Appendix S3. Principal component analysis (PCA) plots for specimens and species within the four genera: *Gomphonema* (A), *Luticola* (B), *Cymbella* (C), and *Gyrosigma* (D).

B

Luticola PCA

PC2
27.5%

PC1
47.2%

Luyel

Lukat
Lucro
Lusap

Lumur

Lugro

Eigenvalues

C

PC2
14.7%

Cyasp
Cyneu

Cycym

Cypar

PC1
52.2%

Cyexc

Eigenvalues

Cymbella PCA

D

Gyrosigma PCA