

Relationship between Phosphorus Distribution and Major Components in the Bottom Sediments of the Solina-Myczkowce Reservoirs – Lilianna Bartoszek, Janusz A. Tomaszek

Summary

The contents of total P and its bioavailable forms, as well as of Fe, Al, Mn, Ca, and OM in the bottom sediments of the Solina-Myczkowce (S-E Poland) cascade of reservoirs, are presented. Notwithstanding a relatively low calcium content, it is the apatite fraction that accounts for the largest share of total phosphorus in the shallower parts of the Solina and Myczkowce Reservoirs. In turn, while contents of iron and aluminium (and manganese in the Solina Reservoir) are high, the fraction containing non-apatite inorganic phosphorus accounts for the smallest portion of the total phosphorus in the bottom sediments of both reservoirs. Bottom sediments of the Solina Reservoir are also characterised by significant correlations between total phosphorus content and aluminium content. Otherwise, significant correlations are reported for only some of the stations at each of the reservoirs.