



The interaction between taxa metrics and environmental variables, as indicator of aquatic ecosystem state

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In the last period, the environmental changes are complex and sometimes with a high evolution speed. An enduring monitoring process, mainly in the sensitive areas, is a necessity. In the last years is investigated a direct link between the environmental stress and the biotic components 'answer for the considered ecosystem. It is decisive to understand which is the correlations, through space and time, between the physics and chemical measured indicators and the environmental variables. Also, it is necessary to underline the taxa's directly answer at the environmental variables changes. This could be used as an reliable instrument in the environment monitoring process

In this work, was evaluated the interaction between taxa metrics and the physics and chemical environmental variables for a series of three aquatic ecosystems from the eastern part of Romania at the border of the Danube Delta area. The approaching procedures is based on a multi-dimensional statistical analysis using the regression advance method and numerical assessments. The results are interesting and allow to succeed in reaching some assessments on the ecosystems 'equilibrium states.