Table 1 Hydrological parameters and area variability of Nam Co Lake

Lake area (km^2)●	lake area (km^2)●	lake area (km^2)▲	lake area (km^2)*	lake area (km^2)*	Variation (%)
1941.3	1933.7	1962.8	1981.0	1993.1	1.96
1970	1976	1991	2000	2006	

● from China Lake Database, 1998; ▲ from Landsat-TM images; * imagery from CBERS-1 and CBERS-2.

Table 2 Change point (Y) determined by Mann-Kendall test of abrupt change and slope (β) in upward trends of temperature (T in ℃), precipitation (P in mm), evaporation (E in mm) and discharge (Q in m^3/s) with confidence levels (α)

β/α	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
T	0.075*	0.075*	0.071*	NT	NT	NT	NT	NT	NT	0.042+	0.075*	0.071*	0.038*
Y	1970	1966	1972	NT	NT	NT	NT	NT	NT	1982	1973	1967	1983
P	0.031+	0.024+	NT	0.107+	0.654+	NT	NT	NT	0.500+	NT	NT	NT	2.40*
Y	1997	1967	NT	1976	1981	NT	NT	NT	1979	NT	NT	NT	1969
Ea	NT	NT	NT	NT	NT	-1.27+	-0.60+	NT	-0.78+	NT	NT	NT	-5.21+
Y	NT	NT	NT	NT	NT	2000	2000	NT	1995	NT	NT	NT	1996
Q	0.070*	0.080*	0.078*	0.103+	NT	NT	NT	NT	1.31*	NT	NT	0.072+	0.331+
Y	1983	1985	1985	1996	NT	NT	NT	NT	1996	NT	NT	1996	1997

T and P are air temperatures and precipitation, respectively at BG station from 1956 to 2005; Q are monthly discharges from 1976 to 2005; * and + indicate the statistical significance α at 0.01 and 0.05 respectively; NT indicates no trend; Y is the detected year of the change point.