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SUPPLEMENTARY MATERIAL

Phytoplankton-zooplankton coupling in a cascade of hypertrophic fishponds

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Tab. S1. Spearman rank order correlations table. Values in **bold** represent significant relation between two variables, variables in *italics* were used in multivariate analysis.

| | Temp | DO | pH | Cond | Trans | TN | TP | Fe | COD | BOD | P-PO ₄ | Cl | ANC | Ca | DIN | Chla |
|-------------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|-------------------|-------------|--------------|-------|--------------|------|
| Temp | 1.00 | | | | | | | | | | | | | | | |
| DO | -0.61 | 1.00 | | | | | | | | | | | | | | |
| pH | -0.35 | 0.60 | 1.00 | | | | | | | | | | | | | |
| Cond | -0.33 | 0.36 | -0.12 | 1.00 | | | | | | | | | | | | |
| Trans | -0.57 | 0.60 | 0.35 | 0.19 | 1.00 | | | | | | | | | | | |
| TN | -0.36 | 0.32 | 0.10 | 0.43 | -0.01 | 1.00 | | | | | | | | | | |
| TP | 0.42 | -0.32 | -0.22 | -0.01 | -0.15 | -0.27 | 1.00 | | | | | | | | | |
| Fe | 0.45 | -0.66 | -0.57 | -0.04 | -0.49 | 0.08 | 0.26 | 1.00 | | | | | | | | |
| COD | 0.17 | -0.59 | -0.61 | 0.18 | -0.48 | 0.06 | 0.19 | 0.73 | 1.00 | | | | | | | |
| BOD | 0.11 | -0.32 | -0.01 | 0.05 | -0.54 | 0.02 | -0.10 | -0.01 | 0.49 | 1.00 | | | | | | |
| P-PO ₄ | 0.28 | -0.40 | -0.33 | -0.18 | 0.17 | -0.34 | 0.41 | 0.33 | 0.05 | -0.39 | 1.00 | | | | | |
| Cl | -0.13 | 0.04 | -0.24 | 0.66 | 0.00 | 0.30 | 0.30 | 0.21 | 0.45 | 0.06 | 0.11 | 1.00 | | | | |
| ANC | 0.41 | -0.59 | -0.61 | 0.15 | -0.68 | -0.09 | 0.18 | 0.76 | 0.74 | 0.44 | -0.05 | 0.25 | 1.00 | | | |
| Ca | -0.25 | 0.25 | -0.29 | 0.82 | -0.04 | 0.43 | -0.15 | 0.14 | 0.36 | 0.21 | -0.34 | 0.60 | 0.36 | 1.00 | | |
| DIN | -0.43 | 0.39 | 0.34 | 0.11 | 0.48 | 0.38 | -0.34 | -0.21 | -0.47 | -0.30 | 0.10 | -0.10 | -0.64 | -0.03 | 1.00 | |
| Chla | 0.21 | -0.52 | -0.31 | -0.05 | -0.65 | 0.05 | -0.19 | 0.28 | 0.59 | 0.80 | -0.26 | -0.03 | 0.58 | 0.14 | -0.39 | 1.00 |

Temp, temperature; DO, dissolved oxygen concentration; Cond, conductivity; Trans, transparency; TN, total nitrogen; TP, total phosphorus; Fe, iron concentration; COD, chemical oxygen demand; BOD, biological oxygen demand; P-PO₄, phosphate; Cl, chlorides; ANC, acid neutralization capacity; Ca, calcium; DIN, dissolved inorganic nitrogen; Chla, chlorophyll-*a* concentration.

Fig. S1. Co-correspondence analysis: position of fishponds (samples) based on phytoplankton taxa. B1, diamonds; B2, squares; B3, circles; sample codes are abbreviated as “fishpond-year-month-day”, e.g., B1-17-07-02 is the sample from the B1 fishpond from July 2017.

