



Supplement of

How do geological map details influence the identification of geology-streamflow relationships in large-sample hydrology studies?

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Introduction

This document provides information on the 63 regional basins used for the large-scale analysis (Table S1), on the 152 Moselle sub-catchments used for the intermediate and local-scale analysis (Table S2), the maximum correlation values found per attribute group (Table S3), and the attribute with the highest correlation within each climatic-landscape group for baseflow index (Table S4), Q mean (Table S5), Q5 (Table S6), Q95 (Table S7), HFD (Table S8) and FDC slope (Table S9).

Table S1: General overview of the 63 basins used. The outlet code is given according to the used in EStreams.

Basin id (outlet)	Gauge name	River	Longitude	Latitude	Area (km ²)	N of gauges
ES000801	ORELLANA		-5.65010	39.01844	26470.6	34
ES000665	PALMA DEL RIO		-5.28893	37.71745	32359.4	43
ES001243	TALavera		-4.81613	39.95435	33576.9	94
ES000196	VALLADOLID-PISUERGA		-4.73236	41.66117	15578.4	37
ES000194	BRETO		-5.76546	41.87223	14406.8	33
ES001080	SALVATIERRA DE MIÑO		-8.49274	42.08053	15650.5	39
ES000316	CASTEJON		-1.69474	42.18008	25155.7	76
ES000339	SEROS		0.41627	41.45157	12929.5	37
ES000331	FRAGA		0.32335	41.55191	9567.5	25
GB000472	Severn at Haw Bridge	Severn at Haw Bridge	-2.23000	51.95000	9892.2	29
GB000271	Thames at Kingston	Thames at Kingston	-0.31000	51.42000	9937.2	40
GB000153	Trent at North Muskham	Trent at North Muskham	-0.80000	53.14000	8215.2	30
ITTO0361	S. Giovanni alla Vena valle	Arno	10.58534	43.68459	8900.2	31
ITVE0408	Adige a Boara Pisani	Adige	11.78424	45.10548	12020.9	36
ITPI0183	PO	PONTE S.S. 211	8.82194	45.03611	25565.8	62
FI000557	Merikoski	Oulujoki	25.47342	65.02264	22830.4	31
FI000226	Voikkaa	Kymijoki	26.59789	60.93871	34932.7	50
FI000137	Harjavalta	Kokemäenjoki	22.11420	61.33749	25430.7	29
PL000936	ZAMBSKI KOŚCIELNE	Narew (26)	21.20609	52.75597	28500.0	70
PL000868	KOŚMIN	Wieprz (24)	22.00125	51.57310	10200.0	25

PL000794	RADOMYŚL	San (22)	21.93069	50.67356	16700.0	50
HR000048	TEREZINO POLJE	DRAVA	17.46128	45.94572	34230.5	152
HUGR0037	BACSA	MOSONI-DUNA	17.67600	47.72500	17785.7	68
AT000393	Angern an der March	March	16.83384	48.38306	25615.6	119
PL000253	SKWIERZYNA	Warta (18)	15.50015	52.60194	31600.0	60
PL000349	GOŚCIMIEC	Noteæ (188)	15.63837	52.77555	16500.0	35
PL000015	ŚCINAWA	Odra (1)	16.44346	51.40882	29700.0	143
CZ000097	Kostelec nad Labem	Labe	14.59261	50.23795	13183.4	71
DEST1711	Leuna-Kröllwitz	Saale	12.04943	51.30570	12065.6	47
DEBY0711	Passau	Inn	13.44419	48.56145	26054.7	141
DEBY0724	Deggendorf	Isar	12.88358	48.77090	8960.0	45
DEBY0697	Kelheim	Donau	12.01499	48.94695	26479.5	115
DEBU1953	BundespegelFrankfurt Osthafen	Main	8.71500	50.10600	24800.0	142
NL000008	Venlo	Meuse	6.16018	51.36881	26066.7	181
CH000026	Rheinfelden- Messstation	Rhein	7.80000	47.56000	34485.4	131
FR002679	W3200010	L'Isère à Saint-Gervais [Le Port]	5.46564	45.20680	9974.5	33
FR004615	La Saône à Mâcon [amont]	La Saône à Mâcon [amont]	4.83065	46.29679	26198.0	139
NL000016	Schaar van Ouden Doel	NaN	4.25066	51.35029	9500.0	39
BEVL0155	Evergem	Ringvaart	3.66643	51.08988	10231.2	36
FR000408	H7611010	L'Oise à Creil et à Pont-Sainte- Maxence	2.46051	49.25568	14128.5	59
FR000373	H5841070	La Marne à Créteil	2.46690	48.80523	12811.0	54
FR000345	NaN	La Seine à Alfortville et à Villeneuve-Saint-G...	2.41830	48.78024	30706.8	123
FR001071	K4080010	La Loire à Saint-Satur	2.86667	47.34120	34120.5	174
FR003922	Le Cher à Savonnières	Le Cher à Savonnières	0.54601	47.34857	13699.3	51

FR003986	La Vienne Ã Chinon	La Vienne à Chinon	0.23839	47.16594	20819.2	95
FR002118	NaN	La Charente à Saintes	-0.62973	45.74708	7394.8	32
FR001952	P5550010	La Dordogne à Pessac-sur-Dordogne	0.07804	44.82123	14885.0	82
FR002029	Q3120030	L'Adour à Dax [Pont des arènes]	-1.05389	43.71220	7811.6	53
FR001604	O2620010	La Garonne à Verdun-sur-Garonne	1.24218	43.85464	13752.1	64
FR004221	Le Tarn Ã Villemade	Le Tarn à Villemade	1.27076	44.08484	9718.3	49
ES001171	GUARDAMAR (PRESA DE S. ANTONIO)		-0.66159	38.09265	14858.6	45
ES001010	HUERTO MULET		-0.40995	39.18825	21330.6	30
PL000536	SANDOMIERZ	Wisa (2)	21.74623	50.67261	31800.0	175
HR000278	JASENOVAC	SAVA	16.90745	45.26670	28721.6	108
CZ000236	Vraňany	Vltava	14.36263	50.31318	28062.1	122
DEST1707	Priorau	Mulde	12.29547	51.73154	7021.0	40
DEBE0155	Tiefwerder	Havel	13.20501	52.52444	12253.9	50
FR002758	X3500010	La Durance à Caumont-sur-Durance [Bonpas]	4.92320	43.88880	14025.8	34
FR002462	V3000015	Le Rhône à Lyon	4.83096	45.74811	20551.7	88
FR001394	M4101910	La Maine à Angers	-0.55890	47.47156	22176.0	91
FR000867	J9300611	La Vilaine à Rieux	-2.12636	47.58011	10146.5	45
FR004308	Le Lot Ã Villeneuve-sur-Lot	Le Lot à Villeneuve-sur-Lot	0.70122	44.40931	10748.6	55
DEBU1959	BundespegelCochem	Mosel	7.16800	50.14300	27100.0	152

Table S2: General overview of the 152 sub-catchments of the Moselle. The basin id is given according to the code used in EStreams.

Basin id	Area (km ²)	Longitude	Latitude	Start	End	N° of years
BEWA0066	357.8	6.152	50.188	1/1/1998	12/31/2021	24
BEWA0067	101.0	6.263	50.289	1/1/1999	12/31/2021	23
BEWA0087	209.6	5.739	49.834	6/4/1976	12/31/2021	46
BEWA0106	58.5	6.151	50.197	9/3/1991	12/31/2021	31
BEWA0107	77.1	6.154	50.234	9/3/1991	12/31/2021	31
BEWA0119	395.5	6.142	50.142	1/1/1992	12/31/2021	30
DEBU1956	11500.0	6.369	49.473	1/1/1975	7/31/2021	46
DEBU1957	6970.0	6.648	49.409	1/1/1953	7/31/2021	68
DEBU1958	23800.0	6.627	49.732	1/1/1931	7/31/2021	89
DEBU1959	27100.0	7.168	50.143	1/1/1901	7/31/2021	120
DERP2003	3250.0	6.359	49.851	11/1/1958	12/31/2021	64
DERP2004	615.0	6.171	49.985	11/1/1972	12/31/2021	50
DERP2005	125.0	6.154	49.993	11/1/1976	12/31/2021	46
DERP2006	54.0	6.440	50.219	11/1/1975	12/31/2021	47
DERP2007	576.0	6.437	49.868	11/1/1972	12/31/2021	50
DERP2008	101.0	6.323	49.970	11/1/1975	12/31/2021	47
DERP2010	137.0	6.500	50.064	11/1/1973	12/31/2021	49
DERP2011	264.0	6.462	49.883	11/1/1956	12/31/2021	66
DERP2013	530.0	7.419	49.254	11/1/1952	12/31/2021	70
DERP2014	430.0	7.371	49.205	11/1/1962	12/31/2021	60
DERP2015	112.0	7.365	49.180	11/1/1972	12/31/2021	50
DERP2016	77.0	6.542	49.602	11/1/1962	12/31/2021	60
DERP2017	102.0	6.694	49.615	11/1/1972	12/31/2021	50
DERP2018	225.0	6.727	49.762	11/1/1985	12/31/2021	37
DERP2021	176.0	6.601	50.334	11/1/1972	12/31/2021	50
DERP2022	301.0	6.671	50.224	11/1/1976	12/31/2021	46
DERP2023	472.0	6.603	50.135	11/1/1972	12/31/2021	50
DERP2024	819.0	6.643	49.835	11/1/1967	12/31/2021	55
DERP2027	63.0	6.614	50.238	11/1/1972	12/31/2021	50
DERP2028	50.0	6.718	50.048	9/1/1966	12/31/2021	56
DERP2029	192.0	6.808	49.946	11/1/1972	12/31/2021	50
DERP2030	170.0	6.940	49.827	12/7/1955	12/31/2021	67
DERP2031	124.0	6.894	49.789	11/1/1972	12/31/2021	50
DERP2033	377.0	6.954	49.941	11/1/1972	12/31/2021	50
DERP2036	177.0	7.079	50.067	11/1/1976	12/31/2021	46

Basin id	Area (km ²)	Longitude	Latitude	Start	End	N° of years
FR000124	71.2	6.796	47.867	1/1/1972	9/30/2023	52
FR000125	151.5	6.686	47.909	8/30/1968	9/30/2023	56
FR000126	184.5	6.716	47.993	11/2/2005	9/30/2023	19
FR000127	185.3	6.713	47.996	4/20/1967	12/14/2006	40
FR000128	628.0	6.611	48.067	12/1/1961	9/30/2023	63
FR000132	95.6	6.752	48.185	6/26/1986	9/30/2023	38
FR000133	356.0	6.605	48.134	1/1/1970	3/24/1988	19
FR000134	1500.7	6.391	48.312	10/16/2014	9/30/2023	10
FR000135	1979.5	6.264	48.532	1/1/2010	9/30/2023	14
FR000136	172.3	6.150	48.214	1/2/2010	9/30/2023	14
FR000137	114.1	6.175	48.260	1/1/1980	9/30/2023	44
FR000138	382.2	6.136	48.303	4/2/1994	9/30/2023	30
FR000139	382.3	6.137	48.305	8/10/1965	9/28/2006	42
FR000140	3078.6	6.101	48.607	9/16/1988	9/30/2023	36
FR000142	369.5	6.957	48.284	8/30/1967	9/30/2023	57
FR000143	152.1	6.885	48.382	8/12/1969	12/31/1984	16
FR000144	117.8	6.878	48.416	1/1/1970	9/30/2023	54
FR000148	112.8	6.845	48.588	1/1/2010	9/30/2023	14
FR000151	98.4	6.687	48.295	1/1/1970	12/31/2009	40
FR000153	299.4	6.614	48.369	2/18/1992	9/30/2023	32
FR000154	289.5	6.342	48.628	1/1/1988	9/30/2023	36
FR000156	2783.5	6.272	48.643	12/31/1985	9/30/2023	39
FR000158	2881.7	6.189	48.705	1/1/1960	12/30/1990	31
FR000159	2882.9	6.179	48.711	1/2/1991	4/14/2023	33
FR000160	85.2	6.198	48.747	8/7/1971	12/23/2005	35
FR000163	7763.8	6.054	49.031	4/26/2014	9/30/2023	10
FR000169	149.3	6.506	48.818	1/1/1969	9/30/2023	49
FR000171	1272.1	6.188	49.101	10/1/1964	9/21/2015	52
FR000174	132.2	5.837	49.099	12/4/1998	9/30/2023	26
FR000175	379.5	5.862	49.156	10/12/1967	2/27/2003	37
FR000183	70.8	7.009	48.655	8/1/1968	9/30/2023	56
FR000184	90.0	7.064	48.640	8/1/1968	9/30/2023	56
FR000185	188.5	7.014	48.680	8/1/1968	12/30/2010	43
FR000187	404.4	7.012	48.983	1/1/1967	12/30/1994	28
FR000189	1784.2	7.071	49.112	1/1/2008	5/2/2022	15
FR000190	3745.1	7.044	49.122	10/1/1975	1/9/2018	28
FR000191	1717.9	7.264	49.237	1/1/2014	9/30/2023	10
FR000192	1798.5	7.184	49.136	1/1/2014	9/30/2023	10

Basin id	Area (km ²)	Longitude	Latitude	Start	End	N° of years
FR000193	1812.6	7.178	49.116	9/27/1977	12/30/1994	18
FR000197	184.8	6.859	49.187	1/1/1966	3/12/2006	36
FR000198	328.9	6.383	49.029	1/1/2003	9/30/2023	21
FR000200	499.4	6.421	49.147	1/1/1969	9/30/2023	53
FR000201	185.9	6.614	49.047	4/28/1984	9/30/2023	40
FR003234	64.5	6.690	48.053	8/6/1970	9/30/2023	54
FR003236	356.0	6.603	48.133	3/30/1988	9/30/2023	36
FR003237	1218.1	6.453	48.166	1/1/1960	9/30/2023	64
FR003238	146.0	6.409	48.304	1/1/1971	12/30/1988	18
FR003239	103.1	6.367	48.293	1/1/1970	9/30/2023	54
FR003241	1985.7	6.260	48.536	8/20/1980	9/30/2023	41
FR003243	63.9	6.192	48.375	1/1/1980	6/30/2008	29
FR003244	143.6	6.140	48.531	8/6/1969	6/12/2007	39
FR003246	945.9	6.132	48.545	1/20/1964	9/30/2023	60
FR003247	65.9	5.909	48.626	1/1/1983	2/12/2008	26
FR003249	3396.8	5.896	48.670	1/1/1960	9/30/2023	64
FR003250	67.1	7.003	48.185	7/8/1971	9/30/2023	53
FR003251	725.3	6.845	48.402	11/1/1973	9/30/2023	51
FR003252	934.4	6.739	48.449	12/17/1982	4/13/2023	36
FR003253	1103.0	6.481	48.583	12/18/1982	9/30/2023	36
FR003254	112.8	6.844	48.588	1/1/1996	4/2/2023	28
FR003255	107.9	6.879	48.588	4/1/1990	12/29/2007	18
FR003256	471.3	6.625	48.581	1/20/1992	9/30/2023	32
FR003257	561.0	6.487	48.595	1/1/1969	9/30/2023	55
FR003258	98.4	6.686	48.296	1/1/2010	9/30/2023	14
FR003259	64.7	6.646	48.324	12/14/1990	4/28/2010	21
FR003261	490.6	6.524	48.487	11/1/1969	9/30/2023	55
FR003262	2310.6	6.384	48.563	1/2/1973	9/30/2023	51
FR003263	71.0	6.717	48.689	10/22/1969	12/17/2005	37
FR003265	6822.7	6.122	48.790	1/26/1973	9/30/2023	51
FR003266	226.2	6.043	48.866	8/7/1969	9/30/2023	55
FR003267	363.1	5.962	49.012	8/18/1964	9/30/2023	60
FR003268	351.8	6.568	48.781	8/23/1985	9/30/2023	39
FR003270	556.5	6.457	48.784	12/30/2002	9/30/2023	22
FR003271	926.7	6.228	48.888	1/1/1969	9/30/2023	55
FR003272	9391.5	6.197	49.223	1/1/1960	2/19/2013	54
FR003273	9425.7	6.185	49.256	11/26/2012	9/30/2023	12
FR003274	135.7	5.632	49.214	1/1/1997	9/30/2023	26

Basin id	Area (km ²)	Longitude	Latitude	Start	End	N° of years
FR003275	399.5	5.830	49.163	10/12/1967	9/30/2023	56
FR003276	155.6	5.876	49.142	1/1/2013	9/30/2023	11
FR003277	828.2	5.882	49.168	1/1/2007	9/30/2023	17
FR003280	74.7	5.933	49.247	6/15/1967	9/30/2023	57
FR003281	1147.0	6.042	49.249	12/25/2003	9/30/2023	21
FR003283	1242.0	6.072	49.256	12/17/1967	9/30/2023	57
FR003284	10801.2	6.173	49.317	10/2/1981	9/30/2023	43
FR003288	108.8	6.272	49.392	1/1/1971	9/30/2023	53
FR003290	53.1	6.024	49.445	8/5/2014	9/30/2023	10
FR003293	254.0	7.050	48.737	12/26/1995	9/30/2023	29
FR003294	147.5	7.071	48.850	1/1/1969	9/30/2023	55
FR003295	715.8	7.055	48.877	7/1/1970	9/30/2023	54
FR003296	882.0	7.039	48.970	1/1/1967	9/30/2023	57
FR003297	407.2	7.019	48.997	5/27/2011	9/30/2023	13
FR003298	1312.9	7.034	49.005	1/1/2008	9/30/2023	16
FR003299	152.4	7.188	48.942	1/1/2010	9/30/2023	14
FR003300	278.2	7.130	49.000	5/1/1968	9/30/2023	56
FR003301	1716.5	7.150	49.053	12/31/1996	9/30/2023	28
FR003302	1759.0	7.107	49.087	1/1/1964	6/23/2021	57
FR003303	95.2	7.472	49.127	10/25/1969	9/30/2023	50
FR003306	58.1	6.689	49.226	1/1/1980	9/30/2023	44
FR003307	366.0	6.446	49.142	1/1/1969	9/30/2023	55
FR003308	1166.5	6.545	49.324	5/29/2002	9/30/2023	22
FR003309	1147.1	6.539	49.301	11/6/1964	1/11/2006	43
LU000001	308.5	5.801	49.870	1/1/2002	7/31/2021	20
LU000002	291.8	6.056	49.785	1/1/2002	7/31/2021	20
LU000004	147.6	6.028	50.055	1/1/2010	7/31/2021	12
LU000005	449.3	6.126	50.050	1/1/2002	7/31/2021	20
LU000006	2173.6	6.162	49.867	1/1/2002	7/31/2021	20
LU000007	1115.8	6.099	49.845	1/1/2002	7/31/2021	20
LU000008	430.8	5.951	49.901	1/1/2002	7/31/2021	20
LU000009	307.0	6.149	49.586	1/1/2002	7/31/2021	20
LU000010	163.7	6.080	49.729	1/1/2002	7/31/2021	20
LU000011	427.9	6.025	49.947	1/1/2002	7/31/2021	20
LU000013	257.4	6.115	49.526	1/1/2002	7/31/2021	20
LU000014	733.3	6.116	49.753	1/1/2002	7/31/2021	20
LU000015	946.5	6.091	49.895	1/1/2002	7/31/2021	20
LU000016	387.3	6.132	49.621	1/1/2002	7/31/2021	20

Basin id	Area (km ²)	Longitude	Latitude	Start	End	N° of years
LU000017	4255.5	6.510	49.786	1/1/2002	7/31/2021	20
LU000018	83.6	6.101	49.723	1/1/2002	7/31/2021	20
LU000019	638.4	6.205	49.939	1/1/2002	7/31/2021	20

Table S3: Highest correlation with baseflow index found per attributes group.

Basin id	Global geo.	Continental geo.	Climate	Soils	Topography	Land use	Max corr.	Area	N. of gauges
FR000408	0.014	0.342	0.697	0.568	0.718	0.796	0.796	14128.465	59
PL000936	0.022	0.671	0.534	0.469	0.667	0.631	0.667	28500	70
NL000016	0.037	0.569	0.800	0.453	0.474	0.550	0.800	9500	39
PL000349	0.089	0.046	0.564	0.357	0.537	0.686	0.686	16500	35
ES000196	0.100	0.453	0.188	0.517	0.278	0.274	0.517	15578.353	37
ES000194	0.108	0.504	0.723	0.417	0.687	0.454	0.723	14406.755	33
DEBY0724	0.124	0.343	0.369	0.405	0.389	0.544	0.544	8960.04	45
PL000015	0.126	0.218	0.397	0.373	0.397	0.380	0.397	29700	143
FR002118	0.151	0.410	0.414	0.359	0.433	0.645	0.645	7394.765	32
FR003986	0.160	0.184	0.391	0.535	0.470	0.509	0.535	20819.208	95
NL000008	0.183	0.239	0.318	0.299	0.391	0.454	0.454	26066.728	181
ES000339	0.186	0.220	0.251	0.241	0.337	0.156	0.337	12929.504	37
PL000536	0.192	0.390	0.459	0.597	0.624	0.737	0.737	31800	175
ITTO0361	0.207	0.564	0.601	0.151	0.450	0.219	0.601	8900.247	31
FR004221	0.237	0.425	0.316	0.324	0.396	0.381	0.396	9718.322	49
DEBY0697	0.251	0.440	0.504	0.508	0.340	0.343	0.508	26479.497	115
FR001071	0.255	0.222	0.419	0.451	0.583	0.530	0.583	34120.501	174
FR004308	0.293	0.215	0.231	0.328	0.198	0.203	0.328	10748.554	55
PL000794	0.296	0.589	0.556	0.688	0.784	0.565	0.784	16700	50
HUGR0037	0.313	0.266	0.366	0.434	0.330	0.211	0.434	17785.708	68
FR000373	0.318	0.245	0.736	0.725	0.761	0.722	0.761	12811.01	54
ES001010	0.320	0.262	0.332	0.602	0.428	0.271	0.602	21330.624	30
ES000665	0.328	0.385	0.636	0.613	0.596	0.272	0.636	32359.392	43
GB000271	0.330	0.458	0.317	0.591	0.574	0.307	0.591	9937.208	40
FR004615	0.351	0.220	0.335	0.194	0.256	0.321	0.335	26198.013	139
DEBU1953	0.371	0.403	0.396	0.229	0.231	0.148	0.396	24800	142
FR001952	0.373	0.311	0.328	0.489	0.434	0.496	0.496	14885.034	82
FI000557	0.398	0.493	0.560	0.580	0.554	0.527	0.580	22830.407	31
FR000345	0.414	0.362	0.430	0.341	0.504	0.502	0.504	30706.824	123
ITVE0408	0.424	0.488	0.391	0.360	0.295	0.411	0.411	12020.86	36
CZ000236	0.424	0.284	0.532	0.397	0.477	0.231	0.532	28062.08	122
HR000278	0.429	0.388	0.571	0.586	0.631	0.471	0.631	28721.57	108
CH000026	0.438	0.432	0.340	0.460	0.409	0.534	0.534	34485.421	131

HR000048	0.446	0.387	0.477	0.463	0.468	0.329	0.477	34230.537	152
DEBY0711	0.458	0.439	0.457	0.403	0.504	0.428	0.504	26054.667	141
AT000393	0.462	0.428	0.323	0.365	0.443	0.462	0.462	25615.598	119
GB000153	0.464	0.200	0.409	0.585	0.236	0.405	0.585	8215.227	30
ITPI0183	0.467	0.340	0.584	0.581	0.576	0.585	0.585	25565.751	62
DEBE0155	0.472	0.178	0.370	0.333	0.463	0.567	0.567	12253.909	50
FR002679	0.485	0.614	0.573	0.447	0.702	0.249	0.702	9974.543	33
CZ000097	0.509	0.458	0.450	0.461	0.434	0.374	0.461	13183.43	71
ES000316	0.513	0.239	0.460	0.383	0.273	0.261	0.460	25155.699	76
DEBU1959	0.538	0.587	0.305	0.496	0.541	0.587	0.587	27100	152
ES001243	0.538	0.574	0.547	0.670	0.394	0.452	0.670	33576.944	94
FR003922	0.556	0.674	0.580	0.431	0.647	0.712	0.712	13699.26	51
FI000137	0.559	0.363	0.700	0.608	0.420	0.433	0.700	25430.714	29
PL000253	0.560	0.194	0.634	0.625	0.729	0.574	0.729	31600	60
DEST1707	0.560	0.341	0.337	0.402	0.483	0.338	0.483	7020.963	40
FR002029	0.561	0.712	0.749	0.881	0.553	0.928	0.928	7811.634	53
GB000472	0.574	0.755	0.524	0.835	0.491	0.492	0.835	9892.245	29
ES001080	0.574	0.246	0.598	0.434	0.536	0.505	0.598	15650.545	39
DEST1711	0.578	0.706	0.782	0.688	0.823	0.708	0.823	12065.604	47
ES001171	0.587	0.438	0.723	0.743	0.642	0.721	0.743	14858.569	45
PL000868	0.608	0.274	0.781	0.604	0.729	0.710	0.781	10200	25
ES000331	0.613	0.288	0.236	0.450	0.286	0.518	0.518	9567.466	25
FI000226	0.625	0.707	0.652	0.714	0.639	0.530	0.714	34932.663	50
FR001394	0.632	0.339	0.351	0.495	0.333	0.209	0.495	22175.954	91
BEVL0155	0.646	0.865	0.501	0.746	0.627	0.609	0.746	10231.176	36
ES000801	0.671	0.761	0.780	0.667	0.713	0.629	0.780	26470.566	34
FR002462	0.726	0.702	0.573	0.691	0.663	0.781	0.781	20551.737	88
FR002758	0.737	0.648	0.829	0.804	0.787	0.825	0.829	14025.824	34
FR000867	0.797	0.363	0.747	0.537	0.658	0.433	0.747	10146.529	45
FR001604	0.802	0.867	0.814	0.809	0.818	0.775	0.818	13752.051	64

Table S4: Attribute with the highest correlation per group for baseflow index.

Basin id	Climate	Land use	Soils	Topography	Global geo.	Continental geo.	Regional geo.
ES000801	frac_snow	lulc_2006_NonIrrAgri	soil_tawc_mean	ele_mt_min	perm_high_glob	perm_low_cont	-
ES000665	sno_cov_mean	ndvi_mean	soil_fra_silt_mean	ele_mt_mean	perm_verylow_glob	perm_high_cont	-
ES001243	p_seasonality	lai_mean	soil_tawc_mean	area_estreams	perm_medium_glob	perm_medium_cont	-
ES000196	frac_snow	lulc_2006_urban	soil_bd_mean	area_estreams	perm_high_glob	perm_verylow_cont	-
ES000194	sno_cov_mean	lai_mean	root_dep_max	steep_area_fra	perm_verylow_glob	perm_medium_cont	-
ES001080	frac_snow	lai_mean	root_dep_mean	steep_area_fra	perm_verylow_glob	perm_medium_cont	-
ES000316	hp_dur	ndvi_mean	root_dep_mean	area_estreams	perm_low_glob	perm_high_cont	-
ES000339	hp_time	lulc_2006_NonIrrAgri	soil_fra_clay_mean	ele_mt_max	perm_high_glob	perm_verylow_cont	-

ES000331	hp_dur	ndvi_mean	soil_fra_clay_mean	area_estreams	perm_high_glob	perm_verylow_cont	-
GB000472	lp_time	lulc_2006_urban	soil_bd_mean	steep_area_fra	perm_high_glob	perm_high_cont	-
GB000271	frac_snow	lulc_2006_Agric	soil_fra_grav_mean	flat_area_fra	perm_high_glob	perm_high_cont	-
GB000153	lp_time	lulc_2006_forest	soil_tawc_mean	area_estreams	perm_verylow_glob	perm_low_cont	-
ITTO0361	lp_freq	lulc_2006_grass	soil_oc_mean	area_estreams	perm_medium_glob	perm_medium_cont	-
ITVE0408	frac_snow	lulc_2006_forest	soil_oc_mean	ele_mt_mean	perm_verylow_glob	perm_verylow_cont	-
ITPI0183	sno_cov_mean	ndvi_mean	root_dep_min	ele_mt_max	perm_low_glob	perm_verylow_cont	-
FI000557	hp_freq	lulc_2006_NonIrrAgri	root_dep_mean	ele_mt_mean	perm_high_glob	perm_low_cont	-
FI000226	hp_freq	lulc_2006_forest	soil_fra_silt_mean	ele_mt_min	perm_high_glob	perm_low_cont	-
FI000137	hp_dur	lai_mean	soil_fra_grav_mean	steep_area_fra	perm_low_glob	perm_low_cont	-
PL000936	pet_mean	lulc_2006_Agric	soil_tawc_mean	flat_area_fra	perm_high_glob	perm_verylow_cont	-
PL000868	lp_dur	lulc_2006_Agric	soil_oc_mean	ele_mt_mean	perm_high_glob	perm_high_cont	-
PL000794	aridity	lai_mean	bedrk_dep	ele_mt_min	perm_high_glob	perm_verylow_cont	-
HR000048	p_seasonality	lulc_2006_forest	soil_oc_mean	ele_mt_max	perm_low_glob	perm_verylow_cont	-
HUGR0037	hp_freq	lulc_2006_NonIrrAgri	soil_fra_grav_mean	steep_area_fra	perm_low_glob	perm_medium_cont	-
AT000393	p_mean	ndvi_mean	bedrk_dep	area_estreams	perm_high_glob	perm_low_cont	-
PL000253	hp_freq	lulc_2006_grass	root_dep_min	steep_area_fra	perm_high_glob	perm_medium_cont	-
PL000349	p_seasonality	lulc_2006_grass	bedrk_dep	flat_area_fra	perm_high_glob	perm_high_cont	-
PL000015	hp_dur	lulc_2006_Agric	root_dep_mean	steep_area_fra	perm_low_glob	perm_verylow_cont	-
CZ000097	hp_freq	lulc_2006_grass	root_dep_min	steep_area_fra	perm_high_glob	perm_low_cont	-
DEST1711	aridity	lulc_2006_NonIrrAgri	soil_fra_grav_mean	ele_mt_min	perm_low_glob	perm_verylow_cont	-
DEBY0711	p_seasonality	lulc_2006_grass	root_dep_min	ele_mt_max	perm_low_glob	perm_low_cont	-
DEBY0724	p_mean	lulc_2006_urban	soil_oc_mean	area_estreams	perm_high_glob	perm_high_cont	-
DEBY0697	p_seasonality	lulc_2006_NonIrrAgri	bedrk_dep	steep_area_fra	perm_low_glob	perm_low_cont	-
DEBU1953	pet_mean	lulc_2006_urban	bedrk_dep	area_estreams	perm_verylow_glob	perm_verylow_cont	-
NL000008	lp_time	ndvi_mean	bedrk_dep	ele_mt_min	perm_verylow_glob	perm_high_cont	-
CH000026	hp_dur	lai_mean	soil_fra_silt_mean	area_estreams	perm_low_glob	perm_low_cont	-
FR002679	hp_freq	lulc_2006_NonIrrAgri	soil_fra_silt_mean	ele_mt_max	perm_low_glob	perm_high_cont	-
FR004615	p_mean	lulc_2006_Agric	soil_fra_silt_mean	ele_mt_min	perm_low_glob	perm_low_cont	-
NL000016	lp_freq	lulc_2006_Agric	root_dep_mean	strm_dens	perm_high_glob	perm_high_cont	-
BEVL0155	lp_time	lulc_2006_NonIrrAgri	soil_tawc_mean	ele_mt_min	perm_high_glob	perm_medium_cont	-
FR000408	aridity	lai_mean	bedrk_dep	ele_mt_mean	perm_high_glob	perm_low_cont	-
FR000373	p_mean	lai_mean	bedrk_dep	ele_mt_min	perm_high_glob	perm_high_cont	-
FR000345	frac_snow	lulc_2006_Agric	soil_oc_mean	ele_mt_min	perm_high_glob	perm_high_cont	-
FR001071	sno_cov_mean	lulc_2006_grass	soil_oc_mean	ele_mt_max	perm_low_glob	perm_verylow_cont	-
FR003922	hp_time	ndvi_mean	soil_tawc_mean	ele_mt_min	perm_medium_glob	perm_medium_cont	-
FR003986	p_mean	lulc_2006_Agric	soil_bd_mean	steep_area_fra	perm_medium_glob	perm_high_cont	-
FR002118	hp_freq	lulc_2006_urban	soil_fra_silt_mean	ele_mt_max	perm_medium_glob	perm_high_cont	-
FR001952	lp_freq	lulc_2006_NonIrrAgri	soil_fra_sand_mean	area_estreams	perm_low_glob	perm_low_cont	-
FR002029	hp_freq	lulc_2006_agriculture	root_dep_mean	elon_ratio	perm_verylow_glob	perm_medium_cont	-

FR001604	lp_freq	lulc_2006_grass	root_dep_max	ele_mt_max	perm_verylow_glob	perm_medium_cont	-
FR004221	lp_dur	lulc_2006_urban	soil_tawc_mean	strm_dens	perm_medium_glob	perm_low_cont	-
ES001171	sno_cov_mean	lulc_2006_grass	soil_bd_mean	ele_mt_mean	perm_medium_glob	perm_medium_cont	-
ES001010	sno_cov_mean	lulc_2006_grass	soil_fra_grav_mean	area_estreams	perm_verylow_glob	perm_verylow_cont	-
PL000536	sno_cov_mean	ndvi_mean	root_dep_mean	flat_area_fra	perm_verylow_glob	perm_high_cont	-
HR000278	lp_dur	lulc_2006_agriculture	root_dep_min	ele_mt_max	perm_medium_glob	perm_low_cont	-
CZ000236	lp_freq	lulc_2006_grass	root_dep_min	ele_mt_max	perm_medium_glob	perm_medium_cont	-
DEST1707	lp_time	ndvi_mean	bedrk_dep	ele_mt_min	perm_high_glob	perm_low_cont	-
DEBE0155	pet_mean	lulc_2006_grass	soil_oc_mean	ele_mt_min	perm_high_glob	perm_high_cont	-
FR002758	sno_cov_mean	ndvi_mean	soil_oc_mean	slp_dg_mean	perm_medium_glob	perm_verylow_cont	-
FR002462	frac_snow	lai_mean	soil_fra_silt_mean	ele_mt_max	perm_verylow_glob	perm_low_cont	-
FR001394	p_seasonality	lulc_2006_Agric	soil_fra_clay_mean	elon_ratio	perm_high_glob	perm_verylow_cont	-
FR000867	aridity	lai_mean	soil_fra_silt_mean	slp_dg_mean	perm_verylow_glob	perm_low_cont	-
FR004308	hp_time	lulc_2006_forest	soil_fra_silt_mean	steep_area_fra	perm_low_glob	perm_low_cont	-
DEBU1959	lp_time	lulc_2006_agriculture	soil_fra_sand_mean	steep_area_fra	perm_high_glob	perm_high_cont	perm_high_regi

Table S5: Attribute with the highest correlation per group for Q mean.

Basin id	Climate	Land use	Soils	Topography	Global geo.	Continental geo.	Regional geo.
ES000801	p_seasonality	lulc_2006_agriculture	bedrk_dep	area_estreams	perm_verylow_glob	perm_high_cont	-
ES000665	p_mean	ndvi_mean	bedrk_dep	slp_dg_mean	perm_low_glob	perm_high_cont	-
ES001243	pet_mean	lulc_2006_agriculture	soil_oc_mean	steep_area_fra	perm_verylow_glob	perm_high_cont	-
ES000196	sno_cov_mean	lulc_2006_NonIrrAgri	soil_fra_clay_mean	slp_dg_mean	perm_high_glob	perm_medium_cont	-
ES000194	aridity	lulc_2006_agriculture	bedrk_dep	flat_area_fra	perm_verylow_glob	perm_high_cont	-
ES001080	p_seasonality	lulc_2006_grass	bedrk_dep	flat_area_fra	perm_low_glob	perm_verylow_cont	-
ES000316	aridity	lai_mean	bedrk_dep	steep_area_fra	perm_medium_glob	perm_high_cont	-
ES000339	p_seasonality	lulc_2006_grass	soil_fra_sand_mean	ele_mt_mean	perm_high_glob	perm_verylow_cont	-
ES000331	pet_mean	lulc_2006_agriculture	bedrk_dep	ele_mt_mean	perm_low_glob	perm_high_cont	-
GB000472	aridity	lulc_2006_NonIrrAgri	root_dep_min	ele_mt_mean	perm_verylow_glob	perm_medium_cont	-
GB000271	lp_dur	lulc_2006_NonIrrAgri	soil_tawc_mean	strm_dens	perm_high_glob	perm_high_cont	-
GB000153	p_mean	lulc_2006_NonIrrAgri	root_dep_mean	ele_mt_mean	perm_medium_glob	perm_high_cont	-
ITTO0361	pet_mean	lulc_2006_agriculture	soil_bd_mean	steep_area_fra	perm_verylow_glob	perm_verylow_cont	-
ITVE0408	frac_snow	ndvi_mean	root_dep_mean	slp_dg_mean	perm_low_glob	perm_high_cont	-
ITPI0183	hp_freq	lulc_2006_agriculture	soil_fra_clay_mean	steep_area_fra	perm_verylow_glob	perm_low_cont	-
F1000557	hp_freq	lulc_2006_urban	root_dep_min	area_estreams	perm_verylow_glob	perm_low_cont	-
F1000226	aridity	lulc_2006_grass	soil_fra_silt_mean	ele_mt_mean	perm_high_glob	perm_low_cont	-
F1000137	aridity	lulc_2006_grass	soil_fra_silt_mean	ele_mt_mean	perm_low_glob	perm_low_cont	-
PL000936	pet_mean	lulc_2006_Agric	soil_tawc_mean	slp_dg_mean	perm_high_glob	perm_verylow_cont	-
PL000868	frac_snow	lulc_2006_Agric	soil_fra_grav_mean	ele_mt_min	perm_high_glob	perm_high_cont	-
PL000794	pet_mean	lai_mean	root_dep_mean	ele_mt_mean	perm_high_glob	perm_medium_cont	-

HR000048	aridity	lulc_2006_agriculture	soil_tawc_mean	slp_dg_mean	perm_verylow_glob	perm_high_cont	-
HUGR0037	p_mean	lulc_2006_NonIrrAgri	bedrk_dep	ele_mt_mean	perm_high_glob	perm_high_cont	-
AT000393	aridity	lulc_2006_NonIrrAgri	soil_fra_grav_mean	ele_mt_mean	perm_verylow_glob	perm_verylow_cont	-
PL000253	frac_snow	lulc_2006_NonIrrAgri	bedrk_dep	ele_mt_mean	perm_high_glob	perm_medium_cont	-
PL000349	p_seasonality	lulc_2006_NonIrrAgri	bedrk_dep	slp_dg_mean	perm_high_glob	perm_low_cont	-
PL000015	aridity	lulc_2006_NonIrrAgri	bedrk_dep	ele_mt_mean	perm_medium_glob	perm_verylow_cont	-
CZ000097	sno_cov_mean	lulc_2006_NonIrrAgri	soil_fra_grav_mean	slp_dg_mean	perm_medium_glob	perm_medium_cont	-
DEST1711	aridity	lulc_2006_NonIrrAgri	soil_fra_grav_mean	ele_mt_mean	perm_low_glob	perm_verylow_cont	-
DEBY0711	aridity	lulc_2006_NonIrrAgri	soil_fra_grav_mean	steep_area_fra	perm_low_glob	perm_high_cont	-
DEBY0724	frac_snow	lulc_2006_grass	root_dep_min	ele_mt_max	perm_medium_glob	perm_medium_cont	-
DEBY0697	p_mean	lulc_2006_NonIrrAgri	soil_fra_clay_mean	ele_mt_mean	perm_medium_glob	perm_verylow_cont	-
DEBU1953	aridity	lulc_2006_NonIrrAgri	soil_oc_mean	slp_dg_mean	perm_medium_glob	perm_verylow_cont	-
NL000008	p_mean	lulc_2006_NonIrrAgri	soil_tawc_mean	ele_mt_mean	perm_medium_glob	perm_verylow_cont	-
CH000026	p_mean	lulc_2006_NonIrrAgri	root_dep_mean	slp_dg_mean	perm_high_glob	perm_medium_cont	-
FR002679	lp_time	lulc_2006_agriculture	root_dep_mean	flat_area_fra	perm_high_glob	perm_medium_cont	-
FR004615	aridity	lulc_2006_NonIrrAgri	soil_tawc_mean	ele_mt_max	perm_verylow_glob	perm_verylow_cont	-
NL000016	lp_dur	lulc_2006_agriculture	soil_fra_sand_mean	ele_mt_mean	perm_high_glob	perm_low_cont	-
BEVL0155	aridity	ndvi_mean	root_dep_min	area_estreams	perm_high_glob	perm_high_cont	-
FR000408	aridity	lulc_2006_Agric	soil_fra_clay_mean	ele_mt_mean	perm_high_glob	perm_verylow_cont	-
FR000373	p_seasonality	lulc_2006_Agric	root_dep_mean	flat_area_fra	perm_high_glob	perm_verylow_cont	-
FR000345	lp_freq	lai_mean	root_dep_mean	slp_dg_mean	perm_verylow_glob	perm_verylow_cont	-
FR001071	aridity	lulc_2006_NonIrrAgri	soil_fra_clay_mean	flat_area_fra	perm_verylow_glob	perm_verylow_cont	-
FR003922	pet_mean	ndvi_mean	soil_tawc_mean	flat_area_fra	perm_medium_glob	perm_verylow_cont	-
FR003986	aridity	lai_mean	soil_oc_mean	flat_area_fra	perm_medium_glob	perm_medium_cont	-
FR002118	frac_snow	ndvi_mean	soil_fra_clay_mean	ele_mt_mean	perm_medium_glob	perm_medium_cont	-
FR001952	p_mean	lulc_2006_grass	soil_oc_mean	ele_mt_mean	perm_verylow_glob	perm_verylow_cont	-
FR002029	aridity	lulc_2006_grass	bedrk_dep	ele_mt_mean	perm_low_glob	perm_low_cont	-
FR001604	aridity	lulc_2006_agriculture	soil_fra_sand_mean	steep_area_fra	perm_low_glob	perm_verylow_cont	-
FR004221	aridity	lulc_2006_NonIrrAgri	bedrk_dep	ele_mt_mean	perm_verylow_glob	perm_high_cont	-
ES001171	p_mean	lulc_2006_urban	soil_fra_clay_mean	ele_mt_mean	perm_high_glob	perm_medium_cont	-
ES001010	sno_cov_mean	lai_mean	soil_oc_mean	ele_mt_mean	perm_high_glob	perm_medium_cont	-
PL000536	aridity	lai_mean	root_dep_mean	steep_area_fra	perm_low_glob	perm_high_cont	-
HR000278	aridity	lulc_2006_agriculture	root_dep_min	ele_mt_mean	perm_medium_glob	perm_verylow_cont	-
CZ000236	sno_cov_mean	lulc_2006_NonIrrAgri	soil_oc_mean	ele_mt_mean	perm_high_glob	perm_high_cont	-
DEST1707	pet_mean	lulc_2006_forest	soil_oc_mean	ele_mt_mean	perm_medium_glob	perm_high_cont	-
DEBE0155	p_mean	lulc_2006_Agric	bedrk_dep	ele_mt_mean	perm_verylow_glob	perm_verylow_cont	-
FR002758	pet_mean	lulc_2006_Agric	bedrk_dep	ele_mt_min	perm_medium_glob	perm_high_cont	-
FR002462	p_mean	lulc_2006_agriculture	bedrk_dep	ele_mt_mean	perm_high_glob	perm_low_cont	-
FR001394	aridity	ndvi_mean	soil_oc_mean	slp_dg_mean	perm_verylow_glob	perm_verylow_cont	-

FR000867	p mean	ndvi mean	bedrk dep	flat area fra	perm_verylow_glob	perm_low cont	-
FR004308	p mean	lulc_2006_grass	soil_fra_clay_mean	ele mt mean	perm_medium_glob	perm_medium_cont	-
DEBU1959	aridity	lai mean	soil_fra_sand_mean	ele mt mean	perm_medium_glob	perm_medium_cont	perm_low regi

Table S6: Attribute with the highest correlation per group for Q5.

Basin id	Climate	Land use	Soils	Topography	Global geo.	Continental geo.	Regional geo.
ES000801	pet mean	lulc_2006_forest	bedrk dep	ele mt mean	perm_medium_glob	perm_verylow_cont	-
ES000665	lp dur	lulc_2006_forest	soil_fra_grav_mean	ele mt max	perm_low_glob	perm_high_cont	-
ES001243	hp dur	lulc_2006_forest	soil_fra_silt_mean	area estreams	perm_medium_glob	perm_medium_cont	-
ES000196	sno cov_mean	lulc_2006_grass	root_dep_min	steep_area_fra	perm_low_glob	perm_verylow_cont	-
ES000194	lp freq	lai mean	bedrk dep	slp dg mean	perm_high_glob	perm_high_cont	-
ES001080	p mean	lulc_2006_urban	soil_fra_grav_mean	steep_area_fra	perm_verylow_glob	perm_high_cont	-
ES000316	hp freq	lulc_2006_forest	root_dep_max	steep_area_fra	perm_low_glob	perm_verylow_cont	-
ES000339	hp freq	lulc_2006_grass	bedrk dep	steep_area_fra	perm_high_glob	perm_high_cont	-
ES000331	hp freq	lulc_2006_NoIrrigAgri	soil_bd_mean	ele mt mean	perm_low_glob	perm_verylow_cont	-
GB000472	lp dur	lulc_2006_agriculture	soil_fra_clay_mean	ele mt mean	perm_high_glob	perm_medium_cont	-
GB000271	sno cov_mean	lulc_2006_NoIrrigAgri	soil_oc_mean	ele mt min	perm_high_glob	perm_medium_cont	-
GB000153	p mean	lulc_2006_NoIrrigAgri	soil_fra_grav_mean	ele mt mean	perm_verylow_glob	perm_verylow_cont	-
ITTO0361	hp freq	lai mean	soil_oc_mean	ele mt max	perm_medium_glob	perm_medium_cont	-
ITVE0408	frac snow	lulc_2006_forest	soil_bd_mean	ele mt mean	perm_verylow_glob	perm_verylow_cont	-
ITPI0183	hp freq	lulc_2006_grass	root_dep_min	ele mt max	perm_low_glob	perm_verylow_cont	-
FI000557	lp dur	lulc_2006_urban	bedrk dep	area estreams	perm_verylow_glob	perm_low_cont	-
FI000226	hp freq	lulc_2006_forest	root_dep_mean	area estreams	perm_high_glob	perm_low_cont	-
FI000137	hp freq	lulc_2006_agriculture	soil_fra_grav_mean	ele mt max	perm_low_glob	perm_low_cont	-
PL000936	pet mean	lulc_2006_Agric	soil_tawc_mean	slp dg mean	perm_high_glob	perm_verylow_cont	-
PL000868	lp freq	lulc_2006_Agric	soil_oc_mean	ele mt mean	perm_high_glob	perm_high_cont	-
PL000794	hp freq	lulc_2006_agriculture	soil_fra_grav_mean	ele mt max	perm_high_glob	perm_medium_cont	-
HR000048	aridity	lulc_2006_Agric	soil_fra_grav_mean	slp dg mean	perm_verylow_glob	perm_high_cont	-
HUGR0037	sno cov_mean	lulc_2006_NoIrrigAgri	bedrk dep	ele mt mean	perm_high_glob	perm_high_cont	-
AT000393	hp freq	lulc_2006_Agric	soil_fra_clay_mean	ele mt max	perm_low_glob	perm_low_cont	-
PL000253	frac snow	lulc_2006_grass	bedrk dep	ele mt mean	perm_high_glob	perm_medium_cont	-
PL000349	p seasonality	lulc_2006_agriculture	bedrk dep	slp dg mean	perm_high_glob	perm_verylow_cont	-
PL000015	lp freq	lulc_2006_agriculture	bedrk dep	ele mt mean	perm_medium_glob	perm_high_cont	-
CZ000097	lp dur	lulc_2006_NoIrrigAgri	root_dep_min	slp dg mean	perm_medium_glob	perm_high_cont	-

DEST1711	lp_dur	lulc_2006_Agric	root_dep_min	area_estreams	perm_low_glob	perm_verylow_cont	-
DEBY0711	lp_freq	lulc_2006_forest	soil_fra_grav_mean	ele_mt_max	perm_low_glob	perm_low_cont	-
DEBY0724	sno_cov_mean	lulc_2006_grass	root_dep_min	ele_mt_max	perm_medium_glob	perm_medium_cont	-
DEBY0697	lp_dur	lulc_2006_grass	soil_fra_clay_mean	ele_mt_max	perm_high_glob	perm_verylow_cont	-
DEBU1953	hp_freq	lulc_2006_NoIrrAgri	soil_oc_mean	ele_mt_max	perm_medium_glob	perm_low_cont	-
NL000008	hp_time	lulc_2006_urban	soil_fra_grav_mean	ele_mt_min	perm_verylow_glob	perm_low_cont	-
CH000026	hp_freq	lulc_2006_grass	root_dep_min	ele_mt_max	perm_low_glob	perm_low_cont	-
FR002679	lp_time	lulc_2006_urban	root_dep_min	area_estreams	perm_high_glob	perm_high_cont	-
FR004615	lp_freq	lulc_2006_NoIrrAgri	soil_tawc_mean	ele_mt_max	perm_verylow_glob	perm_verylow_cont	-
NL000016	lp_freq	lulc_2006_agriculture	root_dep_mean	strm_dens	perm_high_glob	perm_high_cont	-
BEVL0155	lp_time	lulc_2006_NoIrrAgri	soil_fra_clay_mean	ele_mt_min	perm_high_glob	perm_medium_cont	-
FR000408	pet_mean	lulc_2006_urban	bedrk_dep	ele_mt_min	perm_high_glob	perm_low_cont	-
FR000373	sno_cov_mean	lulc_2006_urban	bedrk_dep	ele_mt_min	perm_high_glob	perm_verylow_cont	-
FR000345	lp_freq	lulc_2006_agriculture	root_dep_min	steep_area_fra	perm_medium_glob	perm_medium_cont	-
FR001071	pet_mean	lulc_2006_grass	soil_oc_mean	ele_mt_max	perm_low_glob	perm_verylow_cont	-
FR003922	p_seasonality	lulc_2006_agriculture	root_dep_mean	ele_mt_min	perm_high_glob	perm_medium_cont	-
FR003986	lp_freq	lulc_2006_agriculture	soil_oc_mean	steep_area_fra	perm_medium_glob	perm_verylow_cont	-
FR002118	hp_dur	lulc_2006_grass	soil_tawc_mean	area_estreams	perm_low_glob	perm_low_cont	-
FR001952	lp_freq	lai_mean	soil_tawc_mean	ele_mt_max	perm_low_glob	perm_verylow_cont	-
FR002029	hp_freq	lulc_2006_agriculture	root_dep_mean	elon_ratio	perm_low_glob	perm_medium_cont	-
FR001604	lp_freq	lulc_2006_grass	root_dep_max	steep_area_fra	perm_verylow_glob	perm_medium_cont	-
FR004221	hp_time	lulc_2006_grass	soil_fra_grav_mean	area_estreams	perm_medium_glob	perm_medium_cont	-
ES001171	lp_dur	lai_mean	soil_tawc_mean	steep_area_fra	perm_medium_glob	perm_medium_cont	-
ES001010	sno_cov_mean	ndvi_mean	soil_fra_sand_mean	slp_dg_mean	perm_medium_glob	perm_low_cont	-
PL000536	lp_dur	lulc_2006_agriculture	soil_oc_mean	ele_mt_max	perm_low_glob	perm_low_cont	-
HR000278	lp_dur	lulc_2006_agriculture	root_dep_min	steep_area_fra	perm_verylow_glob	perm_verylow_cont	-
CZ000236	lp_freq	lulc_2006_NoIrrAgri	soil_oc_mean	ele_mt_max	perm_low_glob	perm_low_cont	-
DEST1707	lp_freq	lulc_2006_agriculture	root_dep_mean	steep_area_fra	perm_medium_glob	perm_verylow_cont	-
DEBE0155	p_mean	lulc_2006_Agric	bedrk_dep	steep_area_fra	perm_verylow_glob	perm_verylow_cont	-
FR002758	pet_mean	ndvi_mean	bedrk_dep	ele_mt_mean	perm_medium_glob	perm_verylow_cont	-
FR002462	frac_snow	ndvi_mean	root_dep_min	ele_mt_max	perm_verylow_glob	perm_low_cont	-
FR001394	lp_dur	lulc_2006_urban	bedrk_dep	flat_area_fra	perm_high_glob	perm_low_cont	-
FR000867	aridity	lai_mean	bedrk_dep	slp_dg_mean	perm_verylow_glob	perm_verylow_cont	-
FR004308	p_mean	lai_mean	soil_fra_clay_mean	ele_mt_max	perm_medium_glob	perm_medium_cont	-

DEBU1959	p_mean	lulc_2006_agri culture	soil_tawc_mea n	steep_area_fra	perm_verylow glob	perm_high_co nt	perm_high_reg i
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Table S7: Attribute with the highest correlation per group for Q95.

Basin id	Climate	Land use	Soils	Topography	Global geo.	Continental geo.	Regional geo.
ES000801	p_seasonality	lulc_2006_agri culture	bedrk_dep	area_estreams	perm_verylow glob	perm_high_co nt	-
ES000665	p_mean	ndvi_mean	bedrk_dep	flat_area_fra	perm_high_glo b	perm_high_co nt	-
ES001243	pet_mean	lulc_2006_agri culture	soil_oc_mean	steep_area_fra	perm_verylow glob	perm_high_co nt	-
ES000196	frac_snow	lulc_2006_No nIrrAgri	soil_fra_clay_ mean	ele_mt_mean	perm_high_glo b	perm_medium cont	-
ES000194	aridity	lulc_2006_agri culture	bedrk_dep	flat_area_fra	perm_verylow glob	perm_high_co nt	-
ES001080	p_seasonality	lulc_2006_gras s	bedrk_dep	flat_area_fra	perm_high_glo b	perm_verylow cont	-
ES000316	aridity	lai_mean	bedrk_dep	steep_area_fra	perm_medium glob	perm_high_co nt	-
ES000339	p_seasonality	lulc_2006_gras s	soil_fra_sand_ mean	ele_mt_mean	perm_high_glo b	perm_verylow cont	-
ES000331	pet_mean	lulc_2006_agri culture	bedrk_dep	ele_mt_mean	perm_low_glo b	perm_high_co nt	-
GB000472	p_seasonality	lulc_2006_No nIrrAgri	root_dep_min	ele_mt_mean	perm_verylow glob	perm_verylow cont	-
GB000271	lp_dur	lulc_2006_Agr ic	soil_tawc_mea n	strm_dens	perm_high_glo b	perm_high_co nt	-
GB000153	p_seasonality	lulc_2006_No nIrrAgri	soil_oc_mean	ele_mt_mean	perm_medium glob	perm_high_co nt	-
ITTO0361	pet_mean	lulc_2006_Agr ic	soil_bd_mean	steep_area_fra	perm_verylow glob	perm_verylow cont	-
ITVE0408	sno_cov_mean	lulc_2006_urb an	soil_fra_silt_m ean	steep_area_fra	perm_low_glo b	perm_high_co nt	-
ITPI0183	p_mean	lulc_2006_agri culture	soil_fra_clay_ mean	elon_ratio	perm_verylow glob	perm_low_con t	-
FI000557	hp_freq	lulc_2006_urb an	root_dep_min	area_estreams	perm_verylow glob	perm_low_con t	-
FI000226	hp_freq	lulc_2006_fore st	root_dep_mea n	ele_mt_min	perm_high_glo b	perm_low_con t	-
FI000137	hp_dur	lulc_2006_urb an	root_dep_mea n	area_estreams	perm_low_glo b	perm_low_con t	-
PL000936	aridity	lulc_2006_fore st	root_dep_min	area_estreams	perm_high_glo b	perm_verylow cont	-
PL000868	sno_cov_mean	lulc_2006_No nIrrAgri	soil_fra_silt_m ean	ele_mt_max	perm_high_glo b	perm_high_co nt	-
PL000794	aridity	lai_mean	root_dep_mea n	ele_mt_mean	perm_high_glo b	perm_medium cont	-
HR000048	aridity	lulc_2006_agri culture	bedrk_dep	slp_dg_mean	perm_verylow glob	perm_high_co nt	-
HUGR0037	p_mean	lulc_2006_No nIrrAgri	bedrk_dep	ele_mt_mean	perm_high_glo b	perm_verylow cont	-
AT000393	aridity	lulc_2006_No nIrrAgri	soil_fra_grav_ mean	ele_mt_mean	perm_medium glob	perm_verylow cont	-
PL000253	sno_cov_mean	lulc_2006_No nIrrAgri	bedrk_dep	ele_mt_min	perm_high_glo b	perm_verylow cont	-
PL000349	pet_mean	lulc_2006_No nIrrAgri	bedrk_dep	ele_mt_mean	perm_high_glo b	perm_low_con t	-
PL000015	aridity	lulc_2006_No nIrrAgri	bedrk_dep	ele_mt_mean	perm_medium glob	perm_verylow cont	-
CZ000097	sno_cov_mean	lulc_2006_No nIrrAgri	soil_fra_grav_ mean	ele_mt_mean	perm_medium glob	perm_medium cont	-
DEST1711	aridity	lulc_2006_No nIrrAgri	soil_fra_grav_ mean	ele_mt_mean	perm_low_glo b	perm_verylow cont	-
DEBY0711	aridity	lulc_2006_No nIrrAgri	bedrk_dep	steep_area_fra	perm_verylow glob	perm_high_co nt	-

DEBY0724	frac_snow	lulc_2006_No nIrriAgri	bedrk_dep	slp_dg_mean	perm_high_glo b	perm_medium cont	-
DEBY0697	p_mean	lulc_2006_No nIrriAgri	soil_bd_mean	ele_mt_mean	perm_low_glo b	perm_low_con t	-
DEBU1953	aridity	lulc_2006_No nIrriAgri	bedrk_dep	slp_dg_mean	perm_medium glob	perm_verylow cont	-
NL000008	p_mean	lulc_2006_No nIrriAgri	soil_fra_grav_ mean	ele_mt_mean	perm_high_glo b	perm_verylow cont	-
CH000026	p_mean	lulc_2006_No nIrriAgri	bedrk_dep	flat_area_fra	perm_high_glo b	perm_medium cont	-
FR002679	lp_freq	lulc_2006_urb an	root_dep_min	ele_mt_min	perm_verylow glob	perm_high_co nt	-
FR004615	p_mean	lulc_2006_No nIrriAgri	soil_tawc_mea n	steep_area_fra	perm_verylow glob	perm_verylow cont	-
NL000016	lp_dur	ndvi_mean	bedrk_dep	ele_mt_mean	perm_high_glo b	perm_low_con t	-
BEVL0155	pet_mean	ndvi_mean	soil_tawc_mea n	area_estreams	perm_high_glo b	perm_verylow cont	-
FR000408	aridity	lulc_2006_Agr ic	bedrk_dep	ele_mt_mean	perm_high_glo b	perm_verylow cont	-
FR000373	p_mean	lai_mean	root_dep_mea n	ele_mt_mean	perm_high_glo b	perm_medium cont	-
FR000345	aridity	lai_mean	root_dep_mea n	ele_mt_mean	perm_high_glo b	perm_high_co nt	-
FR001071	p_mean	lulc_2006_No nIrriAgri	bedrk_dep	flat_area_fra	perm_verylow glob	perm_high_co nt	-
FR003922	frac_snow	ndvi_mean	soil_tawc_mea n	flat_area_fra	perm_medium glob	perm_verylow cont	-
FR003986	aridity	lai_mean	soil_oc_mean	flat_area_fra	perm_medium glob	perm_medium cont	-
FR002118	frac_snow	ndvi_mean	soil_fra_clay_ mean	ele_mt_mean	perm_medium glob	perm_medium cont	-
FR001952	p_mean	lulc_2006_gras s	soil_oc_mean	ele_mt_mean	perm_verylow glob	perm_verylow cont	-
FR002029	aridity	ndvi_mean	bedrk_dep	ele_mt_mean	perm_low_glo b	perm_high_co nt	-
FR001604	aridity	lulc_2006_agri culture	bedrk_dep	steep_area_fra	perm_low_glo b	perm_verylow cont	-
FR004221	pet_mean	lulc_2006_No nIrriAgri	bedrk_dep	flat_area_fra	perm_medium glob	perm_high_co nt	-
ES001171	p_mean	lulc_2006_urb an	soil_fra_clay_ mean	ele_mt_mean	perm_high_glo b	perm_medium cont	-
ES001010	pet_mean	ndvi_mean	soil_oc_mean	slp_dg_mean	perm_verylow glob	perm_medium cont	-
PL000536	p_mean	lai_mean	root_dep_mea n	slp_dg_mean	perm_low_glo b	perm_high_co nt	-
HR000278	p_mean	lulc_2006_agri culture	soil_fra_grav_ mean	ele_mt_mean	perm_medium glob	perm_verylow cont	-
CZ000236	sno_cov_mean	lulc_2006_No nIrriAgri	soil_oc_mean	ele_mt_mean	perm_high_glo b	perm_high_co nt	-
DEST1707	pet_mean	lulc_2006_fore st	soil_oc_mean	ele_mt_mean	perm_medium glob	perm_high_co nt	-
DEBE0155	sno_cov_mean	lulc_2006_Agr ic	bedrk_dep	ele_mt_min	perm_verylow glob	perm_verylow cont	-
FR002758	aridity	lulc_2006_Agr ic	bedrk_dep	ele_mt_min	perm_medium glob	perm_high_co nt	-
FR002462	p_mean	lulc_2006_No nIrriAgri	bedrk_dep	ele_mt_min	perm_high_glo b	perm_medium cont	-
FR001394	p_mean	lulc_2006_Agr ic	soil_tawc_mea n	ele_mt_max	perm_verylow glob	perm_verylow cont	-
FR000867	p_mean	ndvi_mean	soil_fra_grav_ mean	flat_area_fra	perm_high_glo b	perm_low_con t	-
FR004308	p_mean	lulc_2006_urb an	soil_tawc_mea n	ele_mt_mean	perm_medium glob	perm_medium cont	-
DEBU1959	lp_freq	lulc_2006_No nIrriAgri	soil_fra_clay_ mean	ele_mt_mean	perm_verylow glob	perm_verylow cont	perm_verylow regi

Table S8: Attribute with the highest correlation per group for HFD.

Basin id	Climate	Land use	Soils	Topography	Global geo.	Continental geo.	Regional geo.
ES000801	hp time	lai mean	soil_fra_clay_mean	ele_mt mean	perm_high_glob	perm_medium_cont	-
ES000665	hp time	lulc_2006_agriculture	root_dep_min	strm_dens	perm_high_glob	perm_high_cont	-
ES001243	hp time	lulc_2006_urban	soil_fra_silt_mean	ele_mt mean	perm_high_glob	perm_high_cont	-
ES000196	sno_cov mean	lulc_2006_grass	root_dep_min	steep_area_fra	perm_medium_glob	perm_verylow_cont	-
ES000194	lp_freq	ndvi_mean	root_dep_mean	strm_dens	perm_low_glob	perm_medium_cont	-
ES001080	frac_snow	lai mean	soil_fra_sand_mean	ele_mt mean	perm_verylow_glob	perm_low_cont	-
ES000316	frac_snow	lulc_2006_grass	soil_tawc_mean	ele_mt mean	perm_low_glob	perm_low_cont	-
ES000339	aridity	ndvi_mean	soil_bd_mean	ele_mt mean	perm_medium_glob	perm_verylow_cont	-
ES000331	sno_cov mean	lulc_2006_NoIrrAgri	soil_fra_sand_mean	ele_mt mean	perm_low_glob	perm_verylow_cont	-
GB000472	p_seasonality	lulc_2006_grass	soil_oc_mean	steep_area_fra	perm_verylow_glob	perm_verylow_cont	-
GB000271	hp_freq	lulc_2006_Agric	soil_tawc_mean	flat_area_fra	perm_high_glob	perm_high_cont	-
GB000153	frac_snow	ndvi_mean	soil_oc_mean	steep_area_fra	perm_low_glob	perm_high_cont	-
ITTO0361	lp_freq	lulc_2006_grass	soil_tawc_mean	area_estreams	perm_verylow_glob	perm_medium_cont	-
ITVE0408	sno_cov mean	lulc_2006_urban	soil_fra_silt_mean	strm_dens	perm_low_glob	perm_medium_cont	-
ITPI0183	frac_snow	ndvi_mean	root_dep_mean	ele_mt mean	perm_low_glob	perm_verylow_cont	-
FI000557	hp_dur	lulc_2006_urban	root_dep_min	area_estreams	perm_medium_glob	perm_low_cont	-
FI000226	pet_mean	lai mean	soil_fra_grav_mean	flat_area_fra	perm_high_glob	perm_high_cont	-
FI000137	frac_snow	lulc_2006_NoIrrAgri	soil_oc_mean	strm_dens	perm_verylow_glob	perm_high_cont	-
PL000936	pet_mean	lulc_2006_Agric	root_dep_min	steep_area_fra	perm_high_glob	perm_verylow_cont	-
PL000868	sno_cov mean	lulc_2006_Agric	bedrk_dep	ele_mt_max	perm_high_glob	perm_high_cont	-
PL000794	lp_freq	lai mean	root_dep_min	ele_mt_max	perm_high_glob	perm_medium_cont	-
HR000048	pet_mean	lulc_2006_grass	soil_fra_silt_mean	ele_mt mean	perm_low_glob	perm_low_cont	-
HUGR0037	frac_snow	lulc_2006_NoIrrAgri	bedrk_dep	ele_mt mean	perm_high_glob	perm_verylow_cont	-
AT000393	lp_time	lulc_2006_Agric	root_dep_min	steep_area_fra	perm_medium_glob	perm_medium_cont	-
PL000253	lp_freq	lulc_2006_grass	root_dep_mean	ele_mt_max	perm_high_glob	perm_medium_cont	-
PL000349	sno_cov mean	lulc_2006_urban	soil_fra_clay_mean	ele_mt_max	perm_high_glob	perm_high_cont	-
PL000015	aridity	lai mean	bedrk_dep	ele_mt_max	perm_low_glob	perm_verylow_cont	-
CZ000097	frac_snow	lulc_2006_grass	root_dep_min	ele_mt mean	perm_verylow_glob	perm_verylow_cont	-
DEST1711	p_mean	lulc_2006_NoIrrAgri	soil_fra_grav_mean	ele_mt mean	perm_low_glob	perm_verylow_cont	-
DEBY0711	pet_mean	lulc_2006_grass	bedrk_dep	ele_mt mean	perm_low_glob	perm_low_cont	-
DEBY0724	frac_snow	lulc_2006_grass	root_dep_mean	slp_dg_mean	perm_high_glob	perm_medium_cont	-

DEBY0697	lp_dur	lulc_2006_grass	soil_fra_grav_mean	ele_mt_max	perm_high_glob	perm_high_cont	-
DEBU1953	pet_mean	lulc_2006_NoIrrAgri	bedrk_dep	slp_dg_mean	perm_verylow_glob	perm_verylow_cont	-
NL000008	hp_time	lai_mean	soil_fra_grav_mean	ele_mt_min	perm_low_glob	perm_low_cont	-
CH000026	pet_mean	ndvi_mean	soil_fra_clay_mean	slp_dg_mean	perm_low_glob	perm_low_cont	-
FR002679	sno_cov_mean	lulc_2006_grass	soil_oc_mean	ele_mt_mean	perm_medium_glob	perm_high_cont	-
FR004615	frac_snow	lulc_2006_urban	root_dep_min	ele_mt_mean	perm_medium_glob	perm_high_cont	-
NL000016	lp_dur	ndvi_mean	bedrk_dep	ele_mt_mean	perm_high_glob	perm_verylow_cont	-
BEVL0155	lp_time	lulc_2006_NoIrrAgri	soil_tawc_mean	ele_mt_min	perm_high_glob	perm_medium_cont	-
FR000408	aridity	lai_mean	root_dep_mean	ele_mt_mean	perm_high_glob	perm_low_cont	-
FR000373	aridity	lai_mean	root_dep_mean	ele_mt_mean	perm_high_glob	perm_high_cont	-
FR000345	aridity	lulc_2006_Agric	root_dep_mean	ele_mt_min	perm_high_glob	perm_high_cont	-
FR001071	sno_cov_mean	lulc_2006_Agric	soil_oc_mean	ele_mt_mean	perm_low_glob	perm_medium_cont	-
FR003922	pet_mean	lulc_2006_forest	soil_oc_mean	elon_ratio	perm_medium_glob	perm_low_cont	-
FR003986	sno_cov_mean	lulc_2006_forest	soil_oc_mean	steep_area_fra	perm_medium_glob	perm_verylow_cont	-
FR002118	hp_dur	lulc_2006_urban	root_dep_min	elon_ratio	perm_high_glob	perm_low_cont	-
FR001952	p_mean	lulc_2006_NoIrrAgri	soil_fra_silt_mean	slp_dg_mean	perm_verylow_glob	perm_medium_cont	-
FR002029	sno_cov_mean	lulc_2006_grass	root_dep_mean	steep_area_fra	perm_verylow_glob	perm_verylow_cont	-
FR001604	sno_cov_mean	lulc_2006_grass	root_dep_max	ele_mt_mean	perm_low_glob	perm_verylow_cont	-
FR004221	frac_snow	lulc_2006_urban	bedrk_dep	ele_mt_mean	perm_low_glob	perm_low_cont	-
ES001171	lp_dur	lulc_2006_grass	root_dep_min	ele_mt_max	perm_low_glob	perm_medium_cont	-
ES001010	p_seasonality	lulc_2006_NoIrrAgri	root_dep_min	area_streams	perm_low_glob	perm_verylow_cont	-
PL000536	aridity	lai_mean	root_dep_min	ele_mt_mean	perm_verylow_glob	perm_low_cont	-
HR000278	pet_mean	lulc_2006_Agric	soil_bd_mean	slp_dg_mean	perm_low_glob	perm_verylow_cont	-
CZ000236	p_mean	lai_mean	soil_oc_mean	ele_mt_mean	perm_high_glob	perm_medium_cont	-
DEST1707	lp_freq	lulc_2006_agriculture	soil_oc_mean	steep_area_fra	perm_medium_glob	perm_high_cont	-
DEBE0155	aridity	lulc_2006_grass	root_dep_mean	steep_area_fra	perm_high_glob	perm_verylow_cont	-
FR002758	frac_snow	ndvi_mean	bedrk_dep	slp_dg_mean	perm_medium_glob	perm_verylow_cont	-
FR002462	frac_snow	ndvi_mean	root_dep_min	ele_mt_mean	perm_verylow_glob	perm_low_cont	-
FR001394	p_seasonality	lulc_2006_Agric	soil_fra_clay_mean	elon_ratio	perm_high_glob	perm_verylow_cont	-
FR000867	sno_cov_mean	lai_mean	root_dep_mean	ele_mt_mean	perm_verylow_glob	perm_high_cont	-
FR004308	lp_freq	lulc_2006_forest	soil_fra_sand_mean	flat_area_fra	perm_high_glob	perm_high_cont	-
DEBU1959	lp_time	lulc_2006_agriculture	soil_tawc_mean	steep_area_fra	perm_high_glob	perm_high_cont	perm_high_regi

Table S9: Attribute with the highest correlation per group for FDC slope.

Basin id	Climate	Land use	Soils	Topography	Global geo.	Continental geo.	Regional geo.
ES000801	hp time	lulc_2006_urban	soil_fra_silt_mean	strm dens	perm_medium_glob	perm_medium_cont	-
ES000665	lp dur	lulc_2006_urban	soil_fra_grav_mean	ele mt max	perm_high_glob	perm_high_cont	-
ES001243	p seasonality	lulc_2006_NoIrrAgri	soil_tawc_mean	area_estreams	perm_medium_glob	perm_medium_cont	-
ES000196	frac snow	lulc_2006_urban	root_dep_min	area_estreams	perm_high_glob	perm_verylow_cont	-
ES000194	p seasonality	lulc_2006_grass	soil_fra_sand_mean	area_estreams	perm_verylow_glob	perm_medium_cont	-
ES001080	p mean	lulc_2006_urban	bedrk_dep	ele mt max	perm_high_glob	perm_high_cont	-
ES000316	hp dur	ndvi mean	root_dep_min	ele mt max	perm_low_glob	perm_verylow_cont	-
ES000339	hp dur	lulc_2006_urban	soil_tawc_mean	ele mt max	perm_low_glob	perm_medium_cont	-
ES000331	p mean	ndvi mean	root_dep_max	area_estreams	perm_medium_glob	perm_high_cont	-
GB000472	p seasonality	lulc_2006_Agric	soil_bd_mean	steep area fra	perm_high_glob	perm_high_cont	-
GB000271	pet mean	lulc_2006_agriculture	soil_fra_sand_mean	ele mt min	perm_high_glob	perm_medium_cont	-
GB000153	hp time	lulc_2006_agriculture	soil_fra_sand_mean	steep area fra	perm_low_glob	perm_verylow_cont	-
ITTO0361	p mean	lulc_2006_grass	soil_oc_mean	elon ratio	perm_high_glob	perm_verylow_cont	-
ITVE0408	hp dur	lulc_2006_NoIrrAgri	soil_fra_sand_mean	strm dens	perm_medium_glob	perm_high_cont	-
ITPI0183	p seasonality	lulc_2006_urban	root_dep_min	ele mt max	perm_verylow_glob	perm_high_cont	-
F1000557	hp freq	lulc_2006_urban	root_dep_mean	area_estreams	perm_verylow_glob	perm_low_cont	-
F1000226	hp freq	lulc_2006_forest	soil_fra_silt_mean	area_estreams	perm_high_glob	perm_low_cont	-
F1000137	hp freq	lulc_2006_urban	root_dep_mean	steep area fra	perm_low_glob	perm_low_cont	-
PL000936	pet mean	lulc_2006_agriculture	soil_fra_clay_mean	slp dg mean	perm_high_glob	perm_verylow_cont	-
PL000868	aridity	lulc_2006_Agric	soil_oc_mean	slp dg mean	perm_high_glob	perm_high_cont	-
PL000794	aridity	lai mean	bedrk_dep	flat area fra	perm_high_glob	perm_medium_cont	-
HR000048	p seasonality	lulc_2006_forest	soil_fra_grav_mean	strm dens	perm_medium_glob	perm_verylow_cont	-
HUGR0037	pet mean	ndvi mean	soil_fra_clay_mean	ele mt mean	perm_high_glob	perm_low_cont	-
AT000393	p mean	ndvi mean	root_dep_min	area_estreams	perm_medium_glob	perm_low_cont	-
PL000253	frac snow	lulc_2006_grass	bedrk_dep	ele mt max	perm_high_glob	perm_medium_cont	-
PL000349	p seasonality	ndvi mean	soil_fra_silt_mean	strm dens	perm_high_glob	perm_high_cont	-
PL000015	pet mean	lulc_2006_urban	soil_fra_grav_mean	steep area fra	perm_verylow_glob	perm_verylow_cont	-
CZ000097	hp freq	lulc_2006_grass	root_dep_min	steep area fra	perm_high_glob	perm_high_cont	-
DEST1711	sno cov mean	lulc_2006_NoIrrAgri	bedrk_dep	ele mt min	perm_verylow_glob	perm_verylow_cont	-
DEBY0711	sno cov mean	lulc_2006_grass	bedrk_dep	ele mt mean	perm_low_glob	perm_low_cont	-
DEBY0724	frac snow	lulc_2006_NoIrrAgri	bedrk_dep	flat area fra	perm_high_glob	perm_high_cont	-

DEBY0697	p_seasonality	lulc_2006_forest	soil_fra_sand_mean	steep_area_fra	perm_high_glob	perm_high_cont	-
DEBU1953	pet_mean	lulc_2006_forest	bedrk_dep	slp_dg_mean	perm_medium_glob	perm_verylow_cont	-
NL000008	hp_time	lulc_2006_urban	soil_fra_grav_mean	ele_mt_min	perm_low_glob	perm_low_cont	-
CH000026	p_mean	lulc_2006_NoIrrig	root_dep_max	ele_mt_min	perm_high_glob	perm_verylow_cont	-
FR002679	lp_freq	lulc_2006_urban	root_dep_min	area_estreams	perm_low_glob	perm_high_cont	-
FR004615	hp_dur	lulc_2006_urban	soil_fra_silt_mean	ele_mt_min	perm_verylow_glob	perm_verylow_cont	-
NL000016	lp_dur	ndvi_mean	root_dep_mean	ele_mt_mean	perm_high_glob	perm_high_cont	-
BEVL0155	pet_mean	lulc_2006_Agric	soil_tawc_mean	elon_ratio	perm_high_glob	perm_medium_cont	-
FR000408	p_seasonality	lulc_2006_urban	bedrk_dep	ele_mt_mean	perm_high_glob	perm_low_cont	-
FR000373	p_mean	lai_mean	bedrk_dep	ele_mt_min	perm_high_glob	perm_medium_cont	-
FR000345	frac_snow	lulc_2006_Agric	root_dep_mean	ele_mt_min	perm_high_glob	perm_high_cont	-
FR001071	sno_cov_mean	lulc_2006_grass	soil_oc_mean	ele_mt_max	perm_low_glob	perm_medium_cont	-
FR003922	p_seasonality	lulc_2006_Agric	root_dep_mean	ele_mt_min	perm_verylow_glob	perm_verylow_cont	-
FR003986	lp_freq	lulc_2006_agriculture	soil_bd_mean	steep_area_fra	perm_low_glob	perm_high_cont	-
FR002118	hp_dur	lulc_2006_urban	bedrk_dep	area_estreams	perm_high_glob	perm_high_cont	-
FR001952	lp_freq	ndvi_mean	soil_fra_sand_mean	elon_ratio	perm_low_glob	perm_low_cont	-
FR002029	hp_freq	lulc_2006_agriculture	soil_tawc_mean	strm_dens	perm_verylow_glob	perm_medium_cont	-
FR001604	lp_freq	lulc_2006_grass	root_dep_max	ele_mt_max	perm_medium_glob	perm_medium_cont	-
FR004221	hp_time	lulc_2006_grass	soil_fra_clay_mean	area_estreams	perm_medium_glob	perm_medium_cont	-
ES001171	sno_cov_mean	lulc_2006_grass	soil_bd_mean	ele_mt_max	perm_high_glob	perm_verylow_cont	-
ES001010	sno_cov_mean	lulc_2006_NoIrrig	soil_fra_clay_mean	elon_ratio	perm_verylow_glob	perm_low_cont	-
PL000536	sno_cov_mean	lai_mean	root_dep_mean	flat_area_fra	perm_low_glob	perm_high_cont	-
HR000278	pet_mean	lulc_2006_forest	root_dep_min	steep_area_fra	perm_high_glob	perm_low_cont	-
CZ000236	hp_freq	lulc_2006_grass	root_dep_min	steep_area_fra	perm_medium_glob	perm_medium_cont	-
DEST1707	lp_time	lai_mean	soil_fra_clay_mean	ele_mt_max	perm_high_glob	perm_high_cont	-
DEBE0155	hp_freq	lulc_2006_Agric	root_dep_min	area_estreams	perm_low_glob	perm_verylow_cont	-
FR002758	lp_freq	ndvi_mean	soil_fra_sand_mean	ele_mt_max	perm_low_glob	perm_verylow_cont	-
FR002462	lp_time	lai_mean	soil_bd_mean	ele_mt_max	perm_high_glob	perm_medium_cont	-
FR001394	p_seasonality	lulc_2006_Agric	soil_tawc_mean	elon_ratio	perm_medium_glob	perm_verylow_cont	-
FR000867	lp_dur	lai_mean	soil_tawc_mean	ele_mt_mean	perm_verylow_glob	perm_medium_cont	-
FR004308	hp_time	lulc_2006_forest	soil_fra_silt_mean	ele_mt_max	perm_high_glob	perm_high_cont	-
DEBU1959	hp_freq	lulc_2006_agriculture	soil_tawc_mean	steep_area_fra	perm_high_glob	perm_high_cont	perm_high_regi

