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Stable isotopic compositions in the aquatic world

The stable isotope composition analyses of carbon and oxygen are commonly used in the study of environmental geochemistry. Among their wide application, there are more and more studies about different aquatic ecosystems and organisms living there. In those ecosystems, Charophytes and other aquatic plants occur. I will present results from my Ph.D. study on lake Charophytes and from a small research project on an aquatic vascular plant (*Stuckenia pectinata* L.) from a lake and brackish water of shallow bays of Baltic Sea. Those studies will be described in the context to stable isotope discriminations processes influencing the values of obtained results. Additionally, I will briefly demonstrate my further research plans.