

Table S1 Agricultural land area changes in different land use type during the periods of 1980-2000 and 2000-2016 in Tai Lake basin.

Year	2000							Unit: km ²	
	Land use type	Paddy field	Dry land	Woodland	Grassland	Water area	Construction land	Unused land	Reduction value
1980	Paddy field	23740.30	4.00	4.02	0.16	159.00	1612.10	0.00	1779.28
	Dry land	8.38	1896.44	51.62	0.05	5.72	296.44	0.16	362.37
	Woodland	1.05	2.54	5664.71	1.54	2.14	36.24	1.57	45.08
	Grassland	0.00	0.23	0.00	170.49	1.70	4.77	0.10	6.80
	Water area	5.41	0.23	0.02	1.25	5411.69	7.74	0.00	14.65
	Construction land	1.41	0.45	0.12	0.00	0.15	4213.86	0.00	2.13
	Unused land	0.09	0.00	0.71	0.00	1.77	0.21	14.78	2.77
	Added value	16.34	7.44	56.50	3.00	170.48	1957.49	1.82	---
Year	2016							Unit: km ²	
	Land use type	Paddy field	Dry land	Woodland	Grassland	Water area	Construction land	Unused land	Reduction value
2000	Paddy field	10056.92	3142.73	192.07	21.76	1606.16	4632.84	464.01	10059.56
	Dry land	196.72	955.74	82.87	2.70	42.34	321.84	15.71	662.19
	Woodland	44.77	53.24	4579.33	11.46	30.32	112.30	38.80	290.90
	Grassland	3.62	3.18	95.94	22.02	12.08	6.20	4.56	125.57
	Water area	225.61	62.68	10.91	2.43	4193.13	210.07	32.85	544.56
	Construction land	354.49	196.78	44.62	6.05	91.97	4443.09	77.07	693.90
	Unused land	0.19	0.00	2.20	0.00	2.49	1.52	7.72	6.40
	Added value	825.41	3458.60	428.62	44.40	1785.35	5284.77	633.01	---

Reduction value: the amount of conversion of this land type into other land types from 1980 to 2000. Added value: the amount of conversion of other land types into this land type from 2000 to 2016.

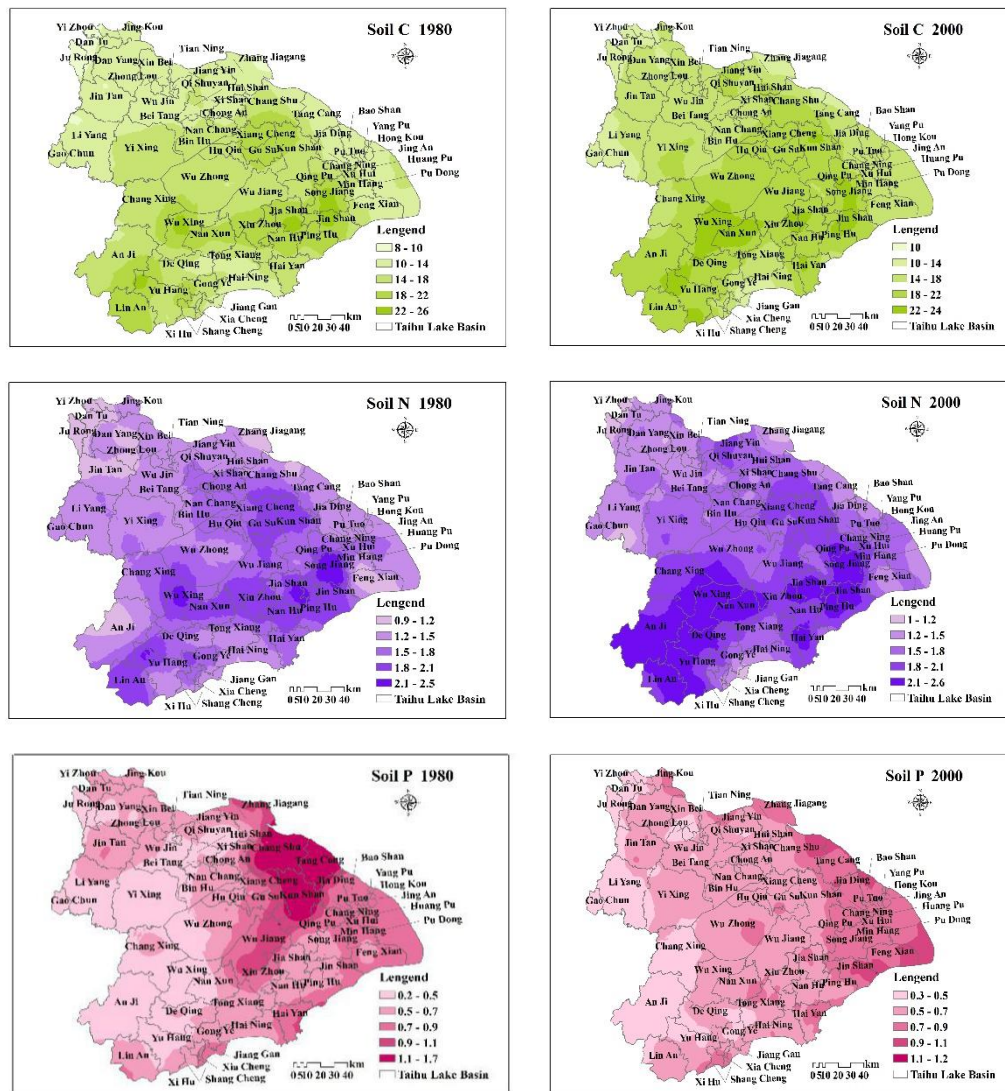


Figure S1. Temporal and spatial distribution of top soil C, N and P in 1980s and 2000s, respectively, in Taihu Lake basin.

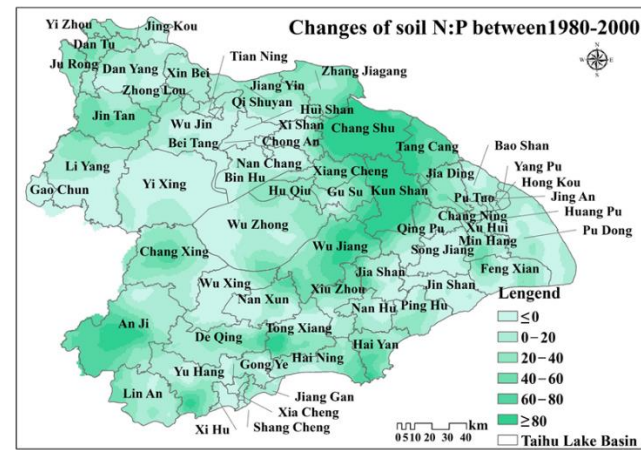
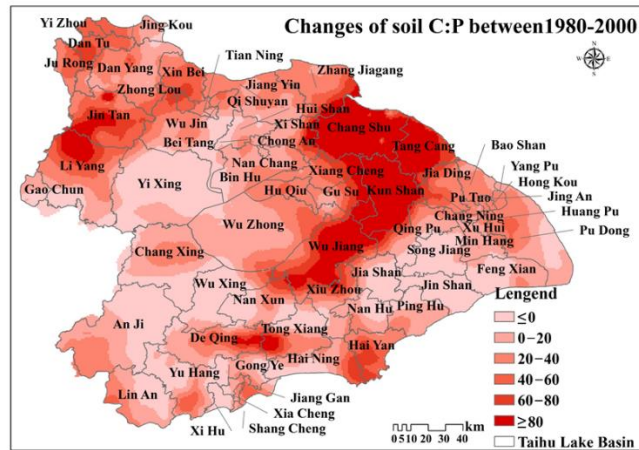
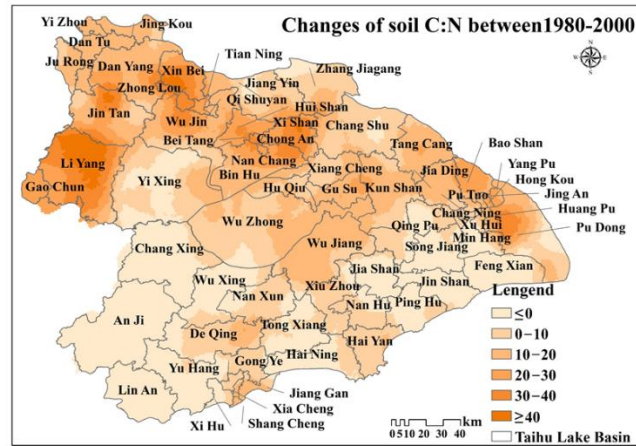


Figure S2. Changes of top soil C:N, C:P and N:P ratio between 1980s and 2000s in Taihu Lake basin. The expression unit of the changes is “%”.