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Numerical simulation pollutant transport with LBM

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Numerical simulation is important at pollutants transport. In this research we will use the Lattice Boltzmann Method (LBM) modelling the pollutants transport in Tai Lake in China. The LBM has emerged as a powerful tool for simulating the behaviour of multi-component fluid systems in complex pore networks. We will build a quick response simulation system, which is base on the high resolution GIS figure, using the LBM numerical method. When we get the necessary parameter, we can use the system to predict the pollutants transport in the river and find out the pollutants spatial and temporal distribution in the pollution incidents. This is a powerful tool and method for water quality prediction, management and planning decisions.