

Table S1. Accuracy assessment of land cover classification from 2000 to 2020

Land cover		1	2	3	4	5	6	7	UA(%)	PA(%)	OA(%)
2000	1	86	3	0	2	1	0	1	92.47	89.58	90.58
	2	1	73	0	0	0	0	2	96.05	81.11	
	3	0	0	70	0	0	5	0	93.33	98.59	
	4	3	0	0	143	2	0	6	92.86	91.67	
	5	0	0	0	8	74	4	0	86.05	92.50	
	6	0	0	1	2	3	56	0	90.32	84.85	
	7	6	14	0	1	0	1	133	85.81	93.66	
2010	1	112	0	0	0	0	0	0	100.00	92.56	94.66
	2	3	76	0	0	0	1	2	92.68	93.83	
	3	0	0	78	0	0	6	0	92.86	100.00	
	4	0	0	0	153	0	0	4	97.45	97.45	
	5	0	0	0	2	74	2	1	93.67	98.67	
	6	0	1	0	0	1	70	4	92.11	88.61	
	7	6	4	0	2	0	0	129	91.49	92.14	
2020	1	93	0	0	1	0	0	0	98.94	94.90	94.40
	2	0	75	0	0	0	0	1	98.68	93.75	
	3	0	0	68	0	0	7	0	90.67	97.14	
	4	0	0	0	152	2	1	0	98.06	96.20	
	5	0	0	0	4	63	2	2	88.73	90.00	
	6	0	2	2	0	4	74	1	89.16	88.10	
	7	5	3	0	1	1	0	133	93.00	97.08	

Note: 1: Water; 2: Urban land; 3: Glaciers/permanent snow; 4: Forestland; 5: Grassland; 6: Barren land; 7: Cropland.