

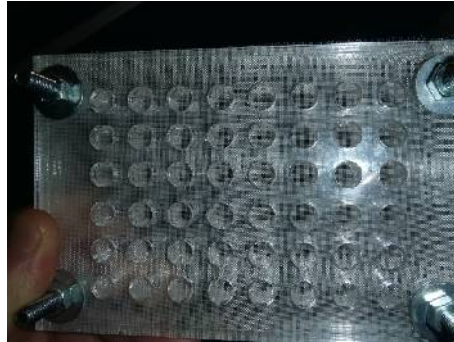
Renforcement des populations

- quelles zones pour les tests d'élevage in-situ ?
- quels systèmes d'élevage *in-situ* ?
- quel protocole ?

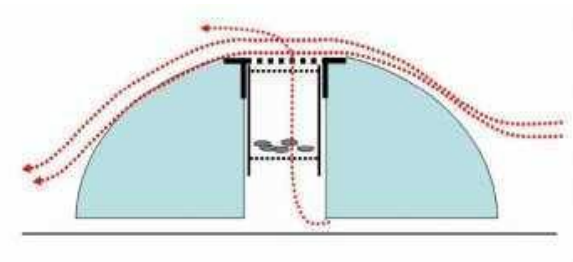
« Bigoudis »



Plaques « Buddensiek »



Silos à mulettes



Methods

Biomonitoring (May – June 2012):

In all of the six brooks a **70-day-biomonitoring** with juvenile freshwater pearl mussels took place.

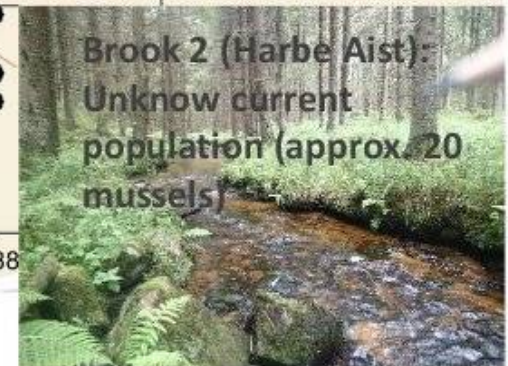
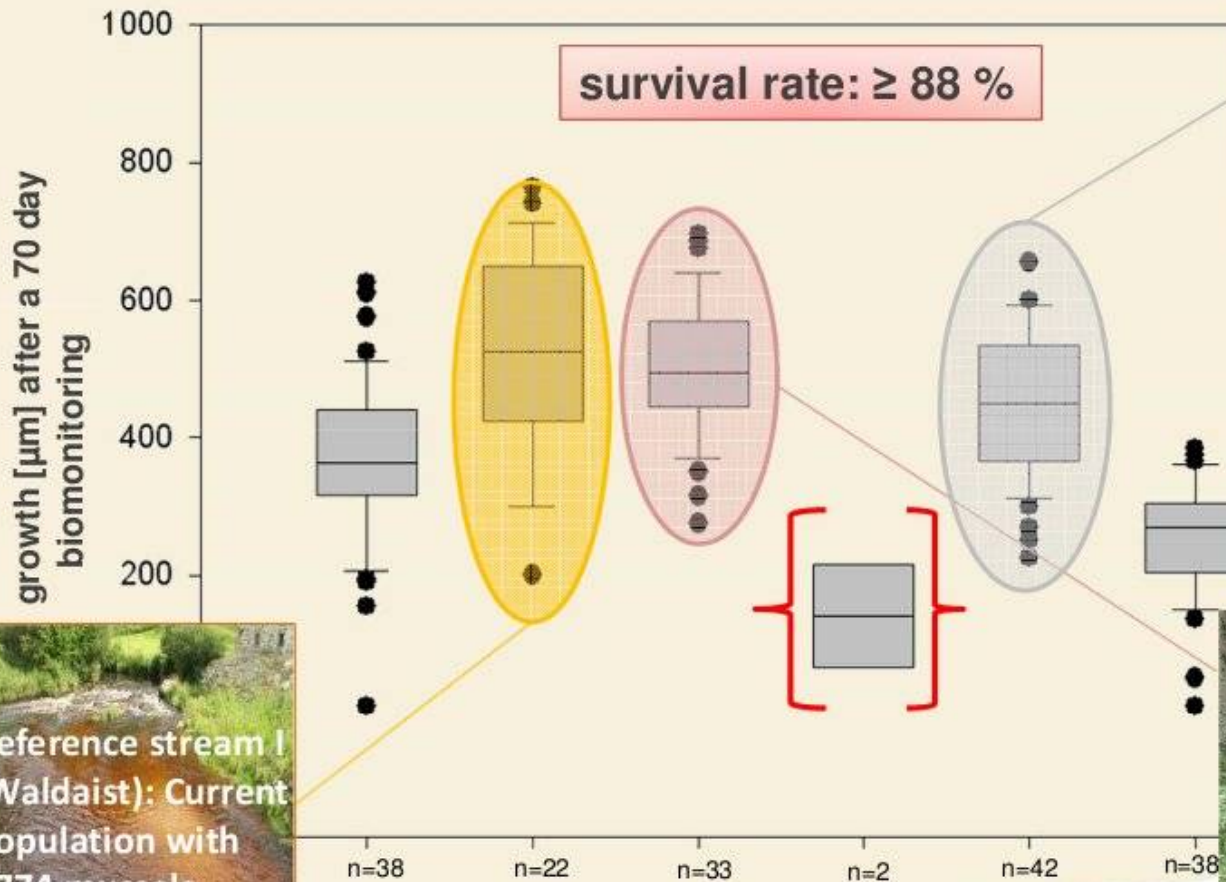
In every brook **one field cage with 40 juvenile** mussels was placed.

After the 70 days **growth and mortality rate** was checked.



Results

Biomonitoring:





Methods:



63 in-situ caging systems (each with 10 individually kept juvenile mussels, in their second growing season, 1mm+) distributed in three replicates at 21 sites of Blanice Zlatý potok and Teplá Vltava River basins (Czech Republic)

Summer season 2011 (June – August)



Postdoc CULS (ESF a MŠMT CZ.1.07/2.3.00/30.0040)

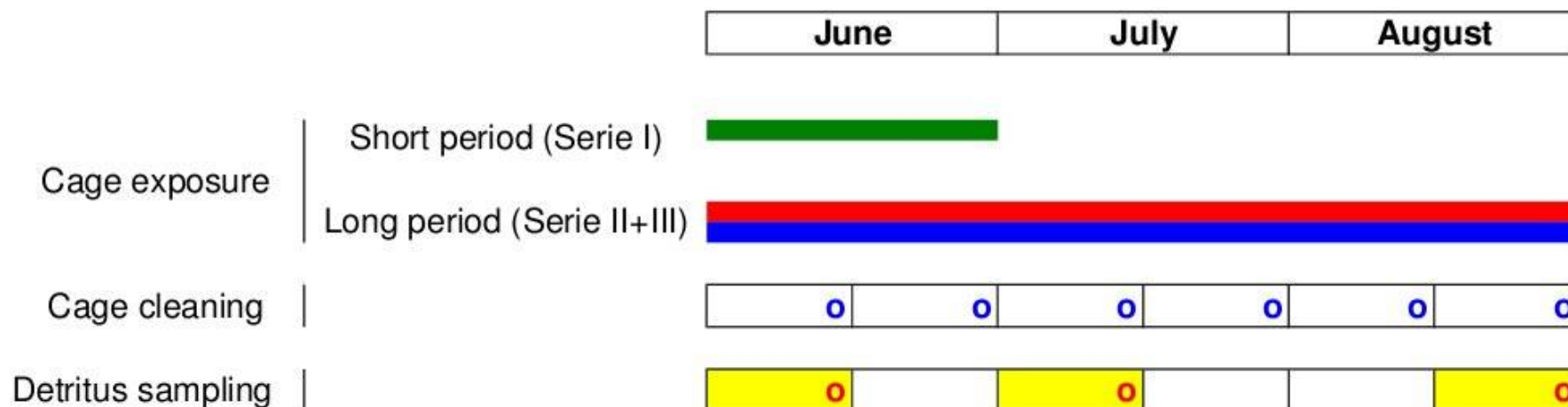


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Methods:



Exposure periods and data sampling scheme at Vltava River basin in 2011.



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Step1: Verification of methods in studied environment:

Recorded high survival rates of exposed juveniles (overall survival rate 82%) and significant correlation of recorded juvenile growth between replicated caging systems ($r=0.97$, $p<0.001$)



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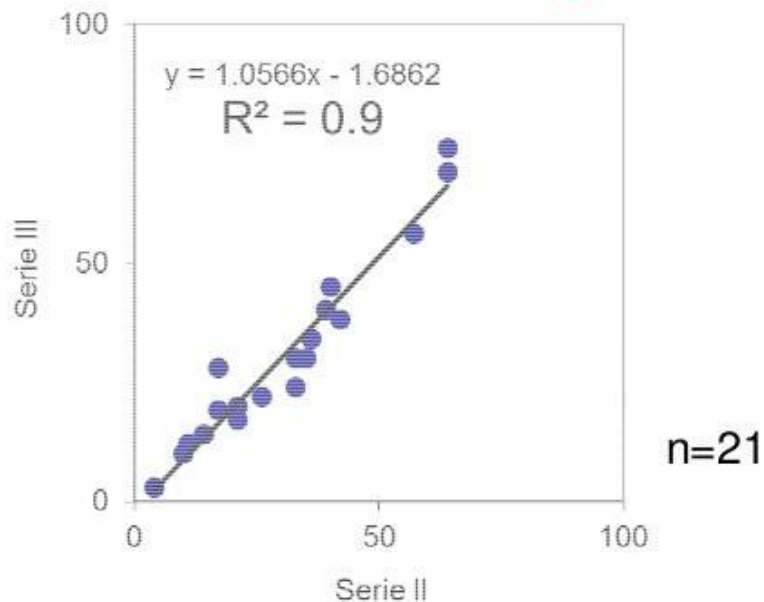
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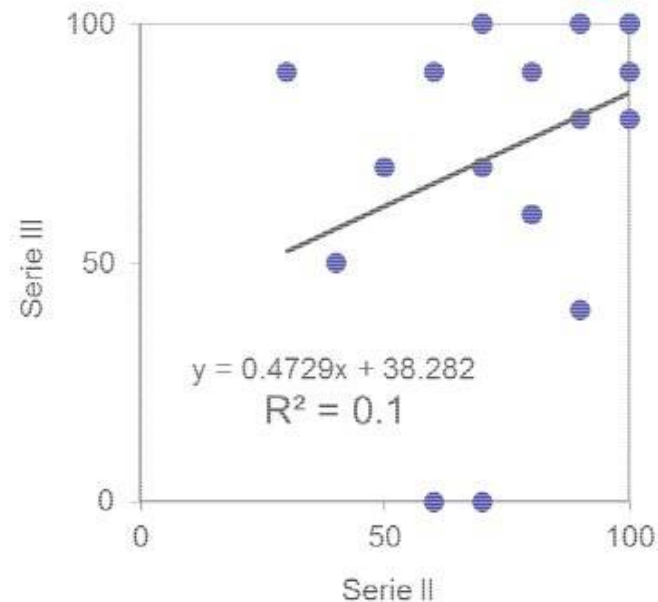


Verification of methods in studied environment:

GROWTH



SURVIVAL



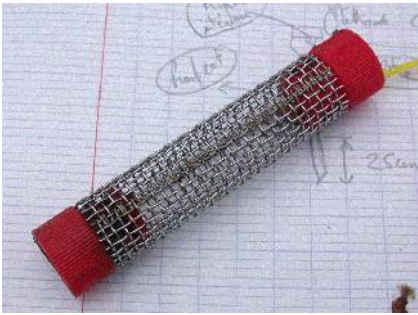
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→ quels systèmes d'élevage *in-situ* ?



6 bigoudis - 5 moules / bigoudis
(au total 30 moules par site)

pour 6 sites -> 180 moules



3 plaques Buddensiek - 10 moules / plaque
(au total 30 moules par site)

pour 6 sites -> 180 moules



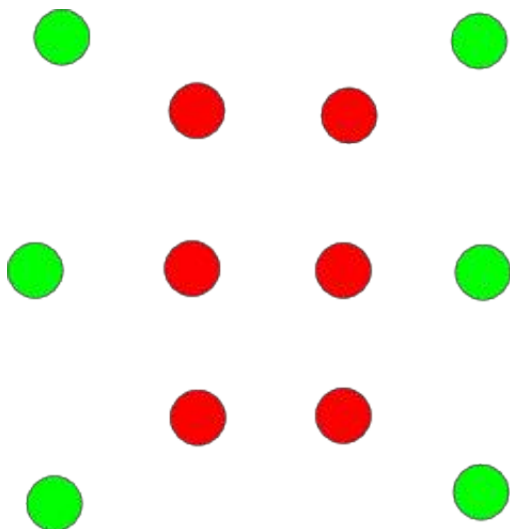
2 silos – 15 moules par silos
(au total 30 moules par site)

pour 6 sites -> 180 moules

Prévoir la construction, la pose, le nettoyage, l'entretien et le contrôle.

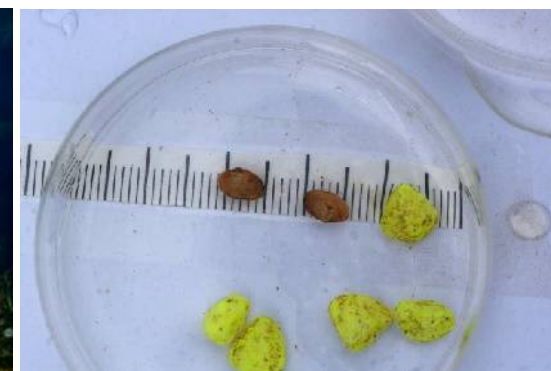
→ méthode des bigoudis

6 bigoudis - 5 mulettes / bigoudis
(au total 30 mulettes par site)



● Stick hypoxie de 10cm

● Bigoudis de 5 cm



↑
« Trempage »
Installation

↑
Nettoyage ?
Survie ?
Stick hypoxie

↑
Contrôle
Survie
Croissance ?

+ mesures C3 sédiments
+ mesures C3 eau
+ logger t°

→ méthode des plaques « Buddensiek »

3 plaques Buddensiek - 10 mulettes / plaque
(au total 30 mulettes par site)



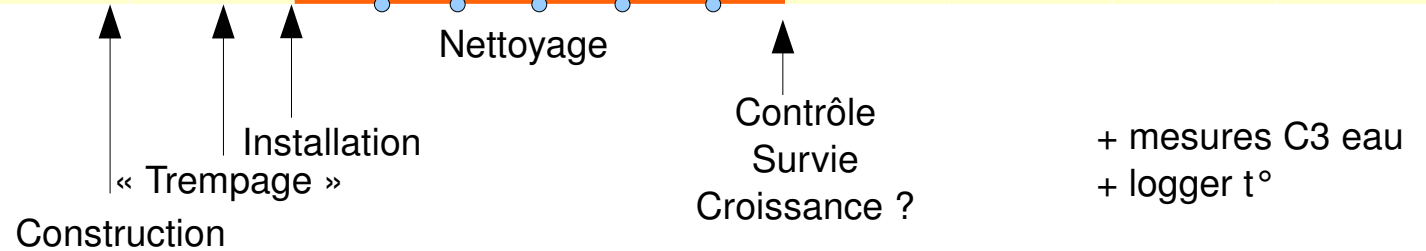
M. Lange



C. Scheder

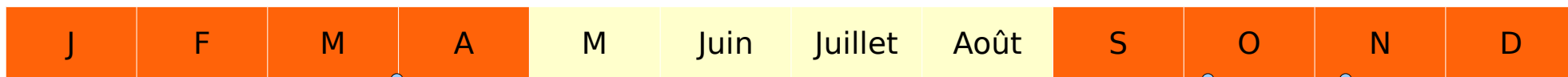
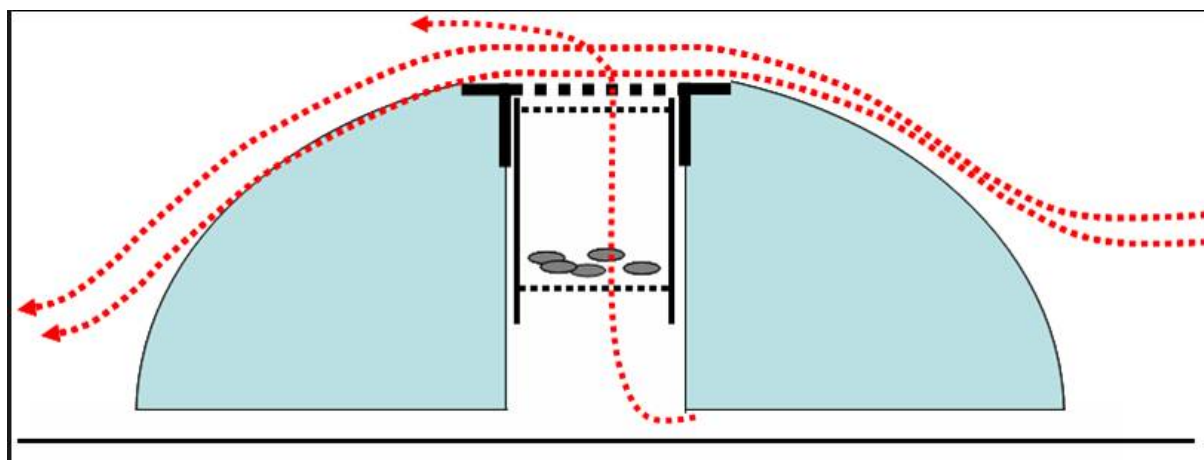


C. Scheder



→ méthode des silos

2 silos – 15 mulettes par silos
(au total 30 mulettes par site)



↑
Contrôle
Survie
Croissance ?

↑
Construction

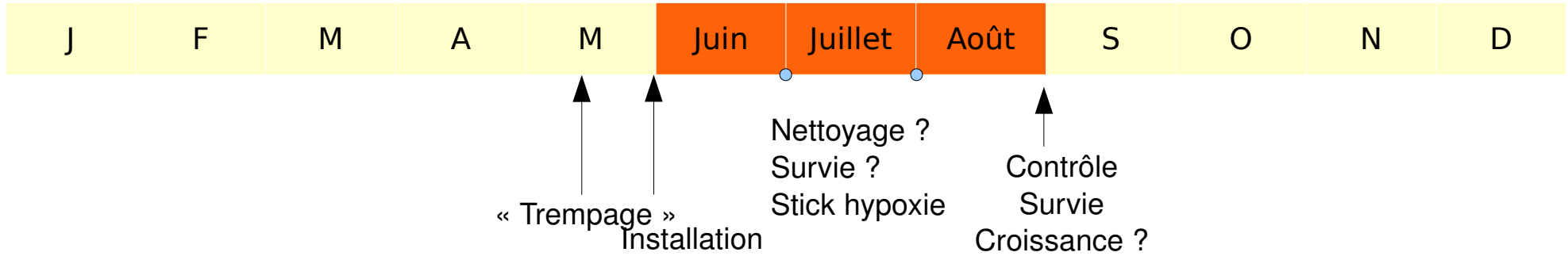
↑
« Trempage »

↑
Installation

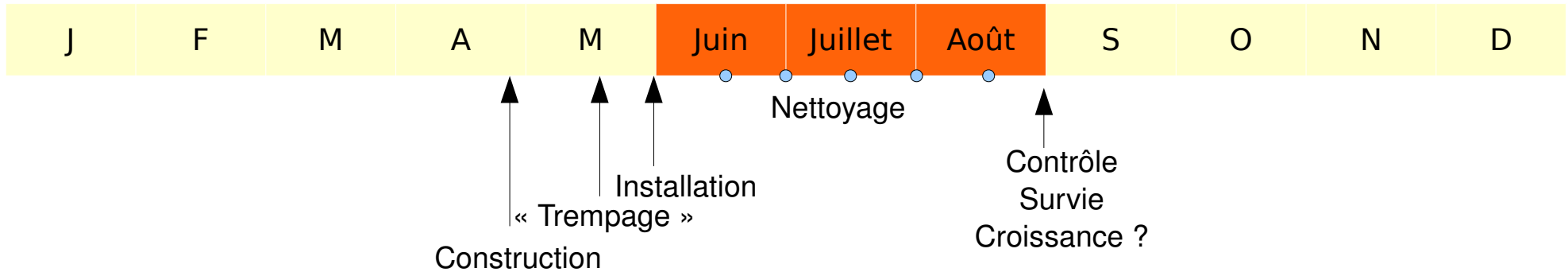
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Nettoyage ?
Survie ?

+ mesures C3 eau
+ logger t°

« Bigoudis »



Plaques « Buddensiek »



Silos

