

Supporting information

Table S1 Soil properties of soils belong to three different land use types, agricultural-pastoral interlaced land (Tongliao, TL), crop land (Siping, SP), and artificial economic forest land (Yanji, YJ).

	WSOC*	MBC	TN*	pH	NH ₄ -N*	NO ₃ -N*	clay	silt	sand	Classification
	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	g/100g	g/100g	g/100g	(USDA)
TL-1	10.0	17.3	19.3	7.85	0.44	0.84	3.44	5.65	90.91	sandy soil
TL-2	34.4	22.3	40.7	8.49	0.56	2.39	4.73	13.55	81.72	loamy sand soil
TL-3	40.5	72.5	53.3	8.44	0.79	4.92	7.00	28.18	64.82	sandy loam soil
TL-4	14.2	32.1	34.7	8.35	0.25	3.15	5.29	23.41	71.30	sandy loam soil
TL-5	10.1	13.0	29.5	8.57	0.42	2.08	5.59	30.36	64.05	sandy loam soil
TL-6	22.3	10.3	16.1	8.33	0.39	0.89	4.57	22.15	73.28	sandy loam soil
TL-7	20.2	9.64	17.5	8.55	0.48	0.80	3.44	8.37	88.19	sandy soil
TL-8	10.1	10.0	22.3	8.01	1.23	1.11	3.44	0.46	96.10	sandy soil
SP-1	14.2	62.1	43.7	7.58	0.22	4.17	14.85	76.04	9.11	silty loam soil
SP-2	24.3	129.2	100.4	8.02	0.81	11.80	15.88	74.97	9.15	silty loam soil
SP-3	38.5	161.7	116.4	8.03	1.18	15.48	13.53	76.58	9.89	silty loam soil
SP-4	32.4	83.7	56.5	7.87	0.30	5.81	12.26	77.23	10.52	silty loam soil
SP-5	24.3	104.5	65.3	7.31	0.40	5.90	13.88	76.43	9.69	silty loam soil
SP-6	28.4	92.3	96.4	6.78	1.36	9.45	13.55	75.95	10.50	silty loam soil
YJ-1	83.1	51.1	15.1	6.34	2.99	2.57	21.34	72.29	6.36	silty loam soil
YJ-2	109.4	61.2	41.2	5.64	9.87	35.67	21.17	72.39	6.43	silty loam soil
YJ-3	135.6	46.9	16.1	6.88	1.32	4.48	15.11	74.56	10.34	silty loam soil
YJ-4	113.7	44.2	18.4	6.80	1.88	7.08	17.68	72.52	9.80	silty loam soil
YJ-5	65.6	48.9	14.8	6.86	2.99	3.56	10.18	62.40	27.42	silty loam soil
YJ-6	91.9	111.3	17.4	5.87	7.14	7.39	14.22	74.76	11.02	silty loam soil

*those soil properties were determined based on water soluble fractions (water to soil, 2:1).

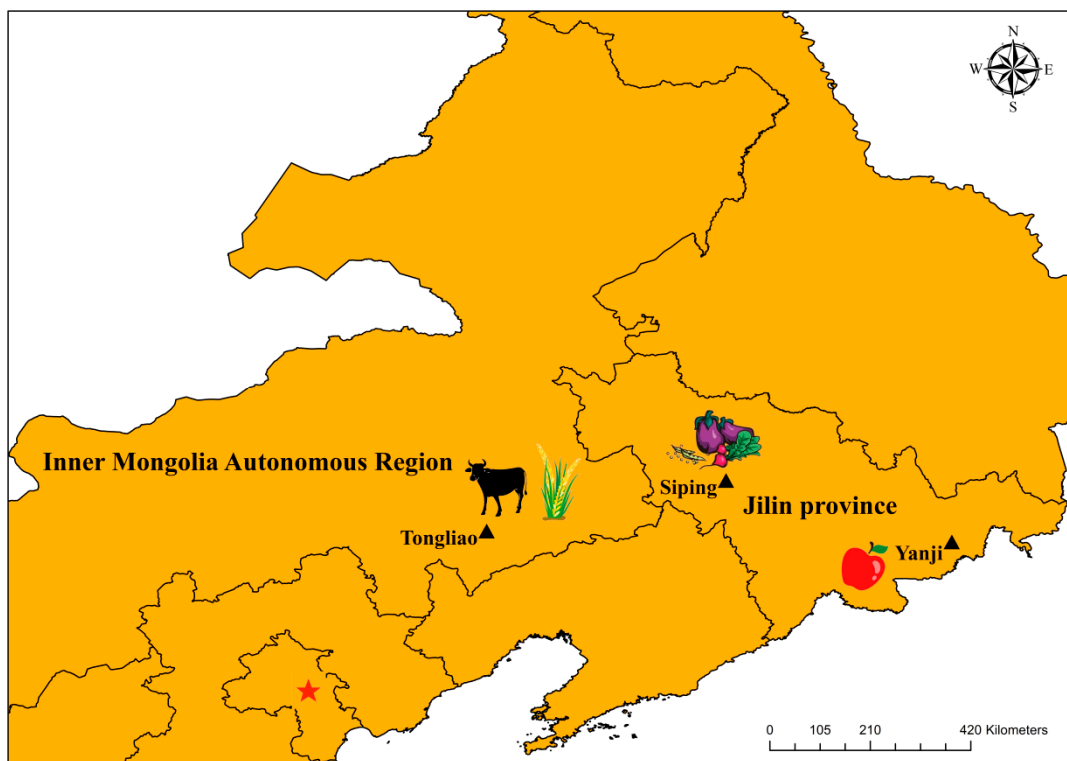


Fig. S1 Sampling map of soil samples from three different land use types, agricultural-pastoral interlaced land (Tongliao, TL), crop land (Siping, SP), and artificial economic forest land (Yanji, YJ).