
Table S1: Transition matrix of Dongting Lake wetland landscape area from 1991 to 2022 (km²).

time interval	landscape type	mudflat	water	reed	sedge	woodland	total
1991-2001	mudflat	13.05	5.25	5.24	6.98	0.49	31.01
	reed	2.56	68.10	19.38	1.34	1.2	92.65
	sedge	2.14	30.74	27.20	1.64	1.25	62.96
	water	15.18	2.29	1.71	71.19	0.31	90.69
	woodland	1.55	4.68	4.53	3.03	2.18	15.96
	total	34.48	111.07	58.06	84.17	5.50	293.28
2001-2004	mudflat	43.26	17.77	19.77	16.40	17.74	114.93
	reed	7.33	247.97	87.16	1.40	26.37	370.23
	sedge	2.43	54.83	114.20	1.17	20.92	193.54
	water	30.20	6.69	8.58	213.80	21.29	280.56
	woodland	0.28	3.70	6.80	0.36	7.21	18.35
	total	83.50	330.95	236.51	233.1	93.53	977.61
2004-2022	mudflat	3.32	5.86	1.68	2.57	0.48	13.92
	reed	0.98	6.29	31.86	10.96	5.08	55.16
	sedge	0.40	4.16	8.56	23.29	3.00	39.42
	water	5.96	30.16	1.38	0.97	0.37	38.85
	woodland	0.65	4.28	3.99	5.20	1.46	15.59
	total	11.32	50.75	47.47	43.00	10.39	162.93
