Universität Stuttgart

Water Resources Engineering and Management

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Master Thesis Abstract

of Christina Rundel

Lake assessment in respect of nutrient observation and phosphorus input modelling for example lakes

My Master thesis deals with the evaluation of the trophy of lakes in Baden-Wuerttemberg. For four selected lakes, the reference and real state are assessed. A sensitivity analysis shows the robustness of the lake reference evaluation and the actual state assessment displays two approaches complementing each other. Since a too high phosphorus load is mainly the cause for a deviation of the actual lake condition from the reference state, this work compares models which determine where and how much phosphorus comes from the watershed. In their concepts, they show to be similar, and all are in general designed for surface waters. No special adaptions for lake catchments are found to be made when applying them. One of the models is applied on an example lake, but the validation of the results is difficult, as there are no closer investigations and measurements available within the catchment.