

Supplementary Materials

Table S1. Morphometric features of the studied lakes.

	Harvested Lakes			Undisturbed Lakes		
	L26	L39	L42	L20	L38	L80
Longitude	92°12'27"	92°12'49"	92°12'44"	92°12'22"	92°12'56"	92°13'34"
Latitude	49°07'58"	49°07'30"	49°07'16"	49°08'05"	49°07'30"	49°07'52"
Max depth (m)	37	23	18	32	3	13
Mean depth (m)	11.8	8.8	6.4	10.9	2.0	4.4
Lake perimeter (km)	2.5	3.4	3.2	7.5	3.1	4.8
Lake volume (10 ⁶ m ³)	4.08	4.64	2.15	9.84	0.45	2.42
Lake elevation (m)	420	439	440	417	435	411
Lake order	1	2	1	3	3	1
Upstream lakes	None	L42	None	L26	L42, L39	None
Lake surface (ha)	29	39	26	64	18	55
Drainage basin (ha)	106	194	70	532	326	300
Water renewal time (years ⁻¹)	13.1	8.2	10.5	6.3	<1	2.2

Table S2. Water characteristics of the studied lakes for the 1991–2003 survey. Mean ± SD (range).

	Harvested Lakes			Undisturbed Lakes		
	L26	L39	L42	L20	L38	L80
Alkalinity (mg L ⁻¹)	8.5 ± 0.4 (7.7–9.4)	6.1 ± 0.4 (5.4–6.9)	5.0 ± 0.3 (4.6–5.7)	6.1 ± 0.8 (3.9–7.0)	5.9 ± 0.7 (5.1–7.1)	14.7 ± 1.5 (11.9–17.0)
K (mg L ⁻¹)	0.31 ± 0.04 (0.22–0.37)	0.28 ± 0.08 (0.10–0.41)	0.27 ± 0.05 (0.14–0.34)	0.25 ± 0.05 (0.12–0.31)	0.27 ± 0.06 (0.16–0.35)	0.59 ± 0.05 (0.51–0.68)
Mg (mg L ⁻¹)	0.52 ± 0.05 (0.44–0.60)	0.42 ± 0.05 (0.35–0.52)	0.35 ± 0.03 (0.3–0.42)	0.43 ± 0.06 (0.28–0.52)	0.40 ± 0.06 (0.32–0.51)	0.85 ± 0.10 (0.72–1.03)
Ca (mg L ⁻¹)	2.3 ± 0.3 (1.9–2.8)	1.7 ± 0.3 (1.3–2.2)	1.3 ± 0.2 (1.0–1.7)	1.7 ± 0.3 (1.3–2.1)	1.5 ± 0.3 (0.9–1.9)	3.7 ± 0.4 (3.0–4.6)
Chl-a (µg L ⁻¹)	1.6 ± 0.4 (1.2–2.8)	2.2 ± 0.3 (1.7–2.8)	3.0 ± 0.6 (2.0–4.5)	1.9 ± 1.3 (1.2–5.9)	3.0 ± 1.0 (1.8–5.1)	5.1 ± 1.8 (2.9–9.0)
DOC (mg C L ⁻¹)	2.1 ± 0.2 (1.8–2.5)	2.4 ± 0.4 (1.9–3.0)	2.6 ± 0.3 (2.1–3.2)	3.8 ± 0.3 (3.0–4.1)	3.4 ± 0.5 (2.6–4.1)	4.5 ± 0.5 (3.6–5.2)
Secchi (m ⁻¹)	7.7 ± 0.2 (7.3–8.1)	6.8 ± 0.5 (6.1–7.6)	6.2 ± 0.4 (5.6–7.0)	4.9 ± 0.7 (3.8–6.1)	3.0 ± 0.4 (2.3–3.3)	3.5 ± 0.5 (2.8–4.4)
pH	6.6 ± 0.3 (6.0–7.1)	6.5 ± 0.3 (6.0–7.0)	6.4 ± 0.3 (5.9–6.9)	6.5 ± 0.3 (6.1–6.9)	6.6 ± 0.3 (6.0–7.0)	6.9 ± 0.3 (6.3–7.2)
TON (µg N L ⁻¹)	186 ± 41 (119–279)	192 ± 35 (124–260)	267 ± 36 (192–320)	205 ± 37 (102–262)	363 ± 141 (261–682)	402 ± 97 (277–612)
TP (µg P L ⁻¹)	8.8 ± 5.3 (3.1–22.5)	7.0 ± 3.2 (4.0–14.4)	10.4 ± 3.0 (5.0–15.8)	8.1 ± 6.6 (1.1–27.8)	10.5 ± 4.3 (4.6–16.7)	15.9 ± 7.6 (7.1–38.7)
SO ₄ (mg L ⁻¹)	2.6 ± 0.2 (2.4–2.8)	2.4 ± 0.2 (2.1–2.8)	2.5 ± 0.3 (2.1–3.1)	2.0 ± 0.4 (1.0–2.7)	2.2 ± 0.3 (1.8–2.5)	1.3 ± 0.2 (1.1–1.6)

Table S3. Mean abundance (Ind. L⁻¹ ± SD) and range (min–max) of total zooplankton and taxonomic groups in the two groups of lakes (harvested vs undisturbed) from 1991 to 2003.

Lake		Total	Rotifera	Cladocera	Calanoida	Cyclopoida
Harvested Lakes	L26	11.1 ± 1.6 (1.3–23.3)	1.8 ± 0.9 (0.3–4.9)	0.4 ± 0.1 (0.0–0.7)	2.8 ± 0.6 (0.4–5.6)	6.2 ± 1.5 (0.6–13.2)
	L39	20.1 ± 12.6 (4.0–43.1)	3.1 ± 2.4 (0.8–8.0)	0.5 ± 0.3 (0.1–1.2)	6.9 ± 4.7 (1.1–17.4)	9.6 ± 6.1 (1.3–19.2)
	L42	29.7 ± 22.1 (4.8–91.8)	8.7 ± 12.6 (1.7–47.0)	0.6 ± 0.3 (0.2–1.3)	10.1 ± 5.7 (1.1–21.6)	10.3 ± 5.9 (1.7–22.5)
Undisturbed Lakes	L20	7.7 ± 4.9 (0.7–17.1)	1.4 ± 1.0 (0.2–3.3)	0.4 ± 0.3 (0.0–1.0)	2.2 ± 1.5 (0.2–4.9)	3.6 ± 2.4 (0.3–7.9)
	L38	91.6 ± 52.5 (14.9–175.1)	41.7 ± 33.5 (4.4–106.3)	5.1 ± 3.2 (1.1–10.1)	26.2 ± 14.1 (4.1–46.7)	18.6 ± 13.0 (4.1–42.0)
	L80	43.2 ± 26.6 (4.9–90.3)	19.6 ± 19.9 (0.8–59.7)	3.3 ± 1.7 (0.6–7.3)	5.0 ± 5.0 (0.4–19.6)	15.2 ± 7.5 (2.3–34.3)

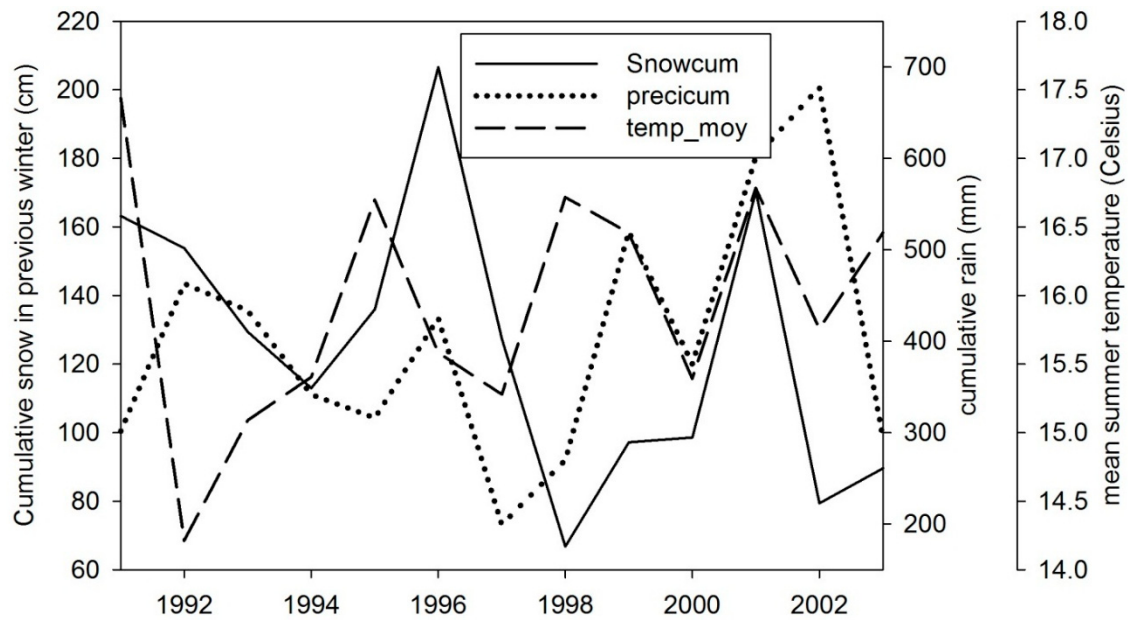


Figure S1. Climatic conditions from 1991–2003 at regional scale. Snowcum = cumulative snow in the previous winter (cm), precicum = cumulative rain (mm) during the current growth season, temp_moy = mean air temperature during the current growth season.

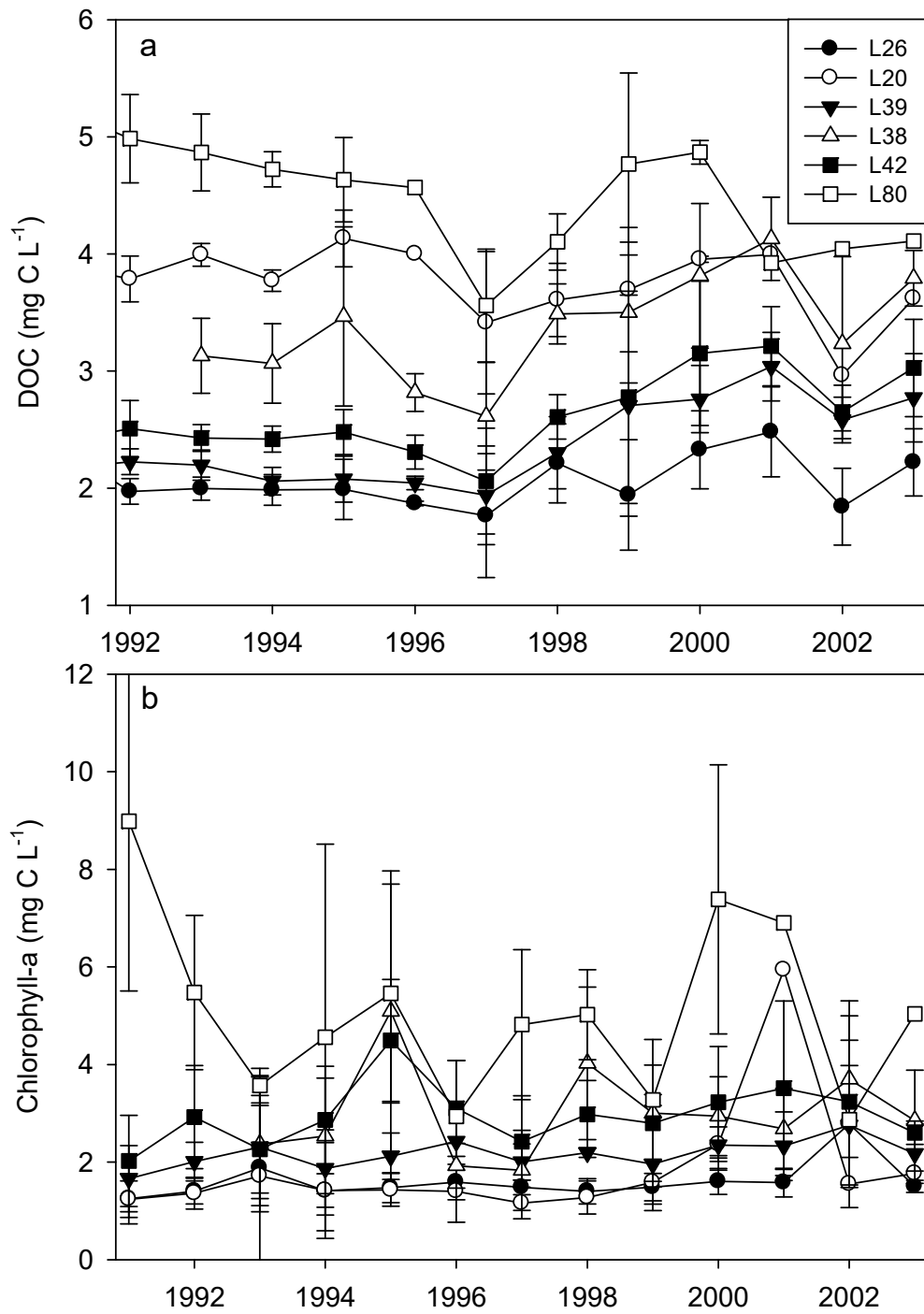


Figure S2. (a) DOC (top panel) and (b) chlorophyll-a (bottom panel) concentrations in the six studied lakes from 1991 to 2003. White symbols (undisturbed lakes), dark symbols (harvested lakes).