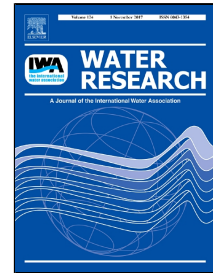


# Accepted Manuscript

The role of hydrodynamics in shaping the composition and architecture of epilithic biofilms in fluvial ecosystems



Ute Risse-Buhl, Christine Anlanger, Katalin Kalla, Thomas R. Neu, Christian Noss, Andreas Lorke, Markus Weitere

PII: S0043-1354(17)30815-1  
DOI: 10.1016/j.watres.2017.09.054  
Reference: WR 13248  
To appear in: *Water Research*  
Received Date: 10 June 2017  
Revised Date: 27 September 2017  
Accepted Date: 28 September 2017

Please cite this article as: Ute Risse-Buhl, Christine Anlanger, Katalin Kalla, Thomas R. Neu, Christian Noss, Andreas Lorke, Markus Weitere, The role of hydrodynamics in shaping the composition and architecture of epilithic biofilms in fluvial ecosystems, *Water Research* (2017), doi: 10.1016/j.watres.2017.09.054

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**1 Highlights**

- 2 • Demonstration of near bed hydrodynamics affecting biofilms in fluvial ecosystems.
- 3 • Near bed turbulence significantly affected biofilm composition and architecture.
- 4 • Effects were more pronounced under higher dissolved nutrient concentrations.
- 5 • Elongated ripples and streamers known from experimental systems were not observed.
- 6 • More compact biofilms spreading uniformly on mineral surfaces at high turbulence.

Download English Version:

<https://daneshyari.com/en/article/5759157>

Download Persian Version:

<https://daneshyari.com/article/5759157>

[Daneshyari.com](https://daneshyari.com)