



Complex monitoring of surface water quality in a national observation network

V. Kodes (1), D. Leontovycova (1)

(1) Czech Hydrometeorological Institute, Department of Water Quality, Czech republic
(kodes@chmi.cz, leontovycova@chmi.cz)

An implementation of the Water Framework Directive in a field of water monitoring has been one of the major tasks conducted by the Czech Hydrometeorological Institute in the Czech republic. One of the prepared programs is a monitoring of a surface water chemical status. An existing monitoring program has been designed to monitor not only water but also several additional matrixes such as suspended sediments, sediments, biota and SPMD in selected locations. Such setup provides a possibility to assess an impact of wide range of pollution sources by detection of various pollutants with a different behavior in water environment. Advanced techniques of sampling have been introduced especially for suspended sediments and biota including passive sampling devices. Although this kind of monitoring goes beyond the requirements of the WFD and is expensive, the whole set of monitored matrixes gives a complex picture of an impact at given location representing a catchment and enables for a better assessment of existing pressures and definition of programs of measures.