

PERIOD: autumn-winter (grey) vs. spring-summer (yellow). Arrows indicate changes in temperature (T), nitrate (NO_3^-), sulfate (SO_4^{2-}), calcium (Ca^{2+}), and pH. In spring-summer, there is a decrease in NO_3^- and SO_4^{2-} , and an increase in T and Ca^{2+} .

GEOMORPHIC POND TYPE: in-channel vs. overflowing. Similar trends to the period section, with significant changes in NO_3^- , SO_4^{2-} , and T in overflowing ponds.

AGE OF THE POND SEQUENCE: young vs. moderate vs. old. The magnitude of changes increases with the age of the pond sequence. A dashed line indicates the water level 'in the pond' vs. 'below the ponds'.

Legend: Median of the percentage changes [%] between upstream river section and beaver pond or downstream river section: 0.1, 20, 40% (with sub-ticks at 10 and 30). Symbols: X (less than 0.1%), ↓ (decrease), ↑ (increase). A combined symbol (X ↓ ↑) indicates a difference significant only in the spring-summer period.