

附录 1 古尔班通古特沙漠样点地理、气候和土壤理化特性

Appendix 1 Geographic, climate, soil physicochemical properties of sampling sites in the Gurbantunggut Desert

站点 Site	彩南西 CNW	彩南北 CNN	一站 YZ	石西南 SXS	石西东 SXE
经度 Longitude (E)	88.13°	88.50°	87.60°	86.74°	87.10°
纬度 Latitude (N)	44.91°	45.26°	45.24°	45.15°	45.41°
年均温 MAT (°C)	22.00	21.00	20.00	19.00	19.00
Mean annual temperature					
年均降水量 MAP (mm)	232.30	221.30	204.30	190.20	181.00
Mean annual precipitation					
土壤含水率 SMC (%)	2.6 ± 0.1 ^a	0.3 ± 0.01 ^b	0.4 ± 0.01 ^b	0.4 ± 0.01 ^b	0.3 ± 0.01 ^b
酸碱度 pH	7.65 ± 0.05 ^b	7.74 ± 0.07 ^b	7.65 ± 0.14 ^b	8.00 ± 0.04 ^a	7.79 ± 0.05 ^{a,b}
电导率 EC (μS/cm)	99.96 ± 9.08 ^a	95.27 ± 5.21 ^a	129.2 ± 12.20 ^a	99.92 ± 10.10 ^a	98.42 ± 6.75 ^a
总碳 TC (g/kg)	2.17 ± 0.15 ^a	1.14 ± 0.11 ^b	1.21 ± 0.24 ^b	2.50 ± 0.22 ^a	2.01 ± 0.12 ^a
总有机碳 TOC (g/kg)	0.68 ± 0.10 ^a	0.70 ± 0.08 ^a	0.49 ± 0.05 ^a	0.92 ± 0.19 ^a	0.53 ± 0.10 ^a
总氮 TN (mg/kg)	53.71 ± 4.16 ^a	50.59 ± 7.63 ^b	66.23 ± 2.34 ^a	39.58 ± 5.73 ^b	49.68 ± 3.47 ^b
铵态氮 NH ₄ ⁺ -N (mg/kg)	6.91 ± 0.85 ^a	6.91 ± 5.16 ^a	7.25 ± 1.96 ^a	6.10 ± 2.58 ^a	7.392 ± 1.96 ^a
硝态氮 NO ₃ ⁻ -N (mg/kg)	10.21 ± 2.96 ^b	12.33 ± 2.84 ^a	14.93 ± 1.46 ^b	9.46 ± 1.53 ^b	10.10 ± 2.22 ^b
总磷 TP (mg/kg)	65.31 ± 5.30 ^a	69.03 ± 6.68 ^a	53.13 ± 6.34 ^{a,b}	44.32 ± 4.91 ^b	66.28 ± 8.19 ^a
速效磷 AP (mg/kg)	0.02 ± 0.001 ^b	0.176 ± 0.001 ^b	0.030 ± 0.001 ^a	0.016 ± 0.001 ^b	0.018 ± 0.002 ^b

各数值为算术平均值 ± 标准误。同一排不同字母表示各参数在 $P < 0.05$ 水平上差异显著。

Values given are arithmetic mean ± standard error. Different letters in the same row indicate that parameters show significant differences at $P < 0.05$ level.