

**Additional material for the paper *An approach to estimate non-parametric flow duration curves in ungauged basins* by Ganora et al., 2009.**

**Geomorphological descriptors: brief description and list of basins**

Refer to *Viglione et al.* [2007a] on descriptors and see figure 3 of the paper for the geographical locations of the basins.

**Xb, Yb** [m] coordinates of the centroid of the plane projection of the basins;

**Xs, Ys** [m] coordinates of the gauging stations;

**S** [km<sup>2</sup>] area of the plane projection of the drainage basin;

**P** [km] basin's perimeter;

**H, Hmin, Hmax** [m] maximum, minimum and mean elevation of the drainage basin above sea level;

**Lms** [km] length of the main stream;

**LLDP** [km] length of the longest drainage path;

**PLDP** slope of the longest drainage path;

**Lov** [km] length of the orientation vector;

**Slo** average of the slope values associated to each pixel in the DEM of the drainage basin;

**Pm** mean large-scale slope;

**MA** [deg] mean aspect;

**Rc** circularity ratio;

**Ral** elongation ratio;

**Cc** compactness coefficient;

**Ff** shape factor;

**FA** [m] mean of the width function;

**MHL** [m] mean hillslope length;

**Mag** magnitude;

**Dtop** topological diameter;

**TNL** [km] total network length;

**Dd** drainage density;

**logS** log-Area.

Code	River	Station	Xs	Ys	S	P	Xb	Yb	Hmax	Hmin	H	Lms	LLDP	PLDP	Lov
1	Broye	Payerne	341678.82	5187379.5	414.57	148.75	335295.14	5167304.17	1981	444	750	55.62	58.76	3.27	21.07
2	Emme	Emmenmat	405055.84	5200949.32	443.79	126.39	412425.13	5192325.31	2178	639	1076	39.55	41.47	8.64	11.34
3	Ltschine	Gsteig	413507.53	5168644.57	359.97	99.52	420434.26	5160015.76	4069	583	2050	26.04	27.52	15.25	11.07
4	Grbe	Belp-Stockmatt	386142.18	5195614.03	120.24	76.21	385515.4	5183053.94	2131	518	849	26.63	28.55	5.49	12.58
5	Sense	Thrishaus	374532.98	5194211.92	349.72	113.16	375165.13	5180625.19	2164	561	1078	36.16	37.77	14	13.6
6	Emme	Eggwil	408945.88	5191673.2	127.65	67.79	415934.56	5184764.57	2178	743	1293	26.31	28.23	11.32	9.83
7	Weisse Ltschine	Zweiltschinen	415929.95	5164886.83	164.96	60.61	415213.81	5155964.72	4069	654	2122	21.56	24.43	18.51	8.95
8	Simme	Oberried	382980.56	5142824.48	35.43	29.53	385064.34	5140214.82	3226	1116	2347	7.88	9.69	20.67	3.34
9	Adelboden	Adelboden	388856.62	5149027.17	28.93	24.64	386324.49	5147594.92	2727	1335	1862	5.7	7.24	14.53	2.91
10	Gornernbach	Kiental	404742.81	5155611.92	25.3	22.48	407114.67	5152995.21	3612	1334	2314	6.76	8.28	29.08	3.53
11	Biberenkanal	Kerzers	361087.64	5203478.25	48.51	45.63	361484.77	5197724.5	686	433	543	19.92	21.33	2.53	5.77
12	Langeten	Huttwil	411071.17	5219604.22	60.02	41.07	409905.65	5215094.22	1099	602	764	11.68	13.03	5.74	4.66
13	Langeten	Lotzwil	408105.36	5226891.55	115.35	56.06	409004.49	5217973.72	1099	500	715	22.56	23.92	4.17	8.96
14	Mentue	Yvonand	326474.56	5183605.91	100.93	69.56	324584.35	5174506.35	933	442	667	25.19	27.41	7	9.29
15	Orbe	Le Chenit	282476.46	5159373.82	47.81	39.07	278324.44	5154254.85	1550	1094	1246	15.7	17.51	3.4	6.59
16	Poschiavino	La Rsa	583786.33	5146344.39	12.83	17.46	581895	5144895.88	3008	1974	2457	5.35	6.87	18.54	2.38
17	Poschiavino	Le Prese	583689.81	5126419.11	169.64	78.45	581805	5134185	3849	977	2118	22.03	23.16	13.51	7.99
18	Aach	Salmsach	527168.29	5266841.29	47.93	42.81	520154.03	5267205.29	575	406	475	16.82	18.74	1.77	7.02
19	Albula	Tiefencastel	543746.86	5167664.72	529.77	128.25	559935.7	5171805.1	3237	1001	2130	44.94	46.45	10.62	16.71
20	Birse	Moutier	377674.11	5238045.67	181.81	94.66	371476.35	5234354.41	1417	548	925	30.61	32.69	6.57	7.21
21	Dschmabach	Davos	563075.44	5178704.93	43.74	34.57	565153.81	5174414.71	2997	1630	2344	9.96	11.49	15.51	4.77
22	Ergolz	Liestal	404594.43	5260193.31	259.82	87.81	409544.58	5253795.6	1161	306	587	21.34	22.84	5.15	8.09
23	Goldach	Goldach	536616.41	5260185.49	51.36	42.71	535004.47	5252713.4	1245	402	832	18.64	20.2	8.78	7.64
24	Hinterrhein	Andeer	533294.88	5163794.49	509.42	162.02	529606.96	5149755.26	3335	1087	2247	33.96	36.57	13.59	14.52
25	Hinterrhein	Hinterrhein	515823.8	5153103.62	55.18	40.66	510255.84	5150743.82	3335	1602	2344	14.81	16.52	14.44	6.05
26	Landquart	Felsenbach	545743.06	5202507.94	616.47	151.38	561194.09	5196915.59	3339	560	1799	45.74	47.31	9.83	16.43
27	Landquart	Klosters	569958.38	5189883.77	112.55	56	575954.5	5187735.78	3339	1250	2298	13.87	15.45	15.17	6.37
28	Landwasser	Davos	560465.51	5178635.51	185.82	73.22	566326.12	5179005.4	3101	1500	2225	21.44	22.95	10.83	5.87
29	Murg	Wngi	494877.41	5262651.61	75.19	69.51	498463.01	5255596.39	1023	446	625	22.49	24.16	6.62	7.91
30	Plessur	Chur	539055.53	5190131.96	265.64	83.79	549044.49	5183595.85	2944	558	1861	33.07	34.9	15.24	11.94
31	Sitter	Bernhardzell	523745.55	5260817.42	326.77	112.52	527624.62	5243623.18	2446	497	1007	46.9	48.68	8.38	17.63
32	Somvixer Rhein	Somvix	498911.63	5166931.46	22.73	26.01	499634.78	5163794.89	3070	1388	2402	9.14	11.02	19.33	3.22
33	Steinach	Steinach	534018.82	5262795.84	21.58	38.58	530143.79	5254061.93	1083	402	716	17.71	19.61	7.18	9.55
34	Thur	Jonschwilen	505491.55	5252988.28	500.45	129.13	512054.64	5236514.9	2405	538	1022	50.11	51.9	6.62	17.73
35	Thur	Stein	517455.92	5226883.43	84.49	49.01	522045.62	5226344.57	2405	845	1448	13.46	15.25	13.52	4.62
36	Tss	Neftenbach	475866.25	5262350.81	391.08	119.52	487215.22	5252806.23	1292	407	656	44.95	46.18	6.62	14.83
37	Urnsch	Hundwil	522222.17	5243236.02	65.58	42.32	523034.85	5238676.1	2388	776	1107	13.99	15.48	12.79	4.63
38	Werdenberger Binnenkanal	Salez	537432.01	5231115.04	185.77	75.69	532846.26	5223915.04	2315	436	1029	27.39	29.93	6.98	8.54
39	Saaser Vispa	Zerneigern	419441.31	5103655.07	65.99	35.32	418454.56	5098453.93	4160	1736	2847	9.63	10.93	14.17	5.29
40	Borgne	La Luette	379767.13	5113026.68	230.55	76.36	384343.86	5101784.76	3873	971	2549	26.88	28.11	15.92	12.14
41	Baye de Montreux	Les Avants	342788.58	5146263.86	6.99	12.85	343754.57	5147054.74	1820	933	1417	3.02	4.71	22.18	1.25
42	Venoge	Lussery	311079.02	5166958.33	160.92	78.85	302173.61	5165775.93	1661	441	813	30.33	32.63	4.45	8.98
43	Baye de Montreux	Montreux	340788.21	5144895.57	13.53	17.36	342855.42	5146423.66	1820	609	1224	5.79	7.48	20.81	2.57
44	Bavona	Bignasco	469486.01	5132565.02	120.75	55.31	463363.44	5137873.95	3328	453	1934	20.42	22.54	17.01	8.1
45	Reuss	Andermatt	468306.37	5166779.56	193.83	76.62	465165.04	5160554.47	3498	1264	2265	20.42	21.79	13.23	6.97
46	Grosstalbach	Isenthal	466700.26	5195389.14	43.44	35.97	462734.91	5192595.24	2920	810	1808	11.12	12.47	20.67	4.85
47	Alpbach	Erstfeld	469120.12	5184402.43	20.68	21.5	466425.34	5183144.76	3103	1089	2217	6.48	8.34	29.73	2.97
48	Engelberger Aa	Engelberg	453279.14	5185302.95	86.79	42.43	459405.18	5184765.65	3114	997	1955	15.86	17.82	16.2	6.15
49	Engelberger Aa	Buochs	452208.55	5201145.89	230.99	77.74	455803.71	5188903.95	3114	447	1602	35.56	37.51	11.64	12.76
50	Witenwasserrenn	Realp	461382.99	5159957.34	30.85	25.76	459945.65	5156054.69	3059	1577	2421	8.06	9.43	20.09	3.79

Code	River	Station	Xs	Ys	S	P	Xb	Yb	Hmax	Hmin	H	Lms	LLDP	PLDP	Lov
51	Rossegbach	Pontresina	568396.94	5149838.91	67.09	43.75	566505.19	5140933.49	3878	1752	2672	16.37	17.89	13.34	9.1
52	Berninabach	Pontresina	570836.37	5147190.7	108.03	50.82	574424.37	5142285.94	3865	1837	2609	13.39	14.57	6.7	6.08
53	Ova da Chuoza	Zernez	585473.7	5171709.8	27.17	25.5	585404.42	5166314.08	3119	1535	2362	10.24	11.62	23.21	5.4
54	Chamuerabach	La Punt Chamues	571416.71	5158294	74.2	40.67	575954.77	5162544.51	3197	1702	2540	14.46	15.52	17.37	7.32
55	Biber	Ramsen	485513.6	5283770.16	163.52	77.53	479475.6	5291774.82	837	410	552	25.88	27.49	3.72	10.03
56	Seez	Weisstannen	526895.43	5205191.04	72.64	41.56	523214.14	5202135.15	2813	952	1901	11.46	13.29	22.39	4.78
57	Minster	Euthal	485858.98	5215018.7	63.78	36.25	483795	5209514.42	2250	886	1326	12.79	14.22	7.94	5.88
58	Steinbach	Kaltbrunn	503324.13	5228593.51	18.96	22.85	506655.88	5228685.81	1900	500	1127	8.35	9.71	15.87	3.33
59	Ticino	Bellinzona	502772.8	5117525.2	1516.03	275.35	496847.49	5139585.37	3358	232	1682	79.27	80.99	8.43	22.84
60	Toce	Candoglia	455247	5090657	1539.36	263	439950	5110850	4488	203	1671	82.64	84.92	7.41	25.33
61	Mastallone	Ponte Folle	442083	5075487	146.55	63	437950	5081750	2417	492	1324	22.14	23.54	19.31	7.5
62	Sesia	Campertogno	424653	5072656	170.74	69	416950	5076450	4471	828	2113	20.26	21.62	22.37	8.59
63	Sesia	Ponte Aranco	444885	5061708	702.87	142	429150	5075850	4471	328	1496	61.38	62.75	12.98	21.16
64	Rutor	Promise	341062	5062853	45.03	35	341750	5059450	3414	1508	2554	8.45	11.11	18.21	3.47
65	Savar	Eau Rousse	360242.04	5047894.43	81.25	43	359550	5042650	3916	1650	2694	10.86	12.13	22.07	5.29
66	Dora Baltea	Aosta	371847	5065981	1846.37	296	358150	5064450	4727	547	2262	57.51	58.7	10.08	13.78
67	Artanavaz	St.Oyen	360182.51	5075749.25	69.16	38	356250	5076750	3167	1351	2230	10.45	12.12	18.84	4.06
68	Ayasse	Champorcher	392518	5052993	41.85	31	387350	5052050	3119	1372	2364	10.75	12.44	19.94	5.25
69	Lys	Gressoney St.Jean	408449	5071177	90.44	46	408750	5078650	4427	1398	2637	15.58	17.47	22.01	7.48
70	Evancan	Champoluc	400630	5075832	102.42	51	402150	5080650	4157	1553	2635	12.44	14.43	23.29	5.05
71	Dora Baltea	Tavagnasco	408854	5043555	3319.95	350	374950	5065150	4727	259	2085	117.12	118.31	7.28	40.2
72	Orco	Pont Canavese	391455	5030182	613.44	145	376250	5036250	3835	429	1928	51.04	53.21	10	16.37
73	Stura di Lanzo	Lanzo	380917	5014005	578.35	123	365150	5016450	3633	461	1769	39.8	41.26	15.64	15.96
74	Dora Riparia	Oulx	329119	4988888	257.49	87	329950	4977450	3258	1079	2168	34.45	35.94	15.64	11.47
75	Dora Riparia	S.Antonino di Susa	362906	4996791	1037.87	254	335150	4993350	3577	385	1898	79.27	80.76	8.83	27.97
76	Chisone	Southeres Basses	338657.73	4987848.29	92.92	49.16	337050	4982050	3228	1506	2227	15.93	17.18	15.14	6.02
77	Chisone	Fenestrelle	346024	4989051	154.12	71	339150	4985050	3228	1153	2152	25.13	26.38	13.24	7.95
78	Chisone	S.Martino	363869	4971770	580.51	126	348550	4980550	3228	417	1734	55.84	57.09	10.62	17.66
79	Po	Crissolo	354450.78	4950954.2	37.3	27	350350	4950750	3704	1294	2240	8.29	10.14	23.9	4.11
80	Grana	Monterosso	367078	4918842	109.62	54	360050	4917850	2607	711	1534	19.61	20.96	17.07	7.1
81	Rio del Piz	Pietraporzio	343044.1	4911675.05	21.62	23	341550	4908350	2980	1273	2193	7.17	8.82	23.14	3.65
82	Rio Bagni	Bagni Vinadio	347105	4906010	61.15	35	344150	4903350	2932	1257	2138	8.33	9.92	23.19	3.98
83	Stura di Demonte	Pianche	349454.97	4907337.05	179.7	73	340750	4913250	2980	972	2073	25.56	27.49	15.81	10.52
84	Stura di Demonte	Gaiola	373774	4910281	559.96	141	351050	4908650	2980	661	1817	56.28	58.21	9.33	22.78
85	Gesso	Entracque	371058	4901682	159.61	61	372250	4893250	3178	815	1886	17.04	18.69	21.55	8.52
86	Vermenagna	Limone	385914	4896184	57.3	37	385850	4892550	2713	963	1684	9.71	11.48	18.51	3.63
87	Corsaglia	Presa C.Molline	407071	4904931	89.38	46	406050	4897450	2593	643	1529	17.6	18.82	23.11	7.55
88	Tanaro	Ponte Nava	410758	4885835	148.53	63	401450	4886350	2612	788	1569	19.76	21.55	19.27	9.32
89	Tanaro	Nucetto	425280	4910519	374.93	135	411850	4892350	2612	453	1224	55.78	57.57	11.1	22.59
90	Tanaro	Farigliano	412701	4929373	1497.18	199	407850	4905250	2625	239	948	100.46	102.25	8.05	24.61
91	Tanaro	Montecastello	475365	4976584	7982.8	626	425050	4932750	3178	82	656	224.13	225.92	4.31	66.73
92	Erro	Sassello	456328	4926986	92.05	60	457350	4922150	1246	324	600	19.06	20.17	7.8	4.94
93	Bormida	Cassine	463745	4954630	1514.38	237	445350	4926450	1376	117	494	133.85	135.26	5.23	33.65
94	Borbera	Baracche	500626	4951965	202.2	69	508450	4946050	1672	359	869	24.15	25.42	13.31	9.81
95	Scrivera	Serravalle	488864	4952192	613.76	128	502950	4941650	1672	203	687	53.53	55.3	8.66	17.59

Code	Slo	Pm	MA	Rc	Ral	Cc	Ff	FA	MHL	Mag	Dtop	TNL	Dd	Log-S
1	11.81	2.77	327.75	0.24	0.39	6.47	0.12	32096.77	722.28	103	45	298.14	0.72	6.03
2	27.68	3.55	318.59	0.35	0.57	5.32	0.26	19598.83	665.56	110	35	279.72	0.63	6.1
3	56.21	14.98	333.82	0.46	0.78	4.65	0.48	18751.37	940.19	90	25	212.75	0.59	5.89
4	20.31	4.29	52.61	0.26	0.43	6.16	0.15	17248.22	820.26	38	26	83.95	0.7	4.79
5	24.21	4.34	344.77	0.34	0.56	5.36	0.25	20751.65	676.13	87	27	225.24	0.64	5.86
6	32.55	9.15	334.78	0.35	0.45	5.32	0.16	15201.73	712.89	29	21	75.96	0.6	4.85
7	58.26	22.45	346.53	0.56	0.59	4.18	0.28	12764.98	945.01	37	19	91.34	0.55	5.11
8	44.31	45.8	308.63	0.51	0.69	4.4	0.38	5329.94	860.01	10	9	22.66	0.64	3.57
9	44.99	18.74	77.46	0.6	0.84	4.06	0.55	4335.65	660.07	6	3	15.88	0.55	3.36
10	58.5	37.85	323.05	0.63	0.69	3.96	0.37	4983.54	899.91	7	7	13.63	0.54	3.23
11	6.53	3.04	8.93	0.29	0.37	5.81	0.11	12032.73	667.66	12	10	33.64	0.69	3.88
12	13.61	4.05	355.86	0.45	0.67	4.7	0.35	7202.48	609.93	15	10	40.39	0.67	4.09
13	14.15	4.06	354.53	0.46	0.51	4.63	0.2	13412.75	619.59	27	17	79.66	0.69	4.75
14	8.64	4.2	332.17	0.26	0.41	6.14	0.13	12162.28	724.57	25	11	67.96	0.67	4.61
15	14.26	3.91	333.84	0.39	0.45	5.01	0.16	8561.23	841.73	13	12	28.99	0.61	3.87
16	48.2	27.64	50.47	0.53	0.59	4.32	0.27	3588.37	770.82	2	2	5.31	0.41	2.55
17	49.53	18.21	140.62	0.35	0.63	5.34	0.32	12320.98	826.44	48	29	101.72	0.6	5.13
18	3.98	1.73	117.42	0.33	0.42	5.48	0.14	10221.64	738.05	15	13	37.65	0.79	3.87
19	46.9	10.38	272.12	0.4	0.56	4.94	0.25	24279.2	779.79	102	38	294.08	0.56	6.27
20	26.25	5.44	17.31	0.25	0.47	6.22	0.17	13160.11	784.33	46	25	106.02	0.58	5.2
21	46.99	22.41	310.13	0.46	0.65	4.63	0.33	6524.95	852.77	9	9	19.67	0.45	3.78
22	21.18	3.29	355.3	0.42	0.8	4.83	0.5	13110.45	628.7	67	20	163.31	0.63	5.56
23	17.96	13	338.13	0.35	0.4	5.28	0.13	12968.71	698.07	14	13	34.76	0.68	3.94
24	48.2	10.74	42.34	0.24	0.7	6.36	0.38	22448.74	808.07	100	31	263.71	0.52	6.23
25	51.4	20.41	75	0.42	0.51	4.85	0.2	7721.8	811.16	13	12	29.68	0.54	4.01
26	43.28	10.11	254.81	0.34	0.59	5.4	0.28	24245.13	818.9	134	52	345.45	0.56	6.42
27	50.92	21.15	266.97	0.45	0.77	4.68	0.47	9913.5	789.44	23	12	61.24	0.54	4.72
28	43.37	11.22	277.78	0.44	0.67	4.76	0.35	12012.45	834.64	38	16	95.15	0.51	5.22
29	12.75	3.28	352.12	0.2	0.41	7.1	0.13	12254.97	664.43	22	16	58.29	0.78	4.32
30	41.72	16.7	316.61	0.48	0.53	4.56	0.22	19342.67	798.97	61	31	157.81	0.59	5.58
31	25.18	4.89	341.13	0.32	0.42	5.52	0.14	28869.64	715.02	76	33	210.03	0.64	5.79
32	49.49	42.54	256.67	0.42	0.49	4.83	0.19	6108.43	717.47	7	7	13.44	0.59	3.12
33	13.1	12.53	359.9	0.18	0.27	7.36	0.06	12370.83	584.13	4	3	19.94	0.92	3.07
34	27.54	3.6	351.01	0.38	0.49	5.12	0.19	26391.02	703.82	116	50	312.77	0.62	6.22
35	38.5	12.58	3.28	0.44	0.68	4.73	0.36	8713.88	764.95	20	13	51.01	0.6	4.44
36	16.07	2.21	300.64	0.34	0.48	5.36	0.18	22821.75	652.02	91	33	271.39	0.69	5.97
37	28.23	7.24	339.25	0.46	0.59	4.63	0.27	7986.5	696.57	16	11	45.46	0.69	4.18
38	30.3	7.81	90.88	0.41	0.51	4.92	0.21	14246.07	834.26	42	15	139.49	0.75	5.22
39	45.3	27.48	41.55	0.66	0.84	3.85	0.55	7481.84	911.65	17	11	37.48	0.57	4.19
40	51.19	21.36	316.61	0.5	0.61	4.46	0.29	16191.18	933.56	59	29	137.16	0.59	5.44
41	44.97	37.23	252.99	0.53	0.63	4.31	0.32	2155.78	674.21	2	2	3.49	0.5	1.94
42	12.17	4.02	116.9	0.33	0.44	5.51	0.15	18556.29	876.61	43	21	120.78	0.75	5.08
43	44.36	33.6	247.9	0.56	0.56	4.18	0.24	3548.36	686.12	3	3	7.1	0.52	2.61
44	60.96	29.36	106.28	0.5	0.55	4.46	0.24	11431.32	826.15	33	20	66.78	0.55	4.79
45	45.9	14.98	76.32	0.41	0.72	4.88	0.41	12220.98	818.68	39	16	101.14	0.52	5.27
46	57.38	29.56	36.31	0.42	0.6	4.84	0.28	7162.83	709.58	10	6	25.69	0.59	3.77
47	61.55	50.05	59.4	0.56	0.62	4.19	0.3	4161.53	824.93	4	3	10.55	0.51	3.03
48	56.72	21.9	273.57	0.61	0.59	4.04	0.27	9439	861.56	25	17	46.5	0.54	4.46
49	53.14	15.13	314.2	0.48	0.46	4.53	0.16	19745.19	825.78	58	37	132.35	0.57	5.44
50	42.17	31.9	10.41	0.58	0.66	4.11	0.35	5428	796.63	4	4	14.15	0.46	3.43

Code	Slo	Pm	MA	Rc	Ral	Cc	Ff	FA	MHL	Mag	Dtop	TNL	Dd	Log-S
51	52.29	23.1	3.86	0.44	0.52	4.73	0.21	11693.51	973.57	18	11	35.46	0.53	4.21
52	45.98	14.43	28.03	0.53	0.81	4.33	0.51	9544.76	815.37	23	11	61.54	0.57	4.68
53	61.16	32.34	11.18	0.52	0.51	4.34	0.2	6747.8	601.97	3	3	15.25	0.56	3.3
54	48.04	20.18	321.56	0.56	0.63	4.18	0.31	9715.94	699.89	11	7	36.16	0.49	4.31
55	10.3	1.92	140.95	0.34	0.52	5.37	0.22	15840.21	680.41	43	19	107.36	0.66	5.1
56	55.17	23.54	43.07	0.53	0.72	4.32	0.41	7498.49	695.96	17	12	37.87	0.52	4.29
57	31.58	11.07	36.73	0.61	0.63	4.02	0.32	9076.69	775.43	16	10	37.71	0.59	4.16
58	33.39	28.98	268.37	0.46	0.51	4.65	0.2	5284.35	643.5	4	4	10.64	0.56	2.94
59	55.98	7.88	145.05	0.25	0.54	6.27	0.23	37901.11	817.16	362	92	903.13	0.6	7.32
60	54.67	7.75	331.73	0.28	0.52	5.94	0.21	47059.39	812.97	379	87	884.26	0.57	7.34
61	52.75	13.15	278.28	0.46	0.58	4.61	0.26	13520.72	636.3	25	11	85.09	0.58	4.99
62	59.57	19.82	318.29	0.45	0.68	4.68	0.37	13652.83	807.72	40	20	98.34	0.58	5.14
63	53.11	8.4	322.09	0.44	0.48	4.75	0.18	36884.45	723.53	151	49	400.44	0.57	6.56
64	38.13	31.62	107.08	0.46	0.68	4.62	0.36	5915.33	719.02	12	9	33.3	0.74	3.81
65	46.15	23.45	136.98	0.55	0.84	4.23	0.55	7845.61	865.43	16	12	49.07	0.6	4.4
66	51.88	8.33	346.44	0.26	0.83	6.1	0.54	32956.26	856.47	438	67	1110.97	0.6	7.52
67	49.05	21.76	347.04	0.6	0.77	4.05	0.47	6345.27	783.61	15	10	36.05	0.52	4.24
68	40.02	32	9.63	0.55	0.59	4.25	0.27	7141.53	669.08	10	8	27.18	0.65	3.73
69	52.09	25.03	258.55	0.54	0.61	4.29	0.3	9655.14	847.54	24	17	54.29	0.6	4.5
70	47.23	20.47	233.77	0.49	0.79	4.47	0.49	7842.83	794.82	20	12	62.07	0.61	4.63
71	50.65	6.61	275.37	0.34	0.55	5.38	0.24	69164.36	845.38	767	144	1987.23	0.6	8.11
72	54.46	12.23	323.26	0.37	0.53	5.19	0.22	23977.81	796.22	142	43	346.36	0.56	6.42
73	49.79	10.71	343.87	0.48	0.66	4.53	0.34	25369.99	817.96	133	30	322.54	0.56	6.36
74	42.89	13.61	142.75	0.43	0.5	4.8	0.2	18632.18	850.46	54	28	133.81	0.52	5.55
75	44.77	9.87	285.37	0.2	0.45	6.99	0.16	44358.27	852.99	242	73	637.96	0.61	6.94
76	43.05	15.13	132.57	0.48	0.63	4.52	0.31	8890.43	870.64	18	14	48.05	0.52	4.53
77	44.87	16.45	248.1	0.38	0.53	5.07	0.22	13482.58	862.89	37	25	85.52	0.55	5.04
78	46.66	11.21	309.42	0.46	0.48	4.63	0.18	28956.2	776.9	135	55	331.9	0.57	6.36
79	45.87	31.96	8.53	0.64	0.68	3.92	0.36	5768.65	737.15	10	8	22.74	0.61	3.62
80	46	14.38	25.82	0.47	0.56	4.57	0.25	10238.03	683.85	25	16	61.19	0.56	4.7
81	52.93	41.08	76.71	0.51	0.59	4.38	0.28	4554.84	665.79	4	4	13.35	0.62	3.07
82	53.03	23.45	26.93	0.63	0.89	3.97	0.62	6100.47	745.4	11	6	32.59	0.53	4.11
83	50.15	17.4	353.82	0.42	0.55	4.83	0.24	14598.05	758.47	33	19	96.54	0.54	5.19
84	48.56	10.47	21.13	0.35	0.46	5.28	0.17	32060.6	760.93	106	40	312.87	0.56	6.33
85	60	17.32	86.05	0.54	0.76	4.28	0.46	11633.63	788.56	39	12	84.84	0.53	5.07
86	43.39	18.73	87.91	0.53	0.74	4.33	0.43	5915.21	703.29	19	9	32.62	0.57	4.05
87	44.54	18.3	70.34	0.53	0.57	4.31	0.25	10955.67	633.1	18	11	55.05	0.62	4.49
88	42.62	12.01	319.3	0.47	0.64	4.58	0.32	12837.43	708.66	36	16	86.48	0.58	5
89	38.04	7.22	330.21	0.26	0.38	6.18	0.11	32458.36	707.77	88	50	223.36	0.6	5.93
90	27.68	2.78	71.84	0.48	0.43	4.56	0.14	50385.09	679	337	75	1039.39	0.69	7.31
91	21.36	0.8	68.94	0.26	0.45	6.21	0.16	111063.4	674.65	1827	178	5675.98	0.71	8.99
92	20.2	5.17	131.7	0.32	0.54	5.54	0.23	10265	628.45	25	11	65.56	0.71	4.52
93	20.55	1.76	90.07	0.34	0.32	5.4	0.08	63675.25	641.2	380	106	1006.3	0.66	7.32
94	34.24	6.64	171.38	0.53	0.63	4.3	0.31	14434.24	699.19	46	17	112.42	0.56	5.31
95	31.1	3.54	171.69	0.47	0.51	4.58	0.2	28217.25	663.52	136	40	363.36	0.59	6.42

## List of basins classified by region

(see figure 4 of the paper)

Cluster 1	
1	Broye at Payerne
2	Emme at Emmenmat
3	Lütschine at Gsteig
4	Gürbe at Belp.Stockmatt
5	Sense at Thörishaus
6	Emme at Eggwil
7	Weisse Lütschine at Zweilütschinen
9	Allenbach at Adelboden
11	Biberenkanal at Kerzers
12	Langeten at Huttwil
13	Langeten at Lotzwil
14	Mentue at Yvonand
18	Aach at Salmsach
20	Birse at Moutier
22	Ergolz at Liestal
23	Goldach at Goldach
26	Landquart at Felsenbach
29	Murg at Wängi
30	Plessur at Chur
31	Sitter at Bernhardzell
32	Somvixer Rhein at Somvix
33	Steinach at Steinach
34	Thur at Jonschwilen
35	Thur at Stein
36	Töss at Neftenbach
37	Urnäh at Hundwil
38	Werdenberger Binnenkanal at Salez
41	Baye de Montreux at Les Avants
42	Venoge at Lussery
43	Baye de Montreux at Montreux
44	Bavona at Bignasco
46	Grosstalbach at Isenthal
49	Engelberger Aa at Buochs
53	Ova da Cluozza at Zernez
54	Chamuerabach at La Punt Chamues
55	Biber at Ramsen
56	Seez at Weisstannen
57	Minster at Euthal
58	Steinenbach at Kaltbrunn
59	Ticino at Bellinzona
60	Toce at Candoglia
61	Mastallone at Ponte Folle
62	Sesia at Campertogno
63	Sesia at Ponte Aranco
64	Rutor at Promise
66	Dora Baltea at Aosta
68	Ayasse at Champorcher
71	Dora Baltea at Tavagnasco
72	Orco at Pont Canavese
73	Stura di Lanzo at Lanzo
75	Dora Riparia at S.Antonino di Susa
78	Chisone at S.Martino
79	Po at Crissolo
80	Grana at Monterosso
81	Rio del Piz at Pietraporzio
82	Rio Bagni at Bagni Vinadio
83	Stura di Demonte at Pianche
84	Stura di Demonte at Gaiola
85	Gesso at Entraque
86	Vermenagna at Limone
87	Corsaglia at Presa C.Molline
88	Tanaro at Ponte Nava
89	Tanaro at Nucetto
90	Tanaro at Farigliano
91	Tanaro at Montecastello
92	Erro at Sassello
93	Bormida at Cassine
94	Borbera at Baracche
95	Scivia at Serravalle

## Cluster 2

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- 8 Simme at Oberried
- 10 Gornernbach at Kiental
- 15 Orbe at Le Chenit
- 16 Poschiavino at La Rösa
- 17 Poschiavino at Le Prese
- 19 Albula at Tiefencastel
- 21 Dischmabach at Davos
- 24 Hinterrhein at Andeer
- 25 Hinterrhein at Hinterrhein
- 27 Landquart at Klosters
- 28 Landwasser at Davos
- 39 Saaser Vispa at Zermeigern
- 40 Borgne at La Lulette
- 45 Reuss at Andermatt
- 47 Alpbach at Erstfeld
- 48 Engelberger Aa at Engelberg
- 50 Witenwasserenreuss at Realp
- 51 Roseggbach at Pontresina
- 52 Berninabach at Pontresina
- 65 Savar at Eau Rousee
- 67 Artanavaz at St.Oyen
- 69 Lys at Gressoney St.Jean
- 70 Evancon at Champoluc
- 74 Dora Riparia at Oulx
- 76 Chisone at Soucheres Basses
- 77 Chisone at Fenestrelle