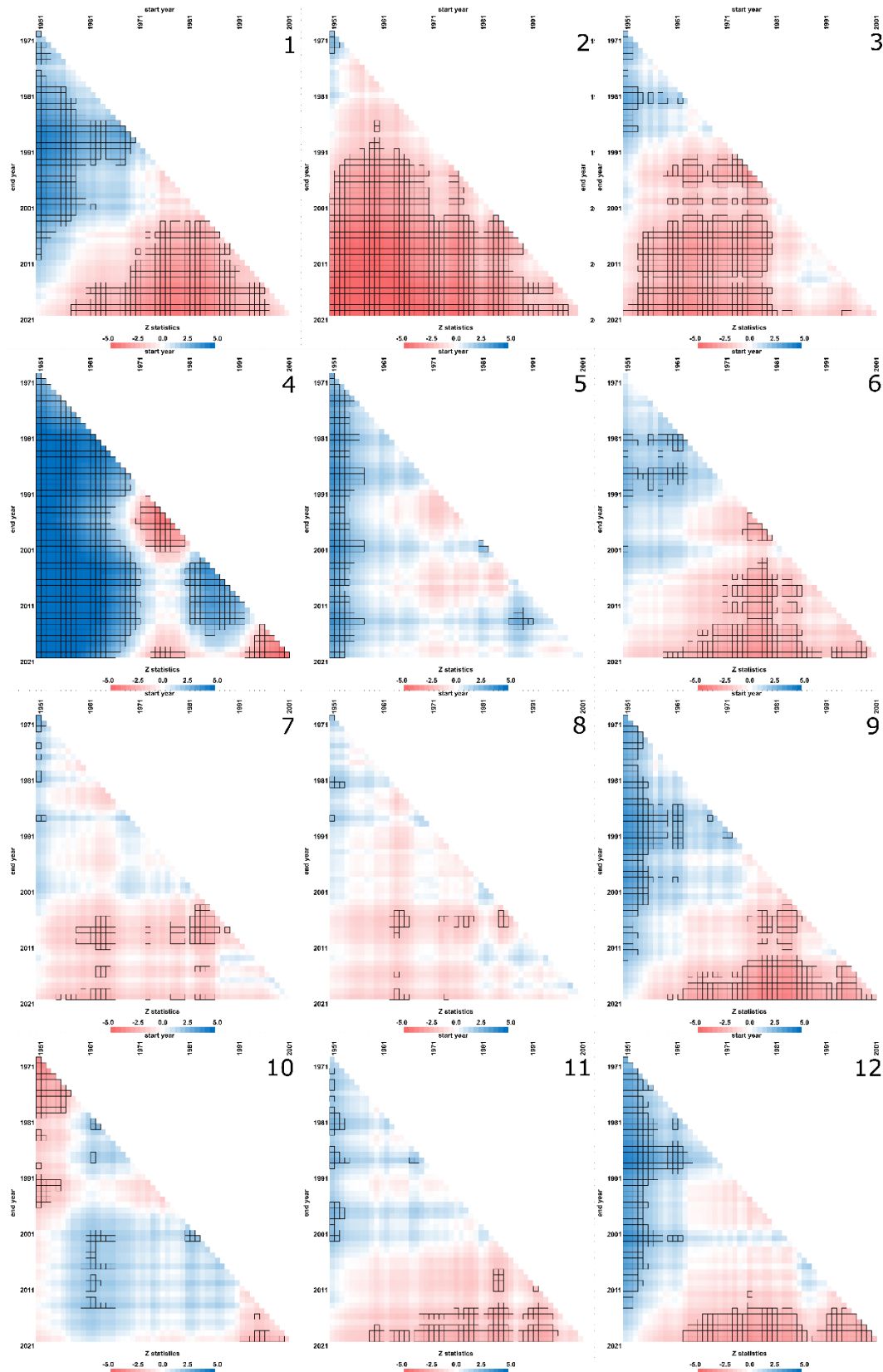
DecL	-160	-0.068	-0.824	0.4102	-0.001	DecL	-578	-0.246	-2.989	0.0028	-0.010
JanL	20	0.009	0.098	0.9216	0.000	JanL	-548	-0.234	-2.833	0.0046	-0.009
FebL	168	0.072	0.865	0.3871	0.001	FebL	-584	-0.249	-3.020	0.0025	-0.011
MarL	4	0.002	0.016	0.9876	0.000	MarL	-430	-0.183	-2.222	0.0263	-0.009
AprL	-548	-0.234	-2.833	0.0046	-0.004	AprL	-554	-0.236	-2.864	0.0042	-0.008
MayL	-530	-0.226	-2.740	0.0061	-0.002	MayL	-254	-0.108	-1.310	0.1901	-0.002
JunL	-474	-0.202	-2.450	0.0143	-0.001	JunL	-14	-0.006	-0.067	0.9463	0.000
JulL	-306	-0.130	-1.580	0.1142	-0.001	JulL	256	0.109	1.321	0.1866	0.001
AugL	-236	-0.101	-1.217	0.2235	-0.001	AugL	58	0.025	0.295	0.7678	0.000
SepL	-258	-0.110	-1.331	0.1831	-0.001	SepL	-312	-0.133	-1.611	0.1072	-0.002
OctL	-244	-0.104	-1.259	0.2082	-0.001	OctL	-616	-0.263	-3.185	0.0014	-0.005
WHL	-262	-0.112	-1.352	0.1764	-0.001	WHL	-698	-0.298	-3.610	0.0003	-0.006
SHL	-440	-0.188	-2.274	0.0230	-0.001	SHL	174	0.074	0.896	0.3702	0.001
YL	-440	-0.188	-2.274	0.0230	-0.001	YL	154	0.066	0.792	0.4281	0.001
NovM	-184	-0.078	-0.948	0.3432	-0.001	NovM	-426	-0.182	-2.201	0.0277	-0.009
DecM	-198	-0.084	-1.020	0.3076	-0.003	DecM	-464	-0.198	-2.398	0.0165	-0.014
JanM	-112	-0.048	-0.575	0.5653	-0.001	JanM	-254	-0.108	-1.310	0.1901	-0.010
FebM	42	0.018	0.212	0.8318	0.001	FebM	-216	-0.092	-1.114	0.2655	-0.009
MarM	68	0.029	0.347	0.7286	0.001	MarM	-272	-0.116	-1.404	0.1604	-0.012
AprM	-447	-0.191	-2.310	0.0209	-0.005	AprM	-430	-0.183	-2.222	0.0263	-0.013
MayM	-552	-0.235	-2.854	0.0043	-0.005	MayM	-220	-0.094	-1.134	0.2567	-0.003
JunM	-342	-0.146	-1.766	0.0774	-0.002	JunM	-144	-0.061	-0.741	0.4589	-0.002
JulM	-296	-0.126	-1.528	0.1265	-0.001	JulM	184	0.078	0.948	0.3432	0.002
AugM	-164	-0.070	-0.844	0.3985	-0.001	AugM	-102	-0.043	-0.523	0.6009	-0.001
SepM	-214	-0.091	-1.103	0.2699	-0.001	SepM	-302	-0.129	-1.559	0.1190	-0.003
OctM	-270	-0.115	-1.393	0.1635	-0.002	OctM	-368	-0.157	-1.901	0.0573	-0.006
WHM	-122	-0.052	-0.627	0.5308	-0.002	WHM	-350	-0.149	-1.808	0.0707	-0.011
SHM	-396	-0.169	-2.046	0.0408	-0.002	SHM	-228	-0.097	-1.176	0.2397	-0.003
YM	-170	-0.072	-0.875	0.3814	-0.001	YM	-278	-0.118	-1.435	0.1514	-0.006

NovH	-242	-0.103	-1.248	0.2119	-0.003	NovH	-250	-0.107	-1.290	0.1972	-0.009
DecH	-250	-0.107	-1.290	0.1972	-0.005	DecH	-390	-0.166	-2.015	0.0439	-0.024
JanH	-136	-0.058	-0.699	0.4844	-0.004	JanH	-82	-0.035	-0.420	0.6748	-0.007
FebH	6	0.003	0.026	0.9793	0.000	FebH	-80	-0.034	-0.409	0.6824	-0.011
MarH	-158	-0.067	-0.813	0.4161	-0.006	MarH	-134	-0.057	-0.689	0.4909	-0.013
AprH	-384	-0.164	-1.984	0.0473	-0.008	AprH	-198	-0.084	-1.020	0.3076	-0.012
MayH	-468	-0.199	-2.419	0.0156	-0.007	MayH	-108	-0.046	-0.554	0.5794	-0.004
JunH	-286	-0.122	-1.476	0.1399	-0.003	JunH	-224	-0.095	-1.155	0.2481	-0.005
JulH	-268	-0.114	-1.383	0.1667	-0.002	JulH	152	0.065	0.782	0.4342	0.002
AugH	-130	-0.055	-0.668	0.5040	-0.001	AugH	-132	-0.056	-0.679	0.4974	-0.002
SepH	-154	-0.066	-0.792	0.4281	-0.001	SepH	-164	-0.070	-0.844	0.3985	-0.003
OctH	-246	-0.105	-1.269	0.2044	-0.002	OctH	-220	-0.094	-1.134	0.2567	-0.005
WHH	-162	-0.069	-0.834	0.4043	-0.008	WHH	-356	-0.152	-1.839	0.0660	-0.058
SHH	-482	-0.205	-2.491	0.0127	-0.009	SHH	-22	-0.009	-0.109	0.9134	-0.001
YH	-196	-0.084	-1.010	0.3125	-0.011	YH	-266	-0.113	-1.373	0.1699	-0.043
DL3	-450	-0.192	-2.326	0.0200	-0.001	DL3	156	0.066	0.803	0.4221	0.001
DL7	-454	-0.194	-2.346	0.0190	-0.001	DL7	140	0.060	0.720	0.4716	0.001
DL30	-422	-0.180	-2.181	0.0292	-0.001	DL30	76	0.032	0.388	0.6977	0.000
DL90	-348	-0.148	-1.797	0.0723	-0.001	DL90	-112	-0.048	-0.575	0.5653	-0.001
TBQ30	190	0.081	0.979	0.3276	0.428	TBQ30	534	0.228	2.761	0.0058	0.966
TBQ50	368	0.157	1.901	0.0573	0.889	TBQ50	614	0.262	3.175	0.0015	1.281
TBQ70	548	0.234	2.833	0.0046	1.159	TBQ70	436	0.186	2.253	0.0243	0.944
TBQ90	544	0.232	2.812	0.0049	0.240	TBQ90	27	0.012	0.135	0.8923	0.000
TQ3090	-44	-0.019	-0.223	0.8238	-0.074	TQ3090	338	0.144	1.745	0.0809	0.647
TQ5090	38	0.016	0.192	0.8480	0.094	TQ5090	518	0.221	2.678	0.0074	0.777

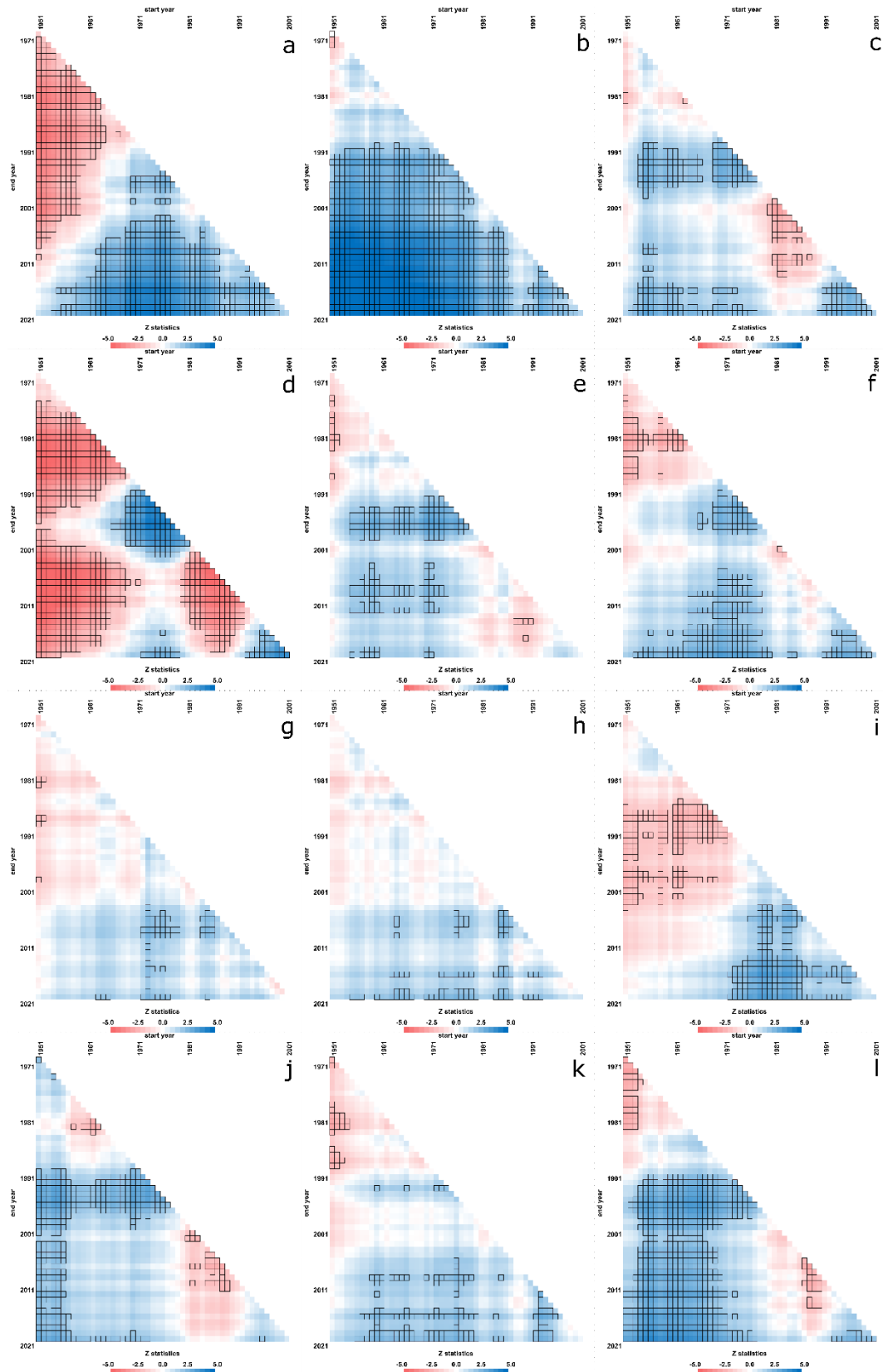


**Figure S1.** Multitemporal trend analysis of mean yearly discharges (YM) - Ner (a), Mała Noteć (b), Grabia (c), Widawka (d), Niesób (e), Prosna (f), Mogilnica (g), Sama (h), Drawa (i), Oleśnica (j), Wełna (k) and Ołobok (l) (marked fields indicate statistically significant changes at the level 0.05)

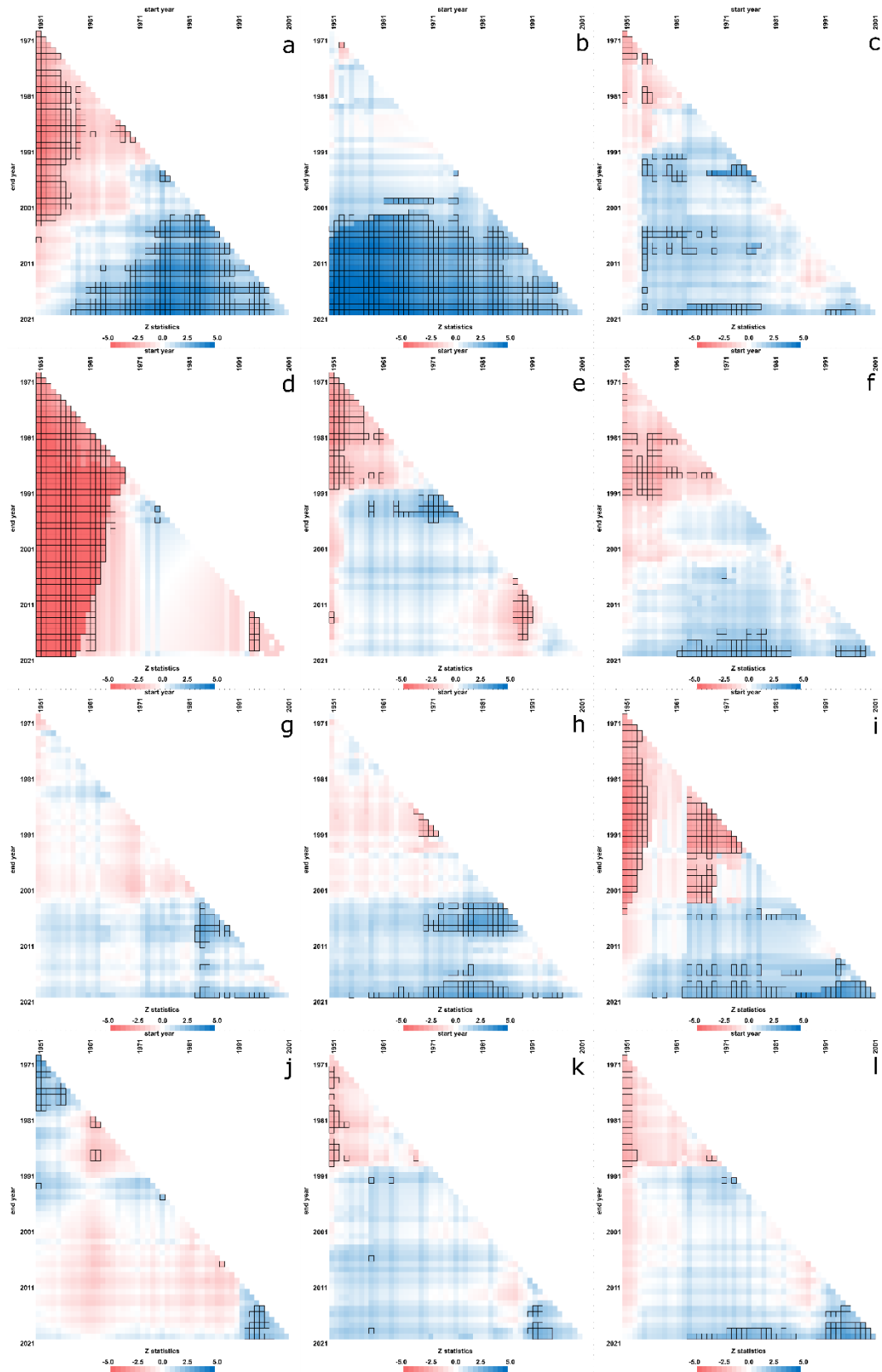




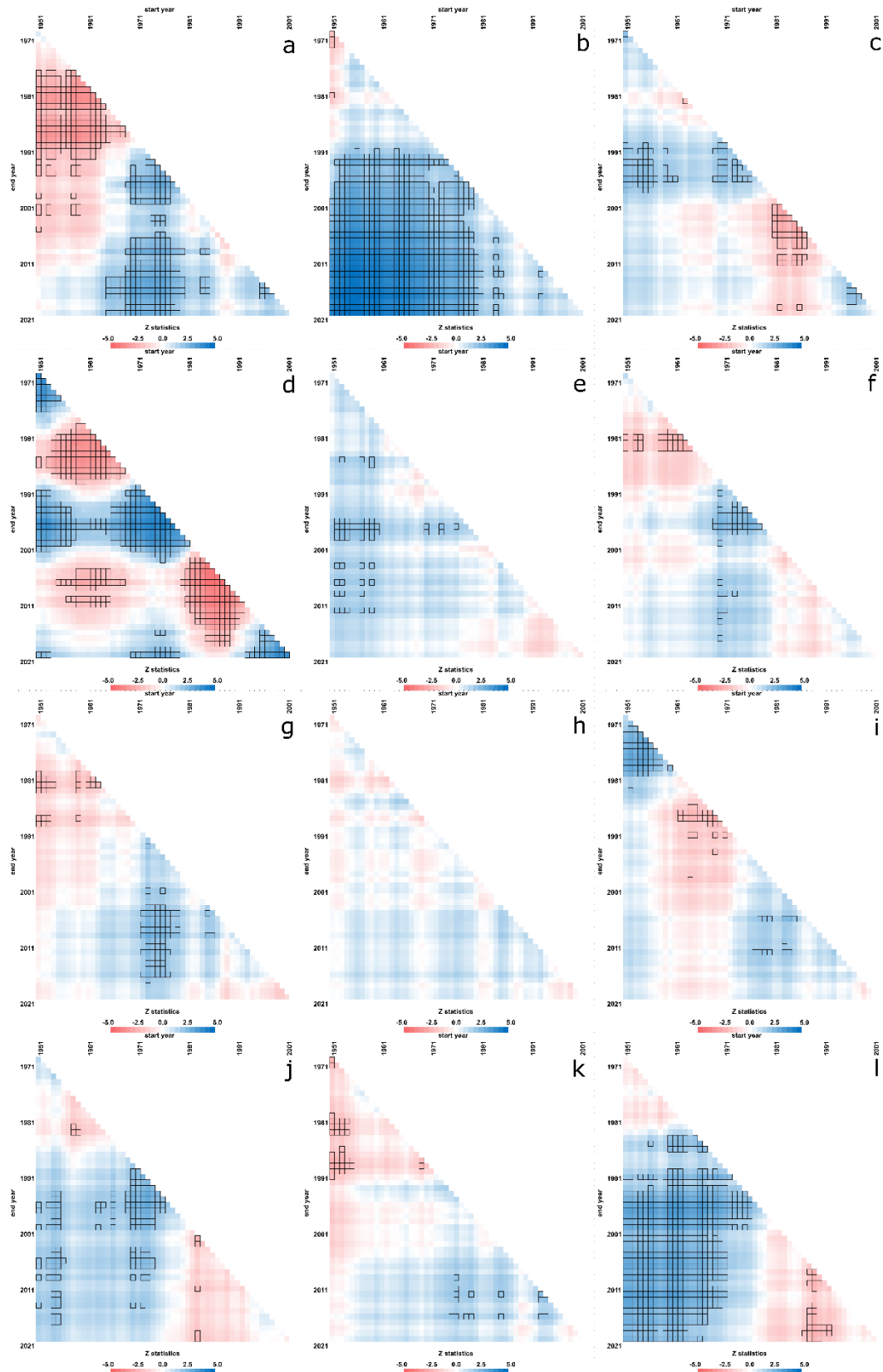
**Figure S2.** Multitemporal trend analysis of 7-days minimum discharges (DL7) - Ner (a), Mała Noteć (b), Grabia (c), Widawka (d), Niesób (e), Prosna (f), Mogilnica (g), Sama (h), Drawa (i), Oleśnica (j), Wełna (k) and Ołobok (l) (marked fields indicate statistically significant changes at the level 0.05)



**Figure S3.** Multitemporal trend analysis of flows time below Q50% (TBQ50%) - Ner (a), Mała Noteć (b), Grabia (c), Widawka (d), Niesób (e), Prosna (f), Mogilnica (g), Sama (h), Drawa (i), Oleśnica (j), Wełna (k) and Ołobok (l) (marked fields indicate statistically significant changes at the level 0.05)



**Figure S4.** Multitemporal trend analysis of flows time below Q90% (TBQ90%) - Ner (a), Mała Noteć (b), Grabia (c), Widawka (d), Niesób (e), Prosna (f), Mogilnica (g), Sama (h), Drawa (i), Oleśnica (j), Wełna (k) and Ołobok (l) (marked fields indicate statistically significant changes at the level 0.05)



**Figure S5.** Multitemporal trend analysis of flows time below Q90% (TQ5090%) - Ner (a), Mała Noteć (b), Grabia (c), Widawka (d), Niesób (e), Prosna (f), Mogilnica (g), Sama (h), Drawa (i), Oleśnica (j), Wełna (k) and Ołobok (l) (marked fields indicate statistically significant changes at the level 0.05)