

**INTERCALIBRATION IN THE SCOPE OF THE WATER FRAMEWORK
DIRECTIVE: STUDIES PERFORMED BY EUROPEAN UNION AND
RECOMMENDATIONS FOR TURKEY**

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EXPERTISE THESIS ABSTRACT

Following the publishing of Water Framework Directive in 2000, monitoring of aquatic ecosystems in Europe has been changed a lot. Directive requires monitoring of different biological groups in different water bodies which includes particular ecosystems. According to the Directive, in order to provide a comparability between monitoring results obtained for biological quality elements, results shall be given as Ecological Quality Ratios (EQR). Directive clearly indicates biological quality elements to be monitored, monitoring frequencies and properties of biological quality elements to be considered. However, the methodology to be used for sampling and analysis, the choice of indices which are utilized for the assessment of biological monitoring and boundary values of particular water quality classes that corresponds to EQRs have been left to the choice of member states. In order to provide comparable monitoring results between member states, an intercalibration exercise should be performed. In the context of this study, after the Water Framework Directive has come into force in 2000, all of the documents relevant to intercalibration have been covered, aim of the intercalibration exercise, fundamentals, developments and documents which have been published are explained. In the light of these information, studies which have been performed until now are considered. On the other side, studies executed by the intercalibration groups of which Turkey is possible to be involved in future are examined. In addition, recommendations are made by explaining the tasks to be possibly performed by Turkey in future.

Keywords: Biological Monitoring; Biological Quality Elements; Biological Monitoring; Biological Indices; Ecological Quality Ratio; Intercalibration; Class Boundary Level.