

Cladocera responses to ~200-year history of environmental stressors on Rideau Canal (Ontario, Canada) lakes

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Tab. S1. Historic and current total phosphorus (TP) water chemistry shown for all of the study lakes taken before and after the previously published records in Christie and Smol (1996), Karst and Smol (2000), and Forrest *et al.* (2002) with the current data presented in Balasubramaniam *et al.* (2025). Note that the TP for Indian L. was not available for the earlier time period.

Lake	Historic TP ($\mu\text{g L}^{-1}$)	Current TP ($\mu\text{g L}^{-1}$)
Big Rideau L.	1981-1987 = 19.4	2002-2019 = 10
Indian L.	NA	2002-2019 = 12.4
Upper Rideau L.	1981-1987 = 30.2	2004-2020 = 12.8
Lower Rideau L.	1982-1988 = 36.6	2002-2019 = 21.4
L. Opinicon*	1971-1988 = 22.9	2002-2019 = 14.1
Otter L. (CR)	1975-1999 = 13.7	2002-2017 = 8.9

CR, canal reference lake. *See Graves *et al.* (2024).

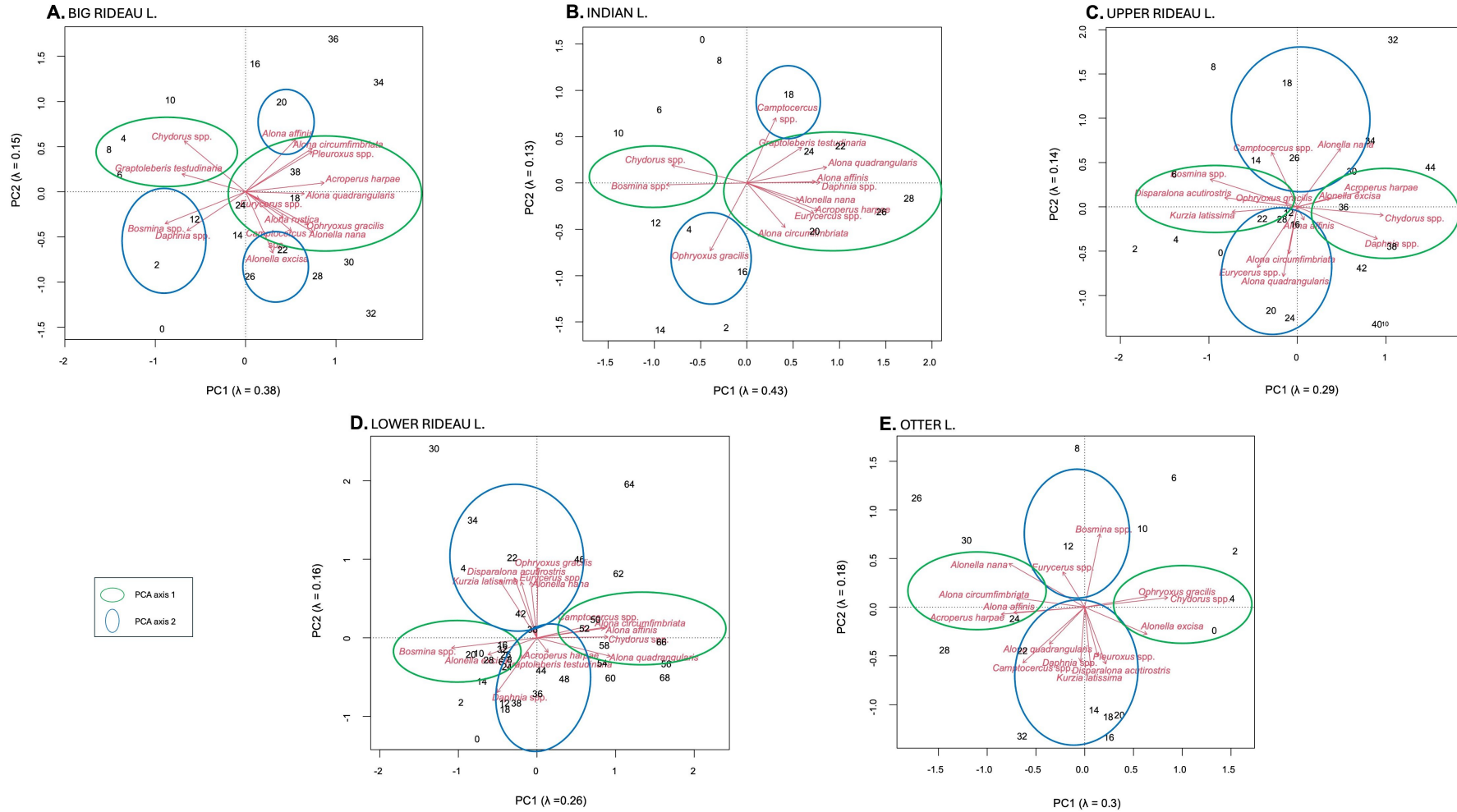


Fig. S1. Principal component analysis (PCA) biplots of axis one (PC1) and two (PC2) based on cladoceran relative abundances showing core samples (numbers as depth, cm) and species (arrows) in **(A)** Big Rideau L., **(B)** Indian L., **(C)** Upper Rideau L., **(D)** Lower Rideau L., and **(E)** the canal reference lake Otter L. The green circles correspond to cladoceran taxa associated with PCA axis 1 and the blue circles correspond to cladoceran taxa associated with PCA axis 2.