

Supplementary data

Analyzing Drought Propagation and Its Influential Factors in the Upper Nan Watershed, Thailand

In this study, cross wavelet transform analysis (XWT) between the SPEI and the SSI was carried out for 25 sub-watersheds. The XWT graph of each watershed can be seen in Figure S1.

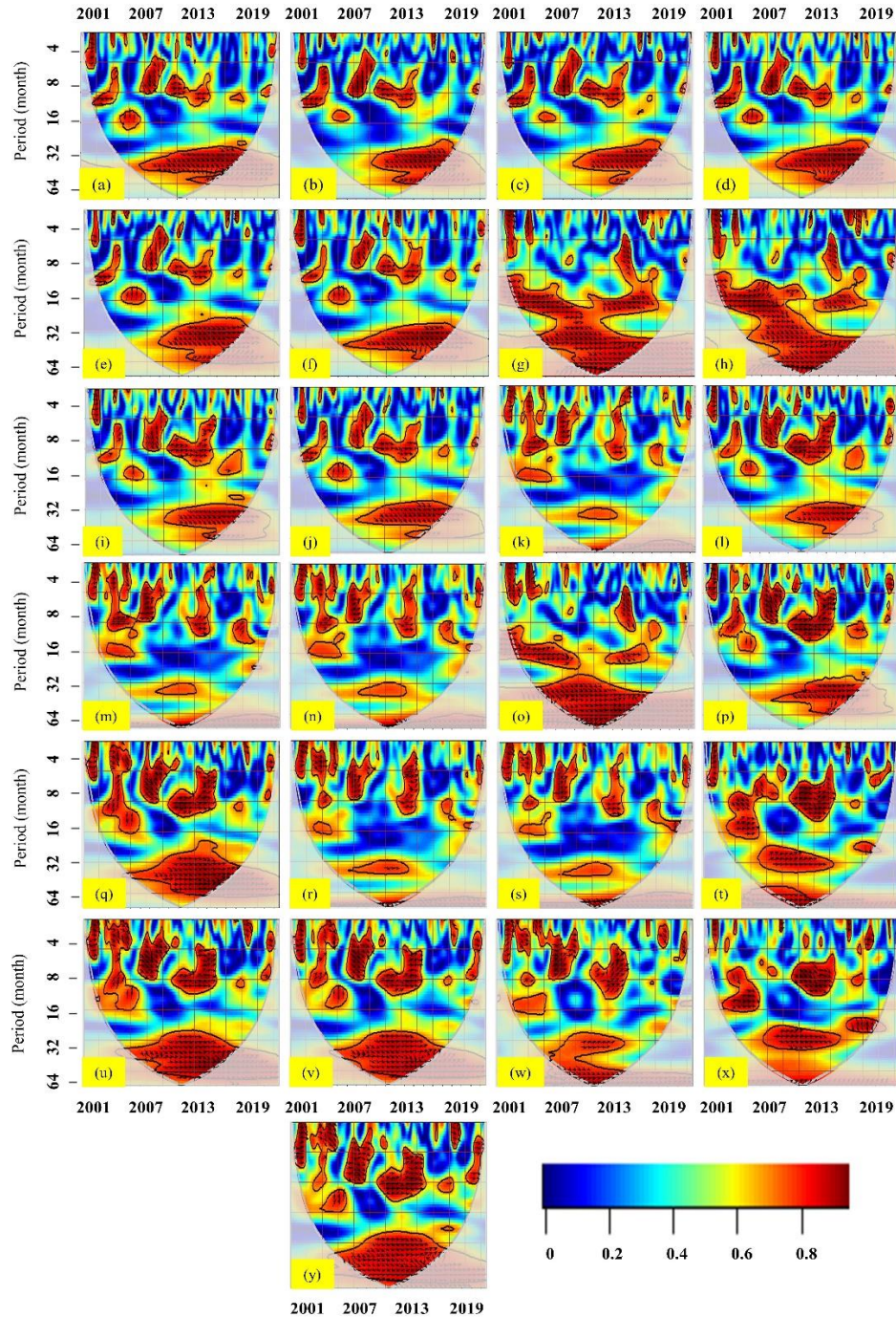


Figure S1. The cross wavelet transforms between SPEI and SSI of sub-watersheds (a) 1, (b) 2, (c) 3, (d) 4, (e) 5, (f) 6, (g) 7, (h) 8, (i) 9, (j) 10, (k) 11, (l) 12, (m) 13, (n) 14, (o) 15, (p) 16, (q) 17, (r) 18, (s) 19, (t) 20, (u) 21, (v) 22, (w) 23, (x) 24, and (y) 25.

Table S1. Upper Nan Watershed morphometry

Sub-W	MSO	DD	CR	ER	RR
1	3	0.51	0.20	0.62	58.8
2	2	0.29	0.29	0.63	35.3
3	3	0.25	0.30	0.64	46.0
4	3	0.16	0.30	0.62	45.4
5	3	0.18	0.32	0.62	63.6
6	2	0.18	0.30	0.59	56.6
7	2	0.21	0.28	0.63	80.2
8	2	0.25	0.30	0.59	43.9
9	3	0.30	0.34	0.56	24.7
10	2	0.27	0.24	0.60	53.6
11	3	0.32	0.22	0.60	63.3
12	3	0.45	0.17	0.61	33.4
13	2	0.32	0.23	0.63	95.8
14	3	0.49	0.10	0.62	81.7
15	3	0.28	0.24	0.57	34.6
16	4	0.31	0.22	0.68	26.0
17	4	0.37	0.12	0.63	66.5
18	3	0.42	0.16	0.60	61.1
19	3	0.33	0.25	0.59	54.6
20	4	0.27	0.27	0.62	40.1
21	4	0.36	0.26	0.60	36.3
22	4	0.37	0.24	0.68	43.4
23	5	0.33	0.29	0.63	25.6
24	4	0.37	0.26	0.59	27.9
25	5	0.35	0.18	0.59	13.7

Note: MSO, maximum stream order; DD, drainage density; CR, circulatory ratio; ER, elongation ratio; RR, relief ratio.