Utilisation of mathematical models for river water quality management

University of Birmingham - and Water Quality Modeling of the Tigris River System in by Muhanned Al Murib

TABLE 4
Initial DO concentration at theoretical measuring points and set water quality standards

Checkpoint (load no)	DO concentration before treatment (mg/L)	Set DO (minimum) concentration standards (mg/L)	Treatment level proposed by the model (n)
1(1)	6.3037	6.5	3
2(2)	5.6001	6.5	2
3(3)	5.7112	6.5	1
4(-)	6.2175	6.5	0
5(4)	6.4520	6.5	1
6(5)	6.8318	6.5	1
7(6)	6.9171	6.5	1
8(7)	7.3052	6.5	1
9(8)	8.5483	6.5	1
10(9)	8.6213	6.5	1

Description: -
-utilisation of mathematical models for river water quality management
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Notes: Thesis (Ph.D)-University of Birmingham, Dept of Civil Engineering.
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Tags: #Top #12 #Best #Open #Source #Software #in #Water #Resources #— #Hatari #Labs

Top 12 Best Open Source Software in Water Resources — Hatari Labs

The Tigris-Tharthar canal, 75 km long, was constructed in 1956 to divert excess water from Samarra Barrage to Tharthar Lake and to prevent potential flooding in Baghdad. The amount of packages incorporated and also its condition of an open source code make it useful to explore the possibilities of modeling several types of problems including the addition of a reactive model.

Comprehensive River Water Quality Management by Simulation and Optimization Models

Waste load allocation for water quality management of a heavily polluted river using linear programming.

A mathematical model for pollution in a river and its remediation by aeration

Some canals were also constructed to divert excess fresh water from the mainstem of the river at Samarra Barrage located 125 km north upstream of Baghdad to Tharthar Lake, an artificial lake located 100 km northwest Baghdad city. QGIS is a completely open source alternative that reduces the cost barriers since it does not need a paid license and can be executed in any operative system.

Comprehensive River Water Quality Management by Simulation and Optimization Models

Interactive fuzzy optimization for an economic and environmental balance in a river system. The new data available, along with the appropriate integrated model, allow for the analysis of the NAC of the entire river.

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We present a simple mathematical model for river pollution and investigate the effect of aeration on the degradation of pollutant. Journal of Environmental Engineering, 130, 643—647.

The evolution and utilization of mathematical models for drying

To address this issue, CE-QUAL-W2 was used to develop a 2-D longitudinal and vertical hydrodynamic and water quality model of the mainstem Tigris River from Mosul Dam Rkm 0 to Kut Barrage Rkm 880. Model predictions of flow and water level were compared to field data at three stations along the mainstem of the Tigris River, including Baeji, downstream of Samarra Barrage, and Baghdad.

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