



Interannual and seasonal shift between *Microcystis* and *Dolichospermum*: A 7-year investigation in Lake Chaohu, China

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Figure S1. Long-term trends in total phosphorus (TP), total nitrogen (TN), orthophosphate (PO4), ammonium (NH4), nitrate + nitrite (NOx) and transparency (SD) in the three lake regions of Lake Chaohu from 2012 to 2018. The solid lines represent the regression lines fitted with the LOESS.



Figure S2. Relationships between total phosphorus and *Microcystis* biomass depending on total nitrogen and temperature, which was divided into three segments on average of the data numbers with 30% overlap. The red and blue lines represent the loess and linear fits, respectively. The parameters of linear fit were shown in each panel.



Figure S3. Relationships between total nitrogen and *Microcystis* biomass depending on total phosphorus and temperature, which was divided into three segments on average of the data numbers with 30% overlap. The red and blue lines represent the loess and linear fits, respectively. The parameters of linear fit were shown in each panel.



Figure S4. Relationships between total phosphorus and *Dolichospermum* biomass depending on total nitrogen and temperature, which was divided into three segments on average of the data numbers with 30% overlap. The red and blue lines represent the loess and linear fits, respectively. The parameters of linear fit were shown in each panel.



Figure S5. Relationships between total nitrogen and *Dolichospermum* biomass depending on total phosphorus and temperature, which was divided into three segments on average of the data numbers with 30% overlap. The red and blue lines represent the loess and linear fits, respectively. The parameters of linear fit were shown in each panel.