CADDISFLY TRICHOPTERA DRIFT CHARACTERISATION IN THE DOMINATING HABITATS OF SMALL STREAMS IN LATVIA (PRELIMINARY RESULTS)

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MATERIAL AND METHODS

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Drift samples were taken at the end of September of 2006 in the three lowland streams (Koja – catchment's area 73.4 km², Gauja Rivers basin; Strikupe – catchment's area 85.94 km², Venta river basin; Tumsupe – catchment's area 106.4 km², Daugava River basin) in four times per day and night (00.00-00.30, 06.00-06.30, 12.00-12.30 and 18,00-18,30).

In the KOJA STREAM samples were taken downstream to the psammal habitat (1) and downstream to the CPOM - psammal habitats (2);

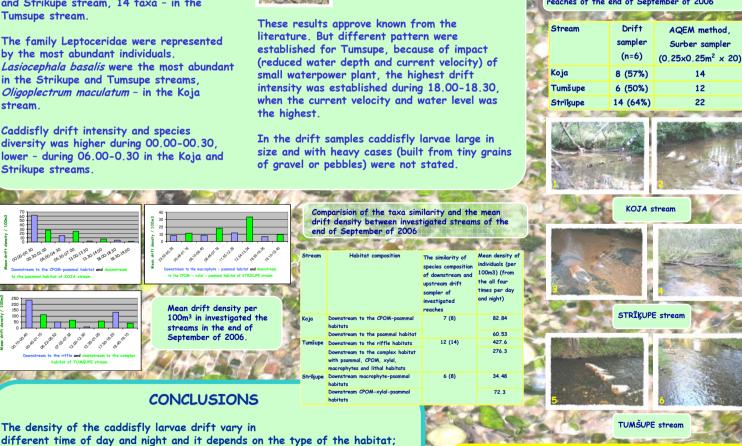
In the STRIKUPE STREAM - downstream to the macrophyte - psammal habitat (3) and to the CPOM - xylal - psammal habitat (4);

In the TUMSUPE STREAM - downstream to the riffle (5) and downstream to the complex habitat with psammal, CPOM, xylal, macrophytes and lithal microhabitats (6).

Samples were taken with six drift nets (frame size 0.25x0.25m²; mesh size 0.5mm) at the each investigated stream reach cross section. The current velocity was measured front of all drift nets.

Drift density were calculated by formula: (N)*(100)/(†)(W)(H)(V)(3600s/h) (Smock 1996)





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INTRODUCTION

The aim of this study was to investigate the impact of the current to the formation of the caddisfly communities in the small streams of Latvia



Sampling design (net frame size $0.25\times0.25\text{m};$ mesh size 0.5mm), n=6.

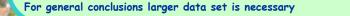
RESULTS

The caddisfly taxa diversity and abundance of individuals in the drift samples was low.

8 taxa were stated in both the Koja stream and Strikupe stream, 14 taxa - in the Tumsupe stream.

The family Leptoceridae were represented by the most abundant individuals. Lasiocephala basalis were the most abundant in the Strikupe and Tumsupe streams, Oligoplectrum maculatum - in the Koja stream

diversity was higher during 00.00-00.30, lower - during 06.00-0.30 in the Koja and Strikupe streams.



was similar:

samples

but the lowest - downstream macrophyte - psammal habitats;

The highest drift density and taxa diversity was characteristic for riffle,

The drift density downstream CPOM - psammal habitats in Koja and Strikupe

In the drift samples was found 50% from the taxa, comparing to the bottom