

Geophysical Research Abstracts,
Vol. 10, EGU2008-A-11499, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-11499
EGU General Assembly 2008
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Statistical parameterization of the dynamics of lake plankton populations

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The parameters of a dynamical system, proposed in previous studies to resolve plankton dynamics in a lake, are being determined indirectly, from characteristics of system dynamics, using statistical tools. The key issue, which eventually allows for an accurate estimation, is the separation of the strongly coupled components of the system from possible exogenous influences. An application to climate-induced defenses is presented.