

Supplementary Information

Table S1. Environmental variables summarized as the mean values and ranges in Lake Chaohu during bloom from June to October 2012.

Parameter	June	July	August	September	October
TN (mg L ⁻¹)	2.22 (1.15–5.09)	1.83 (0.65–3.59)	1.25 (0.56–3.03)	1.45 (0.63–3.67)	1.57 (0.80–3.49)
NH ₄ ⁺ -N (mg L ⁻¹)	0.70 (0.21–3.55)	0.22 (0.06–0.49)	0.20 (0.06–0.65)	0.21 (0.04–1.16)	0.15 (0.11–0.19)
NO ₃ ⁻ -N (mg L ⁻¹)	0.28 (0.21–0.38)	0.24 (0.06–0.70)	0.11 (0.08–0.23)	0.22 (0.08–0.61)	0.17 (0.07–0.49)
NO ₂ ⁻ -N (mg L ⁻¹)	0.06 (0.01–0.18)	0.06 (0.00–0.37)	0.01 (0.00–0.07)	0.02 (0.00–0.12)	0.01 (0.00–0.07)
TP (mg L ⁻¹)	0.13 (0.04–0.39)	0.13 (0.04–0.24)	0.09 (0.03–0.22)	0.12 (0.04–0.27)	0.15 (0.04–0.28)
PO ₄ ³⁻ -P (mg L ⁻¹)	0.04 (0.00–0.26)	0.01 (0.00–0.03)	0.01 (0.00–0.02)	0.03 (0.00–0.12)	0.03 (0.00–0.52)
DIC (mg L ⁻¹)	14.39 (11.66–17.28)	13.69 (9.64–15.00)	12.58 (8.74–15.67)	13.38 (10.04–17.71)	14.42 (11.94–16.22)
DOC (mg L ⁻¹)	5.14 (4.53–7.46)	5.10 (4.48–5.70)	4.50 (4.07–4.97)	5.45 (4.64–6.72)	4.50 (3.99–5.19)
Chl-a (µg L ⁻¹)	23.73 (10.04–52.45)	30.07 (5.70–89.40)	42.61 (6.19–89.06)	18.78 (5.86–32.14)	21.76 (6.64–53.57)
Water temperature (°C)	27.43 (26.21–28.12)	27.68 (26.30–29.28)	30.18 (29.48–30.75)	22.63 (22.11–23.63)	18.77 (18.43–19.45)
pH	8.29 (7.42–8.74)	8.69 (8.50–8.84)	9.13 (8.70–9.40)	6.29 (5.22–6.74)	5.71 (4.73–6.37)
DO (mg L ⁻¹)	8.97 (4.60–10.11)	8.70 (5.17–10.08)	6.18 (4.47–7.64)	9.41 (8.33–10.53)	10.67 (4.79–14.97)
Secchi depth (m)	0.36 (0.25–0.45)	0.28 (0.20–0.42)	0.57 (0.20–0.90)	0.43 (0.30–0.65)	0.30 (0.15–0.55)
Water depth (m)	2.86 (1.90–3.40)	3.50 (2.40–4.20)	3.88 (2.70–4.50)	4.00 (2.60–4.50)	3.66 (2.90–4.30)
Conductivity (µS cm ⁻¹)	348.78 (283.00–392.00)	317.20 (294.00–344.00)	303.33 (240.00–340.00)	280.48 (213.00–351.00)	282.44 (223.00–329.00)