

Table S1. Basic geometric characteristics of the study province.

Basins	Area, A (km ²)	Perimeter, P (km)	Length, Lu (km)	Width, W (km)	Max. elevation, H (m)	Min. elevation, h (m)
1	545.99	140.87	43.88	19	341	1445
2	228.88	143.77	35.81	14.84	-16	322
3	556.27	142.25	36.1	22.86	-13	469
4	164.96	128.38	36.18	7.05	-8	309
5	543.72	135.58	31.74	24.12	-38	2652
6	1836.23	347.29	99.35	30.11	-3	2215
7	780.45	189.18	51.82	21.3	-4	615
8	110.42	118.34	36.59	3.82	-8	274
9	178.51	98.78	30.19	10.17	-8	154
10	55.93	67.94	21.27	5.1	-10	121
11	116.52	95.02	30.13	8.44	-6	221
12	160.49	85.31	25.77	8.28	-21	172
13	107.48	96.01	26.81	7.73	-2	133
14	260.43	102.49	27.57	12.99	-10	272
15	121.31	75.07	24.16	7.51	-6	270
16	120.09	77.90	25.61	6.96	-4	222
17	205.05	146.49	29.74	13.08	-12	205
18	127.29	110.83	33.23	4.92	1	215
19	1763.62	343.18	87	32.48	-14	2622
20	199.98	74.07	20.54	16.15	1527	2567
21	366.64	133.83	36.7	18.67	1314	2309
22	912.67	232.13	49.37	26.56	1298	2648
23	238.20	122.63	39.23	10.26	-6	1211
24	1370.70	237.63	68.13	31.31	-11	1875
25	141.24	101.53	32.11	5.92	-4	598
26	3224.36	442.72	108.34	55.67	-18	2651
27	707.15	229.51	62.63	17.65	-32	1725
28	682.54	173.00	45.54	16.41	-38	943
29	110.84	67.72	17.83	8.33	-10	260
30	708.67	189.46	55.23	21.83	-8	1567
31	229.10	119.34	36.37	10.16	-6	195
32	1757.81	356.96	102.21	38.24	-6	2607
33	1217.68	250.99	71.68	21.89	-20	1486
34	1130.58	249.80	64.87	27.14	-25	608
35	1220.60	336.37	90.5	33.26	-6	2608
36	113.97	104.17	28.33	4.65	-18	132
37	222.56	144.61	41.34	9.03	-5	218
38	168.09	166.12	49.26	7.52	-8	300
39	2357.05	454.67	110.71	56.54	-7	2607
40	5431.84	716.15	158.27	33.67	-8	2332
41	303.40	126.04	32.57	11.06	-7	542

42	169.75	88.82	25.52	10.05	-20	237
43	341.70	158.76	31.81	25.16	0	688
44	747.74	174.91	27.49	35.73	-25	530
45	2723.44	568.41	131.34	44.39	-27	1295
46	5233.00	529.41	124	49.44	-7	1618
47	136.04	120.59	37.18	7.34	-4	188
48	2223.06	370.78	107.72	36.15	-6	1575
49	121.55	90.87	27.03	8.1	-12	177
50	873.51	330.94	94.2	15.92	-14	1344
51	142.93	109.03	28.54	10.65	-15	104
52	743.09	183.27	38.33	25.96	-21	584
53	3118.65	474.87	43.13	53.17	-16	1268
54	1095.59	227.76	51.16	42.92	-27	1365
55	449.35	131.19	27.74	23.78	421	1326
56	95.63	62.48	20.12	9	1024	1374
57	117.05	82.15	24.6	6.53	893	1098
58	370.88	149.76	47.9	12.41	899	1537
59	317.51	172.73	52.92	12.16	894	1470
60	4336.62	456.21	123.55	73.17	888	1532
61	2294.20	615.15	177.84	19.32	892	2600
62	17501.69	1025.87	148.11	104.26	875	2575
63	285.78	111.36	13.17	26.84	790	1238
64	316.68	106.61	27.26	18	971	1454
65	115.75	72.51	21.99	8.89	989	1095
66	261.61	94.72	17.5	17.92	965	1065
67	105.20	59.03	15.7	9.52	956	1032
68	108.41	59.82	17.35	8.09	948	1023
69	259.41	96.04	21.2	23.06	933	1076
70	105.29	62.81	17.41	9.22	945	1043
71	141.21	119.48	12.67	27.94	939	1055
72	14124.18	976.12	93.7	155.87	898	1461
73	39718.41	1565.12	174.37	271.76	810	2652
74	908.41	280.93	83.32	22.01	818	1131
75	127.57	79.46	23.34	10.44	833	1033
76	635.78	154.33	38.99	21.83	798	1043
77	326.39	119.01	32.5	14.11	788	984
78	211.06	99.05	24.34	9.64	842	1213
79	169.11	98.26	28.16	13.41	1462	1091
80	336.33	115.21	31.34	16.39	1129	1499

Table S2: Stream orders (Os) and stream numbers (Ns) of the study province.

Basins	I	II	III	IV	V	VI	Total
B1	20	5	1	0	0	0	26
B2	8	1	0	0	0	0	9
B3	16	6	2	1	0	0	25
B4	2	1	0	0	0	0	3
B5	14	5	2	1	0	0	22
B6	51	13	1	0	0	0	65
B7	26	5	2	1	0	0	34
B8	1	0	0	0	0	0	1
B9	5	1	0	0	0	0	6
B10	2	1	0	0	0	0	3
B11	5	1	0	0	0	0	6
B12	4	1	0	0	0	0	5
B13	4	1	0	0	0	0	5
B14	8	2	1	0	0	0	11
B15	4	1	0	0	0	0	5
B16	5	1	0	0	0	0	6
B17	4	1	0	0	0	0	5
B18	3	1	0	0	0	0	4
B19	61	18	4	1	0	0	84
B20	9	1	0	0	0	0	10
B21	9	2	1	0	0	0	12
B22	30	9	3	1	0	0	43
B23	8	1	0	0	0	0	9
B24	41	8	4	1	0	0	54
B25	4	1	0	0	0	0	5
B26	101	22	8	2	1	0	134
B27	21	4	1	0	0	0	26
B28	20	6	2	1	0	0	29
B29	5	1	0	0	0	0	6
B30	25	7	2	1	0	0	4
B31	9	3	1	0	0	0	13
B32	57	13	3	1	0	0	74
B33	39	10	3	1	0	0	53
B34	41	10	3	1	0	0	55
B35	41	8	2	1	0	0	52
B36	4	1	0	0	0	0	5
B37	6	1	0	0	0	0	7
B38	5	1	0	0	0	0	6
B39	78	19	4	1	0	0	102
B40	169	34	8	2	1	0	214
B41	11	2	1	0	0	0	14
B42	6	2	1	0	0	0	9

B43	11	3	1	0	0	0	15
B44	22	7	2	1	0	0	32
B45	84	18	3	1	0	0	106
B46	158	33	7	2	1	0	201
B47	3	1	0	0	0	0	4
B48	64	16	3	1	0	0	84
B49	4	1	0	0	0	0	5
B50	30	7	2	1	0	0	40
B51	6	2	1	0	0	0	9
B52	19	4	2	1	0	0	26
B53	103	26	8	2	1	0	140
B54	44	12	2	1	0	0	59
B55	14	3	1	0	0	0	18
B56	3	1	0	0	0	0	4
B57	5	3	1	0	0	0	9
B58	11	3	1	0	0	0	15
B59	10	2	1	0	0	0	13
B60	126	32	8	4	1	0	181
B61	63	14	5	1	0	0	83
B62	506	118	28	9	2	1	664
B63	12	2	1	0	0	0	15
B64	12	4	1	0	0	0	17
B65	2	1	0	0	0	0	3
B66	8	2	1	0	0	0	11
B67	5	1	0	0	0	0	6
B68	5	2	1	0	0	0	8
B69	7	2	1	0	0	0	10
B70	4	1	0	0	0	0	5
B71	5	1	0	0	0	0	6
B72	433	99	25	7	1	0	565
B73	1254	304	63	19	4	1	1645
B74	22	6	2	1	0	0	31
B75	5	1	0	0	0	0	6
B76	20	5	1	0	0	0	26
B77	10	4	1	0	0	0	15
B78	8	1	0	0	0	0	9
B79	6	3	1	0	0	0	10
B80	10	2	1	0	0	0	13