

2409

Lake & Reservoir Management I

WATER QUALITY MODEL FORMULATION

DESCRIPTION

PLAPIQUI has the following capabilities:

Formulation of dynamic mechanistic models for main biogeochemical variables based on mass balances.

Water quality sampling design for monitoring.

Ranking of model parameters through Dynamic Global Sensitivity Analysis.

Calibration to specific site conditions through Dynamic Parameter Estimation techniques.

Validation against field data.

Simulation of nutrients loading and climate change scenarios.

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