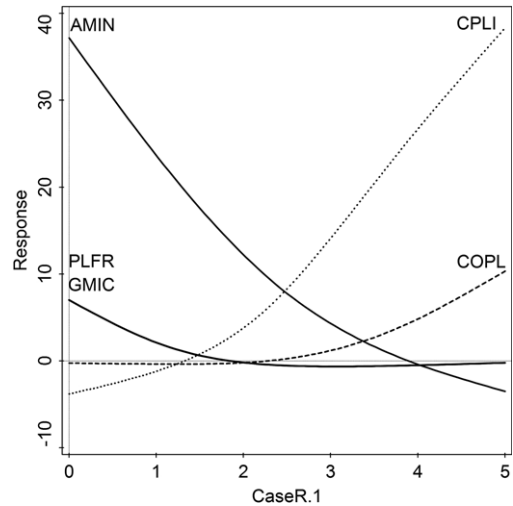**On-line Suppl. Tab. 1.** Correlation coefficients of the selected variables and the two detrended correspondence analysis (DCA) axes.

	Temperature	Conductivity	Oxygen	Water hardness	Nitrates	Orthophosphates
DCA 1	**0.7689**	**0.5496**	**−0.5860**	**−0.5148**	0.2394	−0.2019
DCA 2	0.0077	0.4476	−0.0250	−0.2071	**0.2654**	**−0.6264**

On-line Suppl. Tab. 2. Mean values of diatom indices of the Mlava River.

Index	April	July	September
IPS	17.22	17.62	18.04
EPI-D	15.72	16.12	16.72
CEE	16.4	17.58	17.6
IBD	18.72	19.04	19.12
TDI	60.3	60.04	55.66
SLA	13.4	13.26	13.46
DESCY	16.52	17.9	18.06
IDAP	16.42	15.72	15.5
GENRE	14.4	13.66	13.58
SHE	15.32	15.14	15.14
WAT	17.44	17.22	15.98
DI-CH	14.88	15.2	15.84
IDP	14.24	13.02	12.92
LOBO	4.7	3.6	3.44
SID	14.08	14.78	15.04
TID	10.14	10.34	10.76
IDSE/5	4.134	4.146	4.222

On-line Suppl. Fig. 1. Species response curves for the selected species and the first detrended correspondence analysis (DCA) axis. AMIN − *Achnanthidium minutissimum*, PLFR − *Planothidium frequentissimum*, GMIC − *Gomphonema micropus*, CPLI − *Cocconeis placentula* var. *lineata*, COPL − *Cocconeis pseudolineata*.