

Package: streambugs (via r-universe)

August 26, 2024

Type Package

Title Parametric Ordinary Differential Equations Model of Growth, Death, and Respiration of Macroinvertebrate and Algae Taxa

Version 1.4

Date 2023-11-29

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Description Numerically solve and plot solutions of a parametric ordinary differential equations model of growth, death, and respiration of macroinvertebrate and algae taxa dependent on pre-defined environmental factors. The model (version 1.0) is introduced in Schuwirth, N. and Reichert, P., (2013) <DOI:10.1890/12-0591.1>. This package includes model extensions and the core functions introduced and used in Schuwirth, N. et al. (2016) <DOI:10.1111/1365-2435.12605>, Kattwinkel, M. et al. (2016) <DOI:10.1021/acs.est.5b04068>, Mondy, C. P., and Schuwirth, N. (2017) <DOI:10.1002/eap.1530>, and Paillex, A. et al. (2017) <DOI:10.1111/fwb.12927>.

URL <https://www.eawag.ch/en/departement/siam/projects/streambugs/>

BugReports <https://gitlab.com/NeleSchuwirth/streambugs/-/issues>

License GPL-3

Depends R (>= 3.5.0)

Imports deSolve (>= 1.20)

Suggests testthat

RoxygenNote 7.2.3

Encoding UTF-8

NeedsCompilation yes

SystemRequirements C99

Repository <https://nschuwirth.r-universe.dev>

RemoteUrl <https://gitlab.com/neleschuwirth/streambugs>

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RemoteRef HEAD

RemoteSha bb6c6e284366d9b41ac014da5af456d56ae58276