



RESEARCH CENTRE

BIOGEOCHEMICAL WATER-MANAGEMENT & APPLIED RESEARCH ON ECOSYSTEMS

Het belang van de onderwaterbodem voor de waterkwaliteit

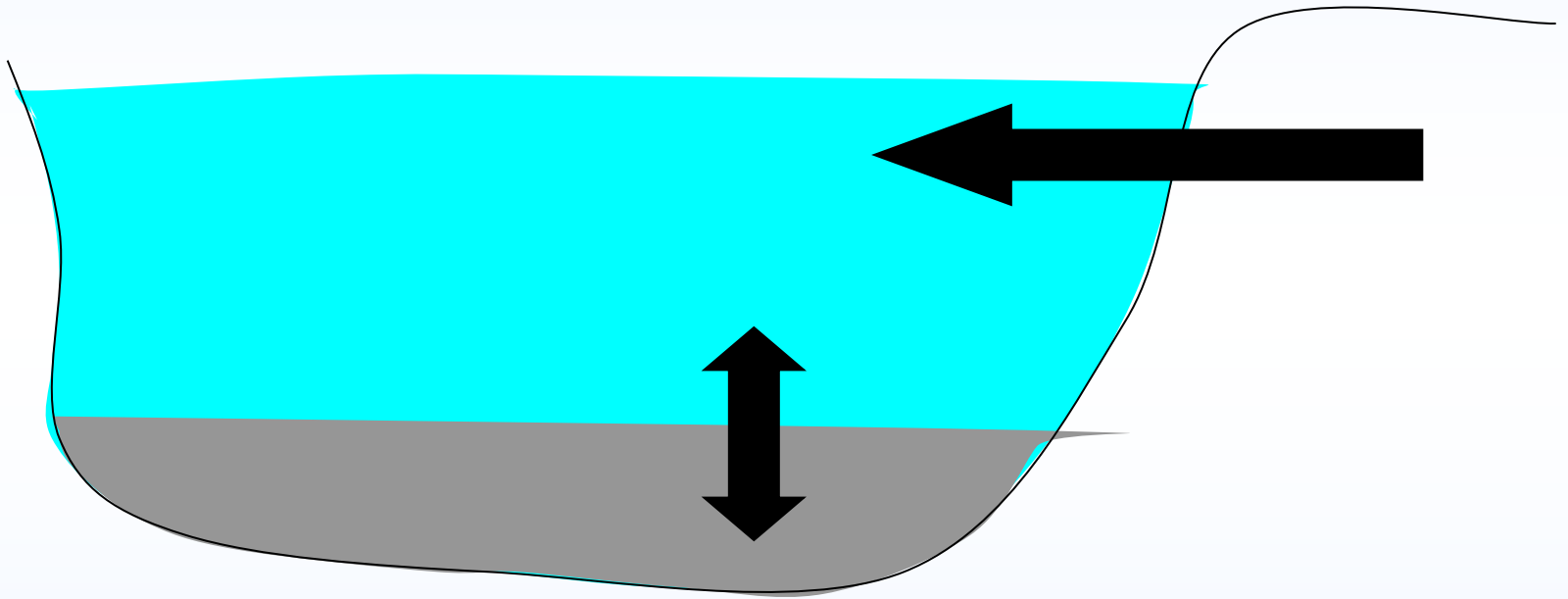
WEW 28 juni 2011

Fons Smolders

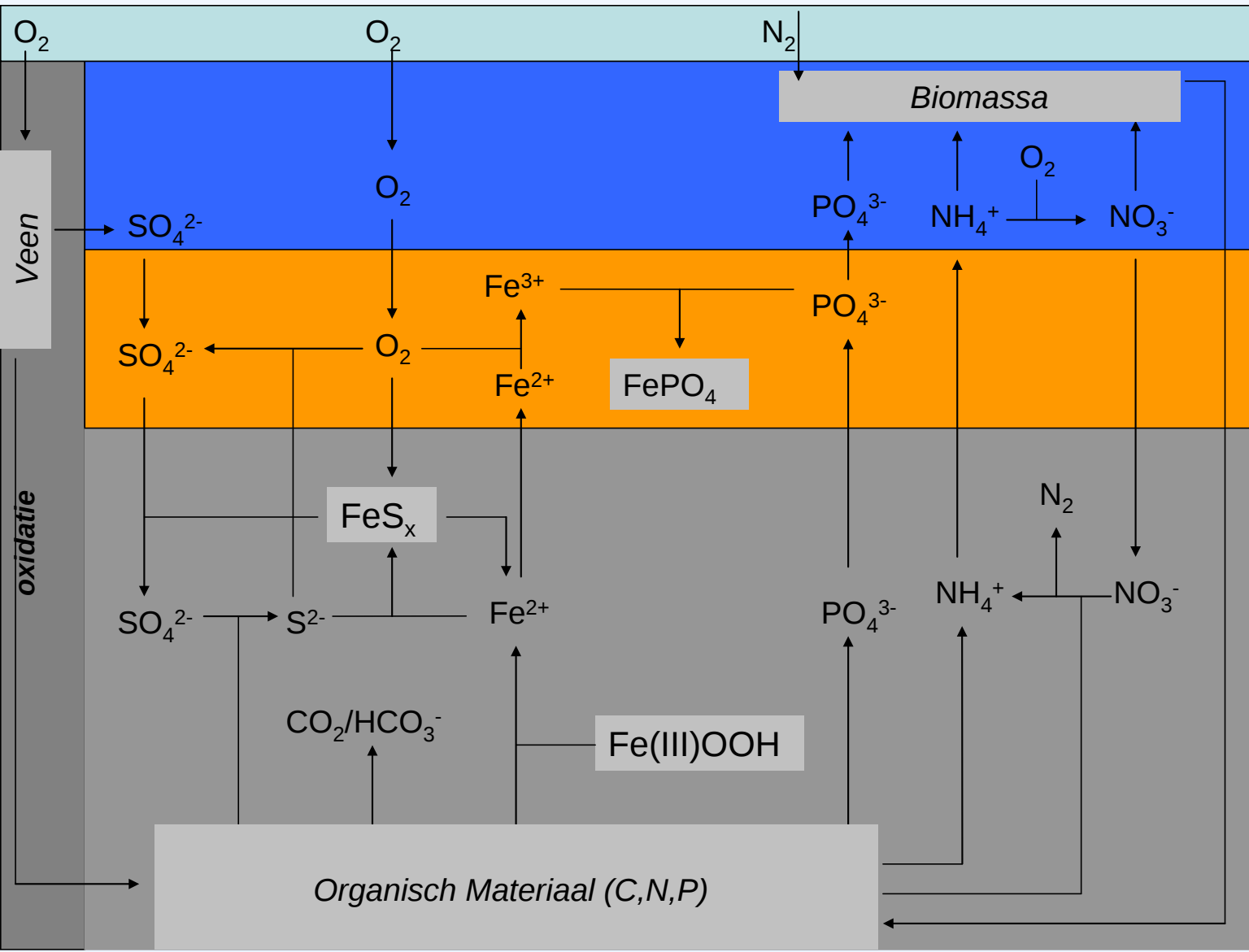
Radboud University Nijmegen



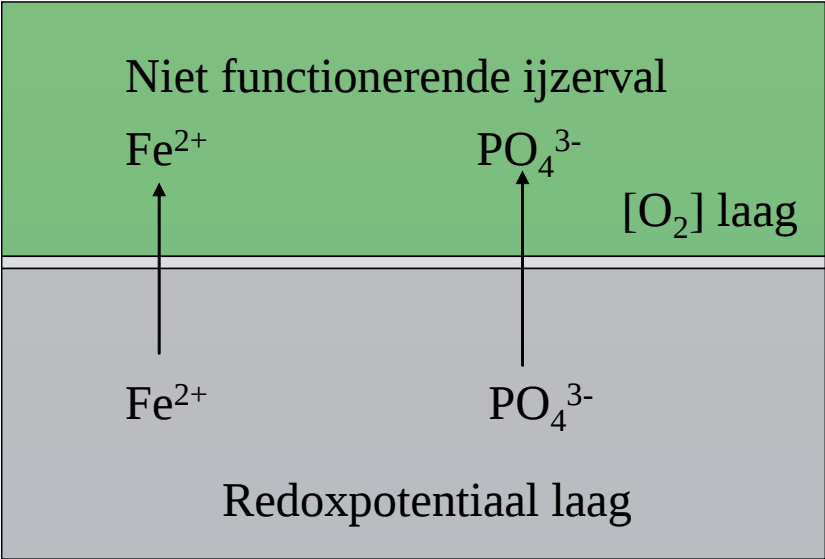
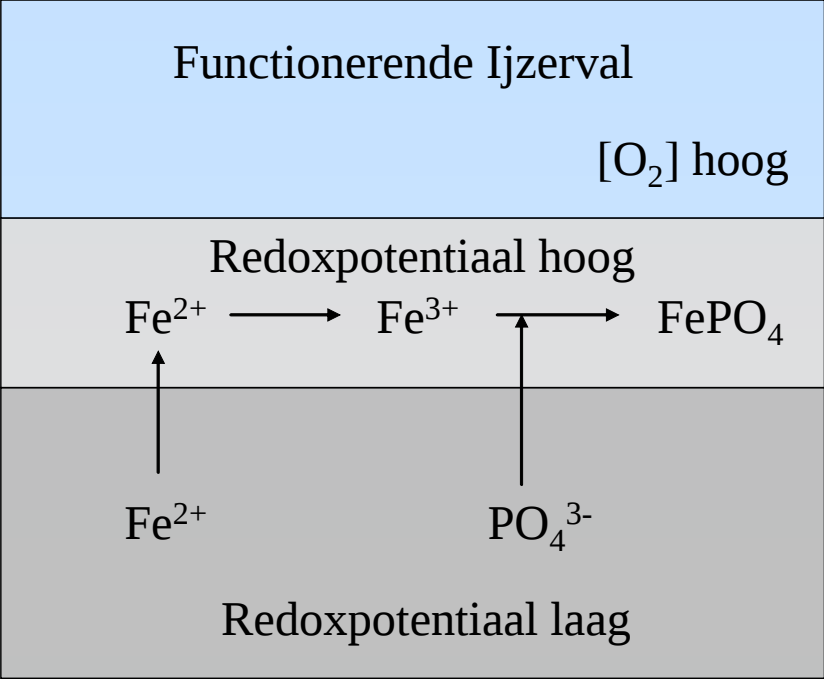
*Institute for Wetland and Water Research
Radboud University Nijmegen, the Netherlands*

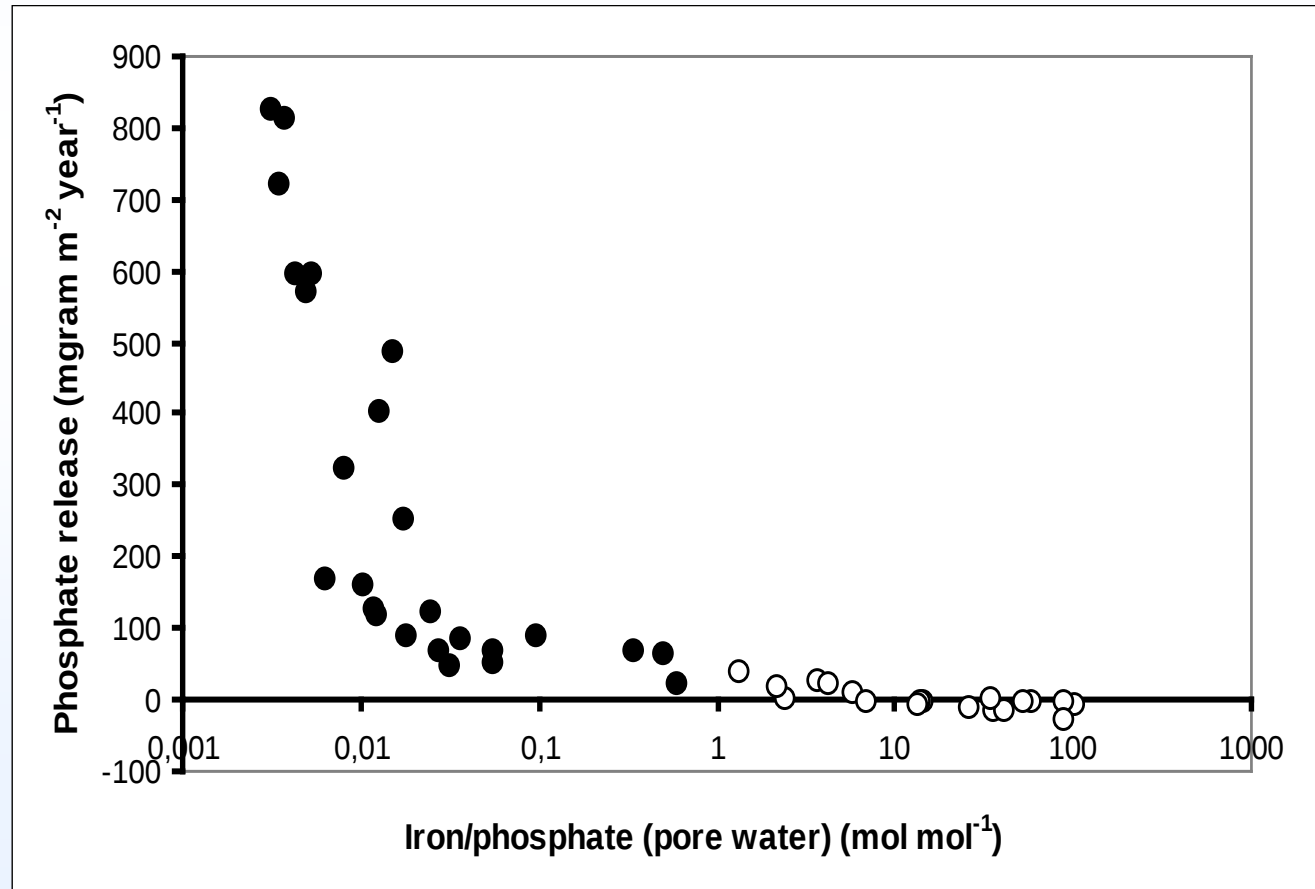
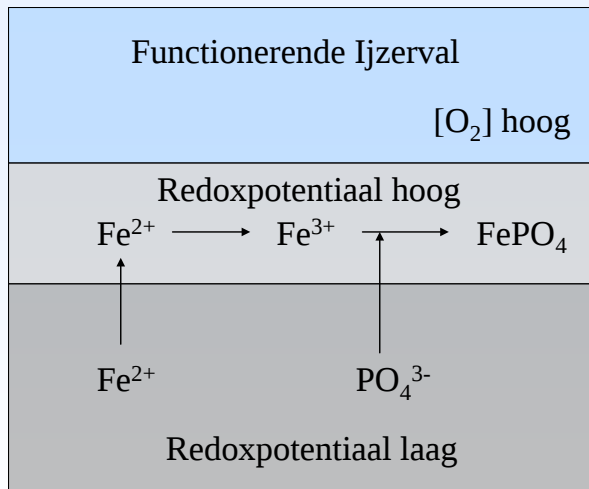


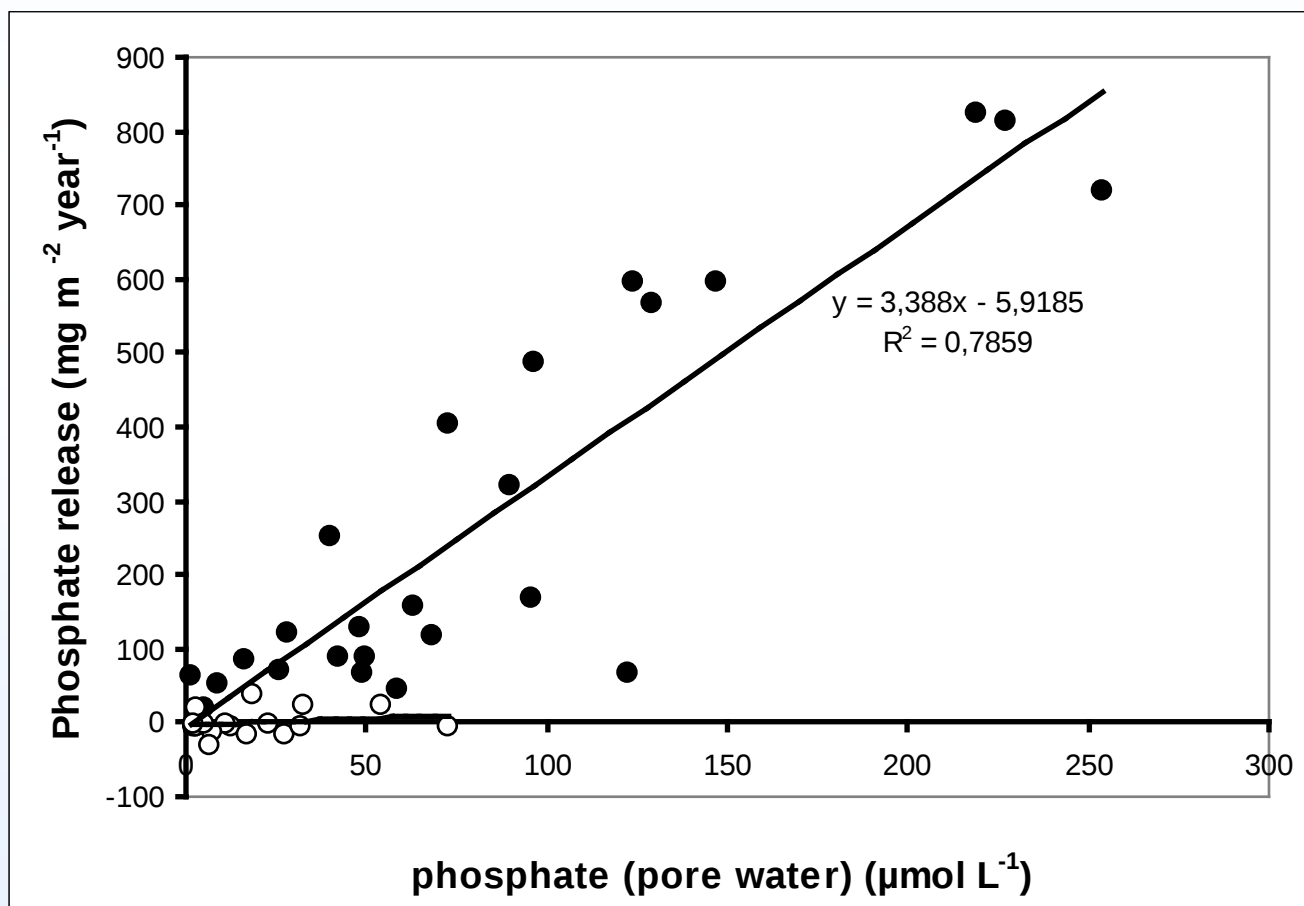
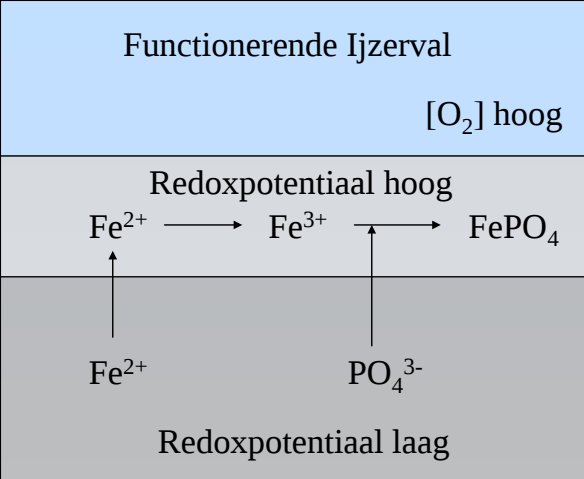
De complexiteit van de interacties tussen de ijzer-, zwavel-, stikstof-, fosfaat-, en koolstofkringloop. Een sterk versimpelde weergave.

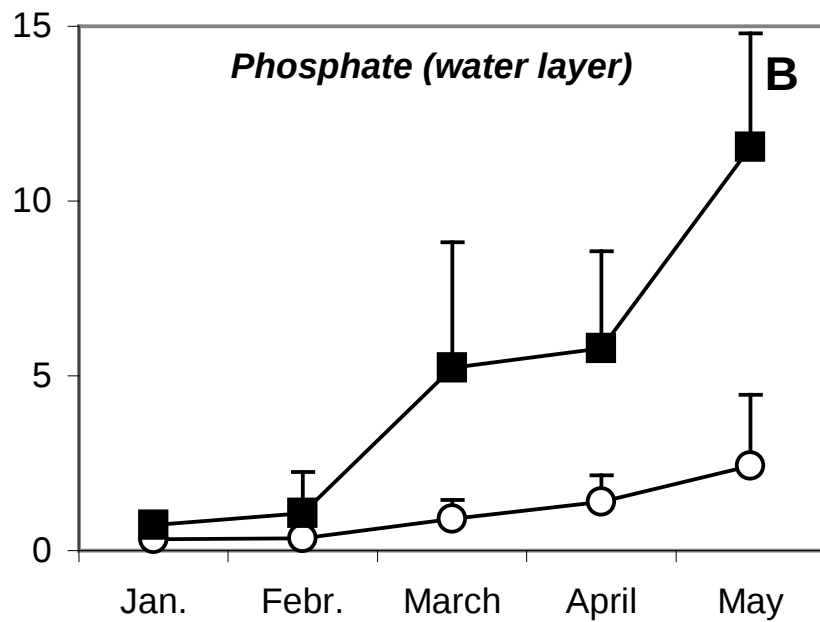
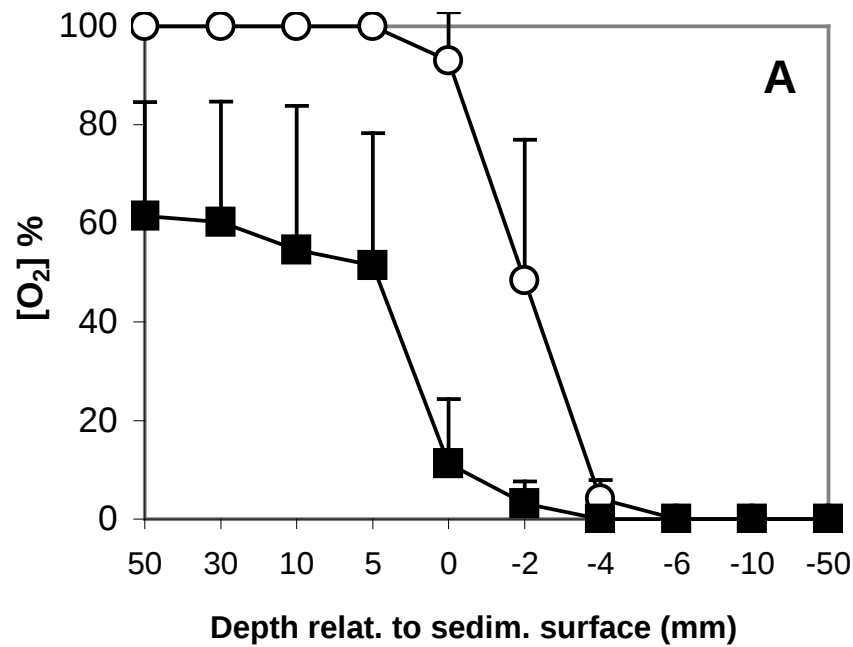


IJzer/fosfaat verhouding in poriewater beïnvloedt nalevering

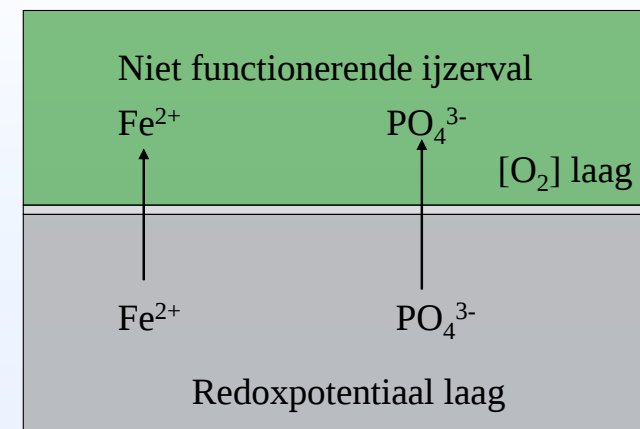
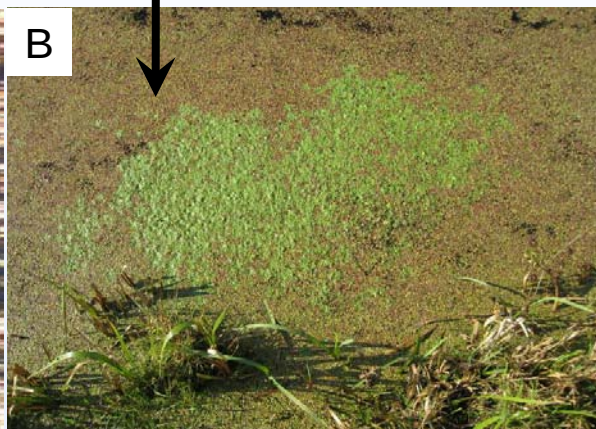
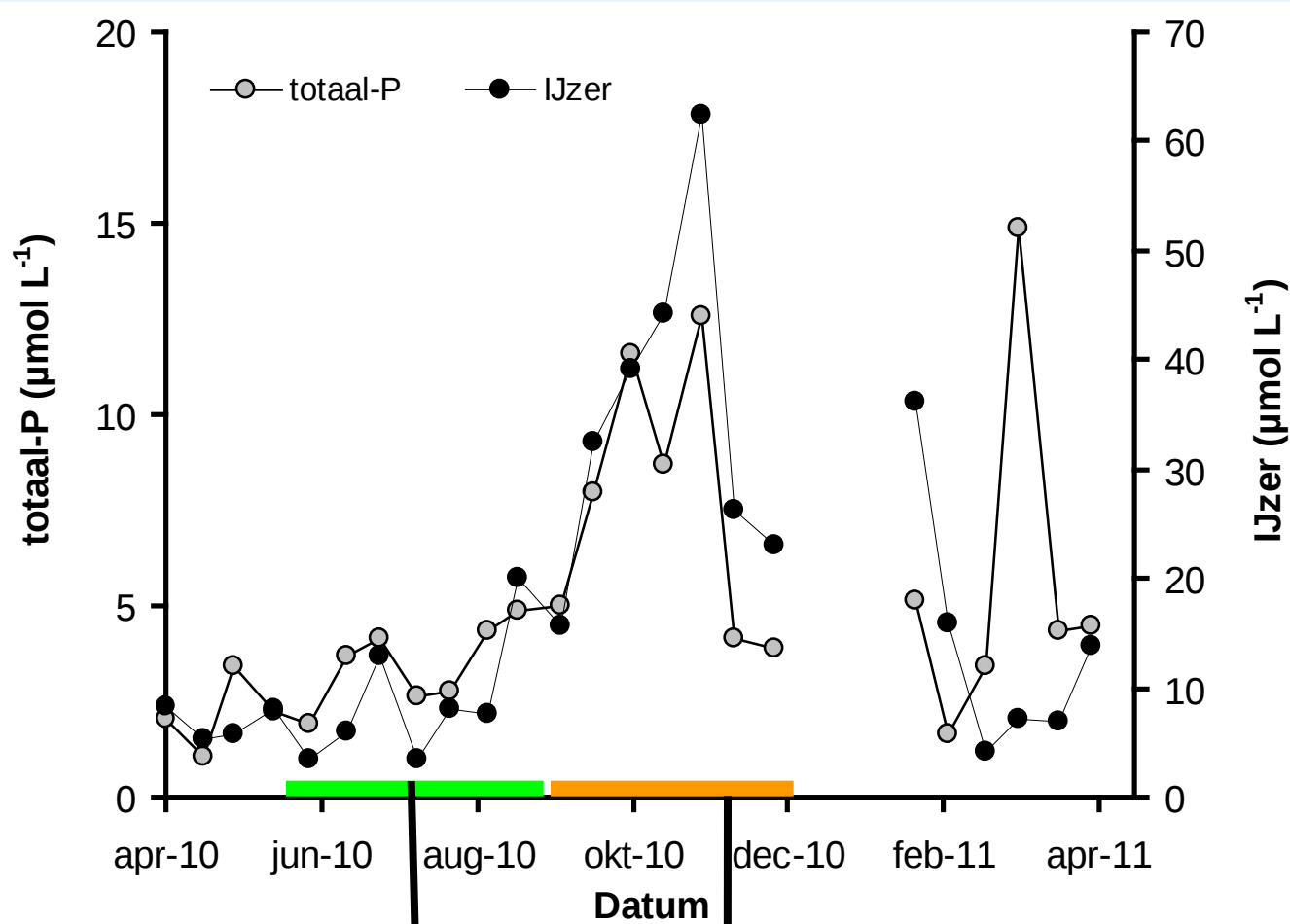








Sloot Lopikkerwaard



Interactions between sediment propagule banks and sediment nutrient fluxes explain floating plant dominance in stagnant shallow waters

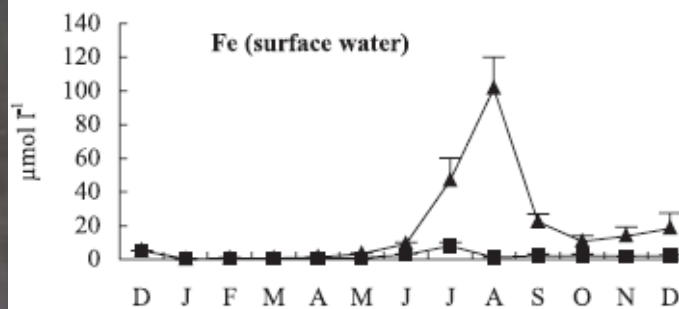
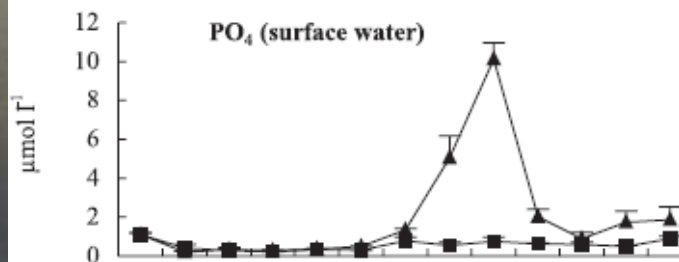
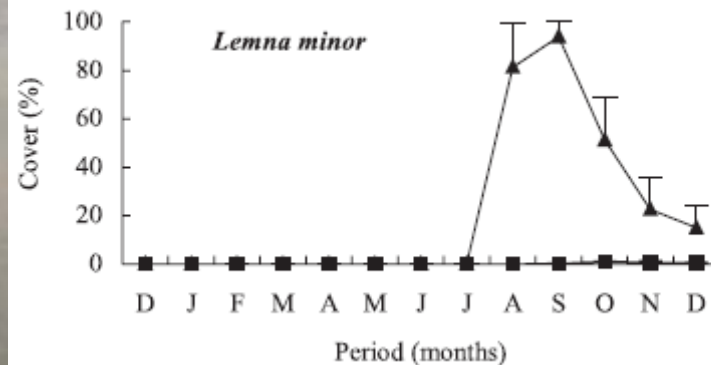
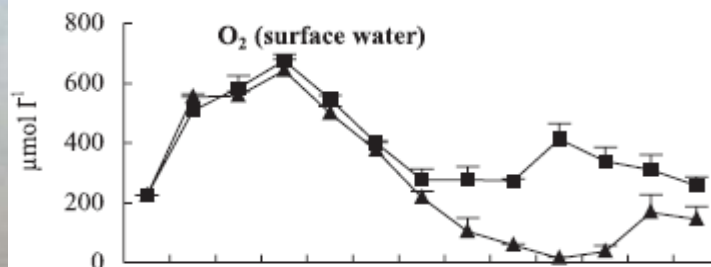
Ger Boedeltje, Alfons J. P. Smolders, Leon P. M. Lamers and Jan G. M. Roelofs¹

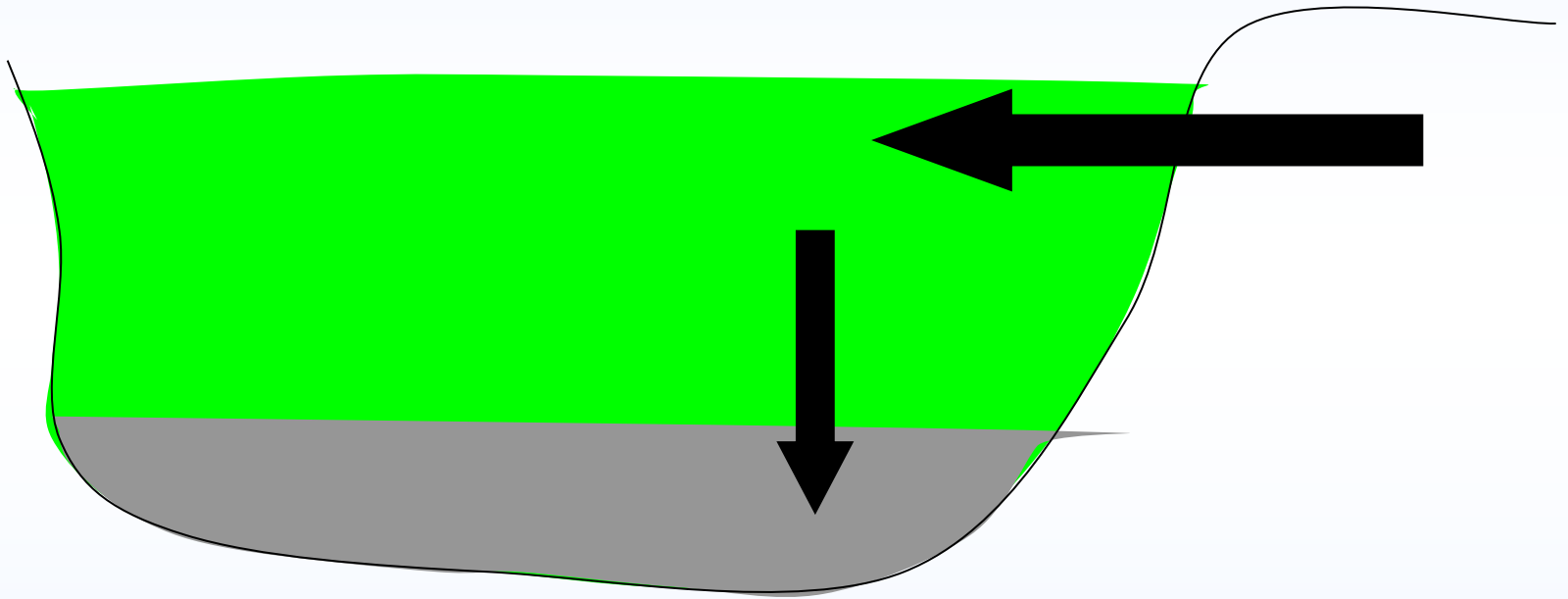
Radboud University Nijmegen, Department of Ecology, Research group of Aquatic Ecology and Environmental Biology

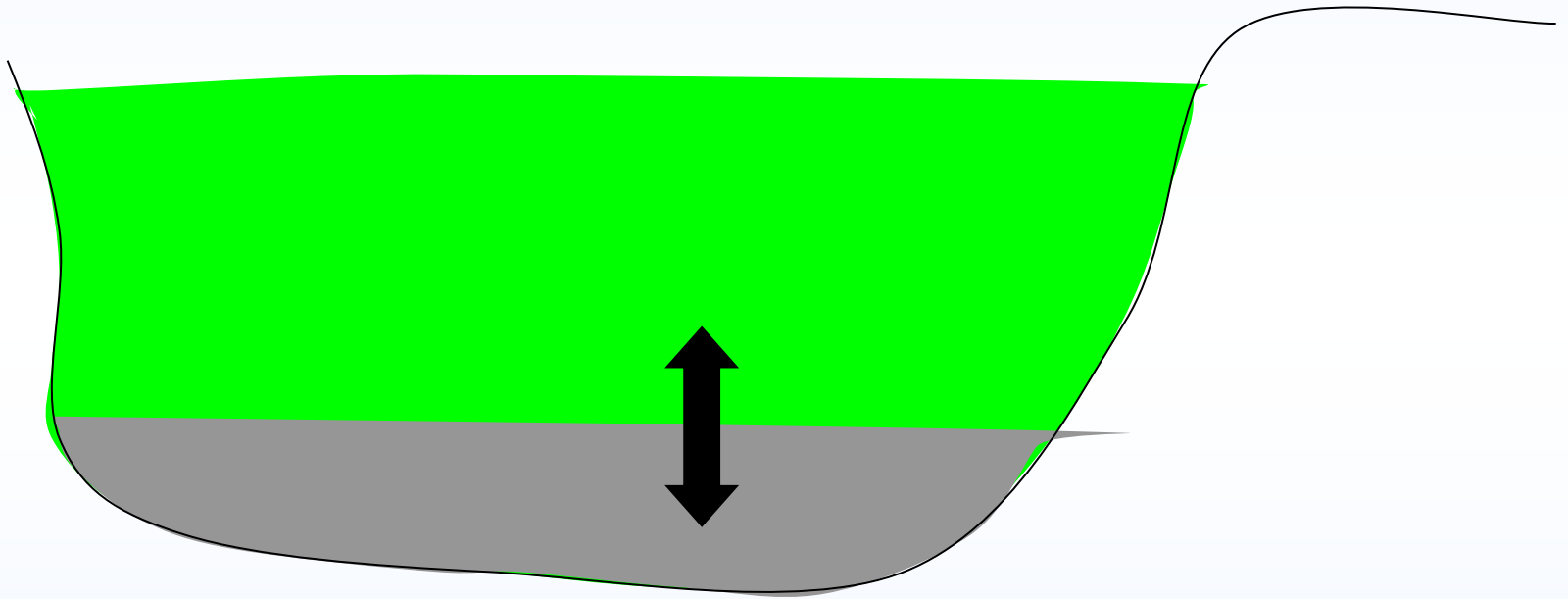
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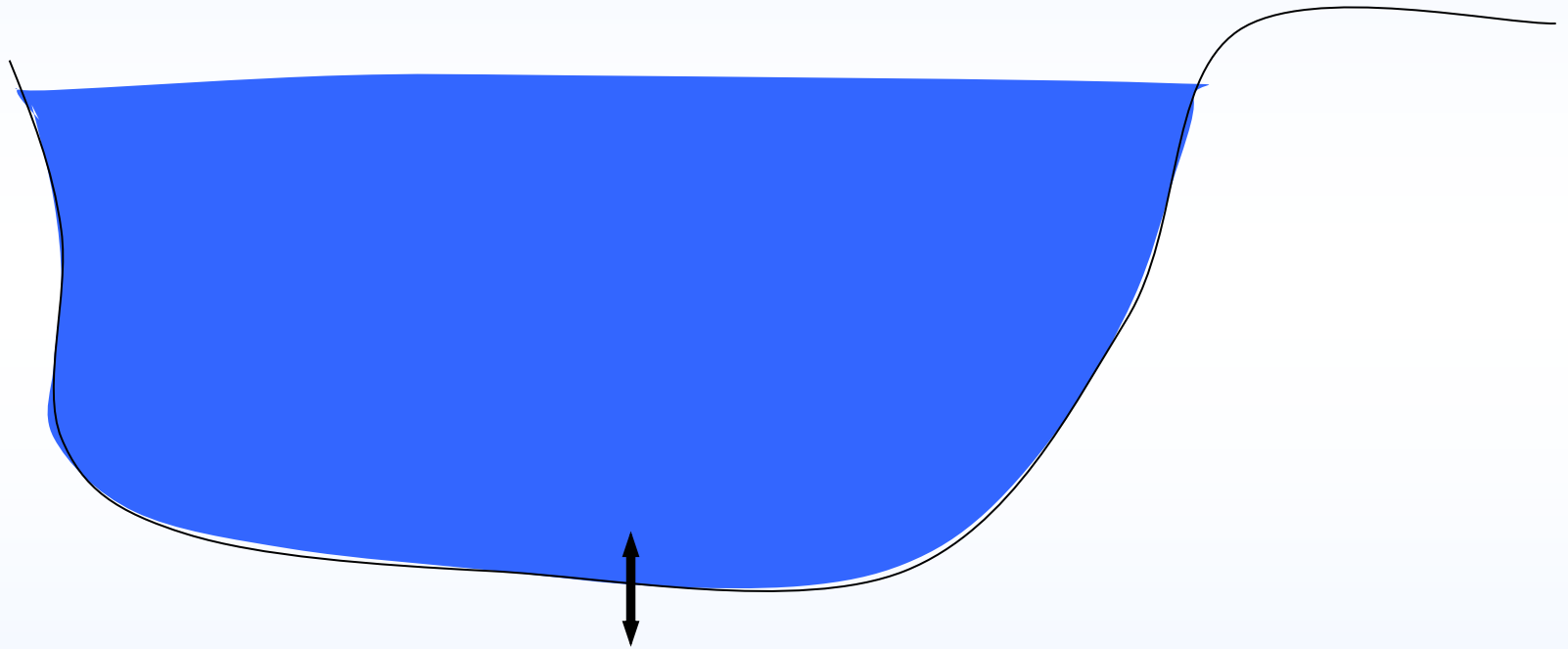
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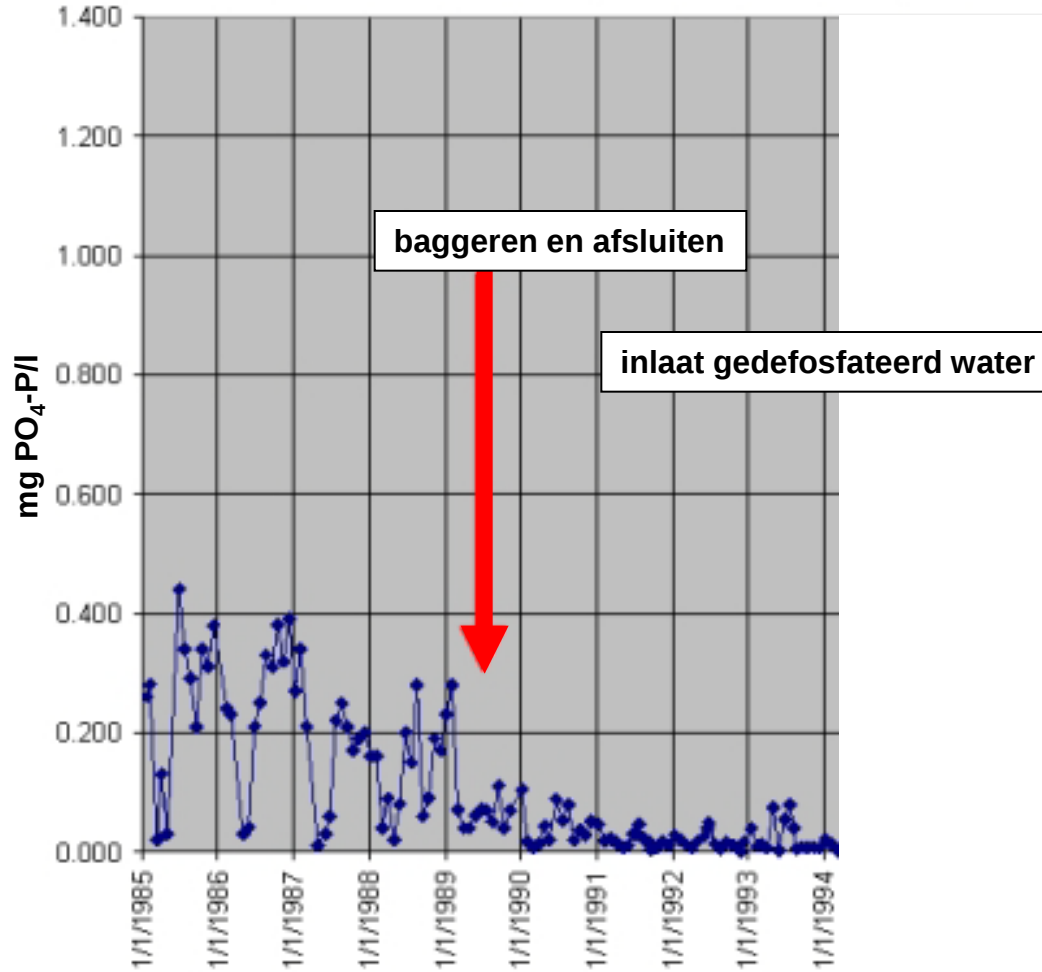




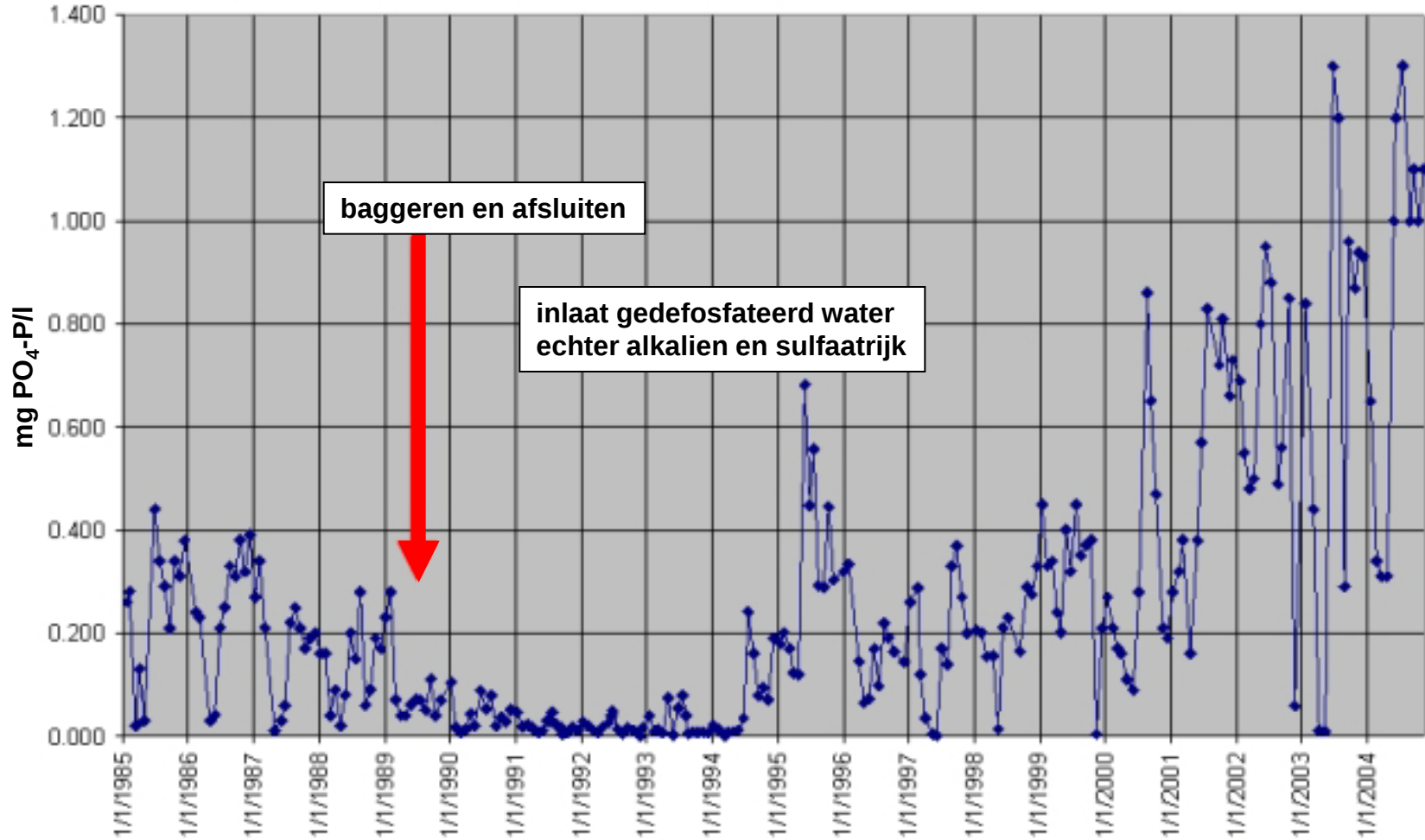


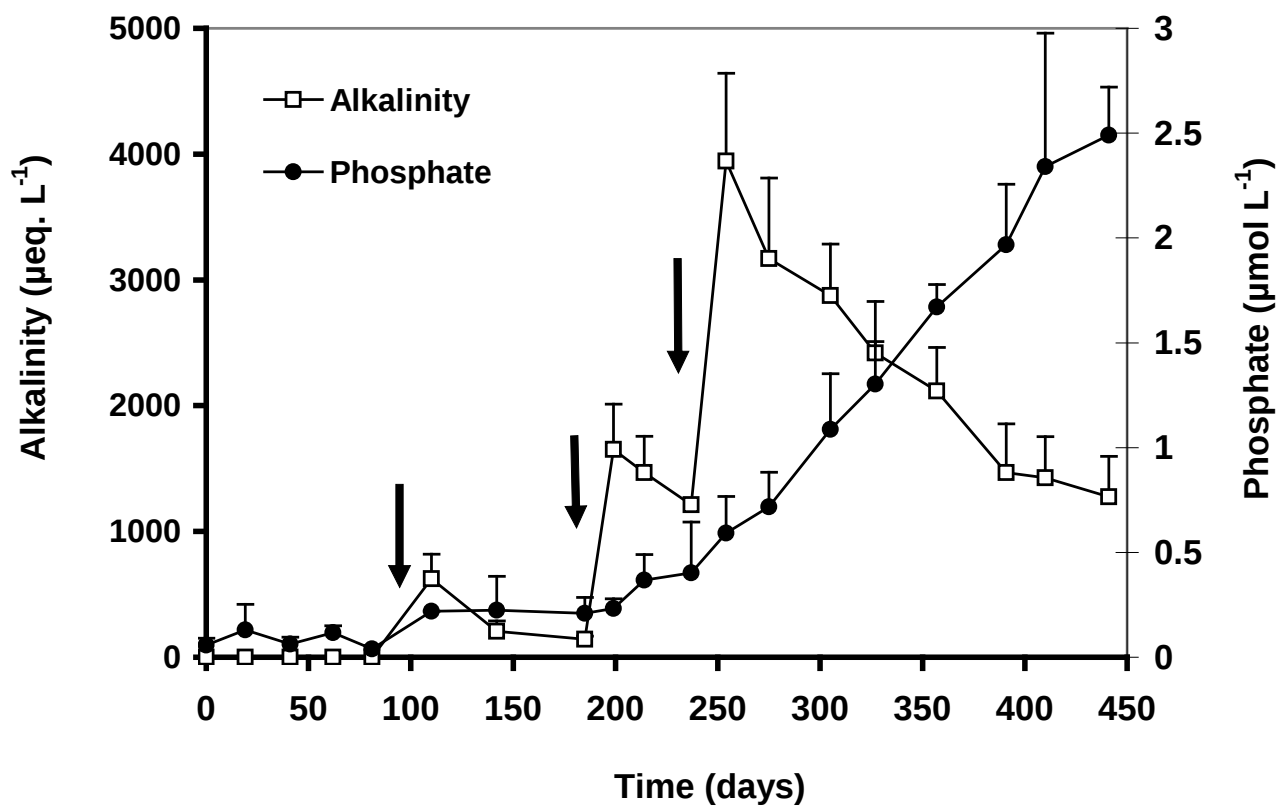


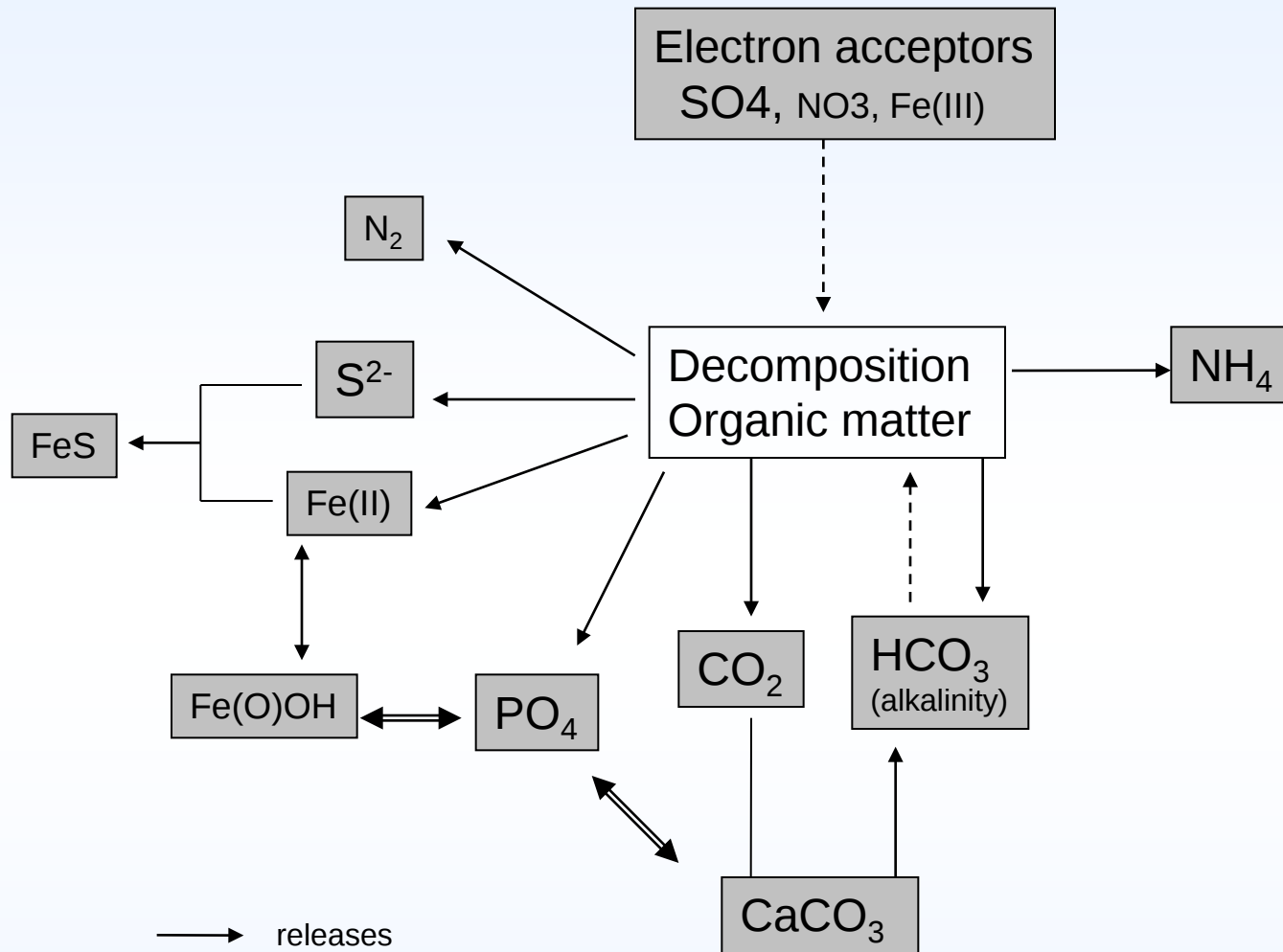
Geerplas Orthofosfaat



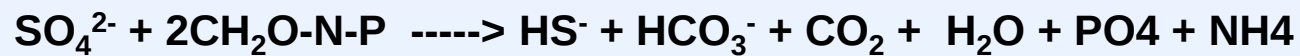
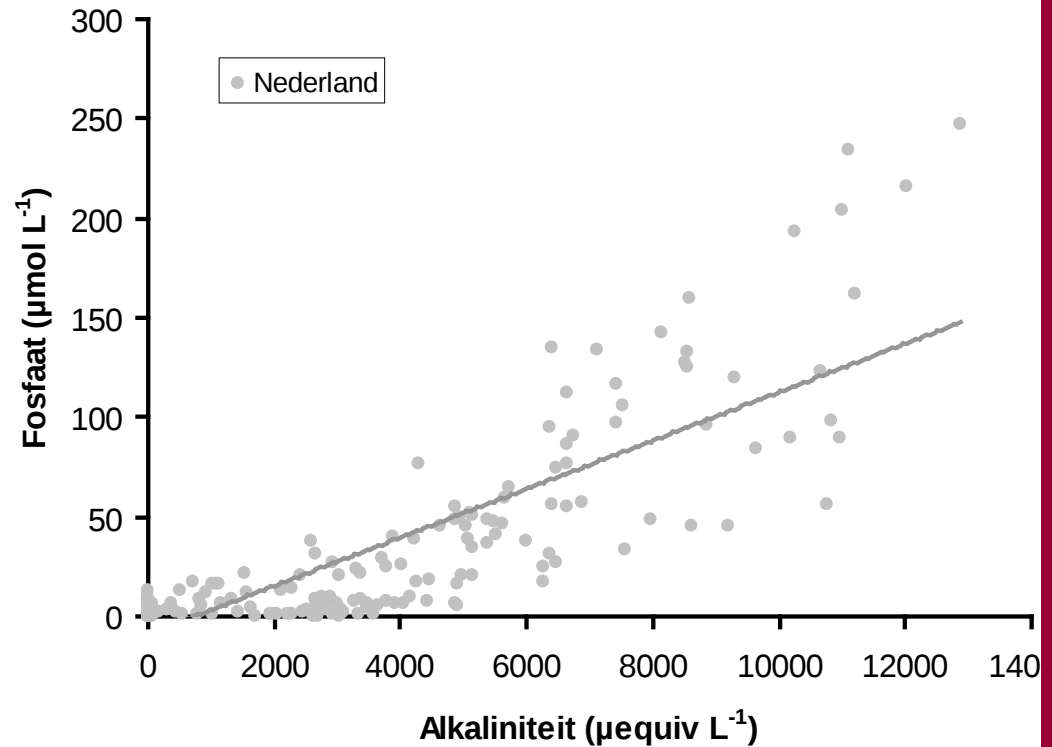
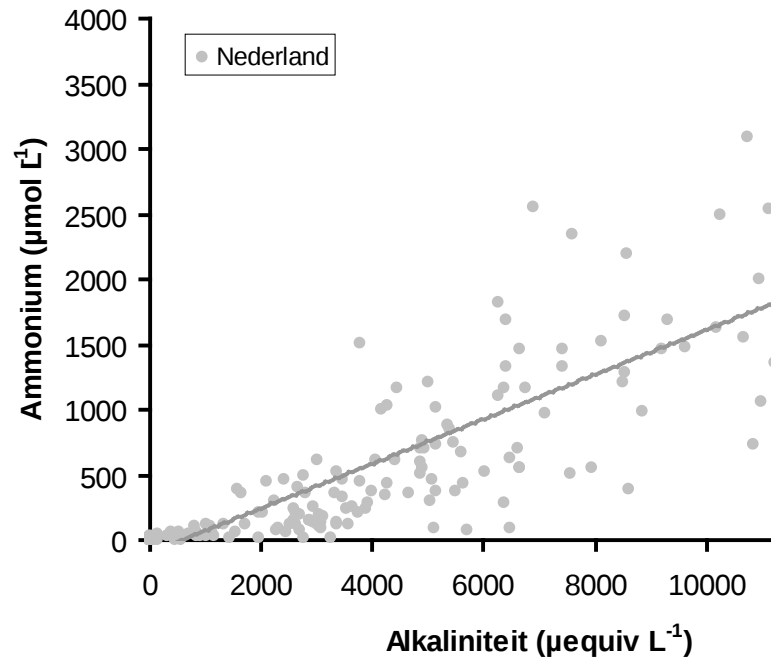
Geerplas Orthofosfaat

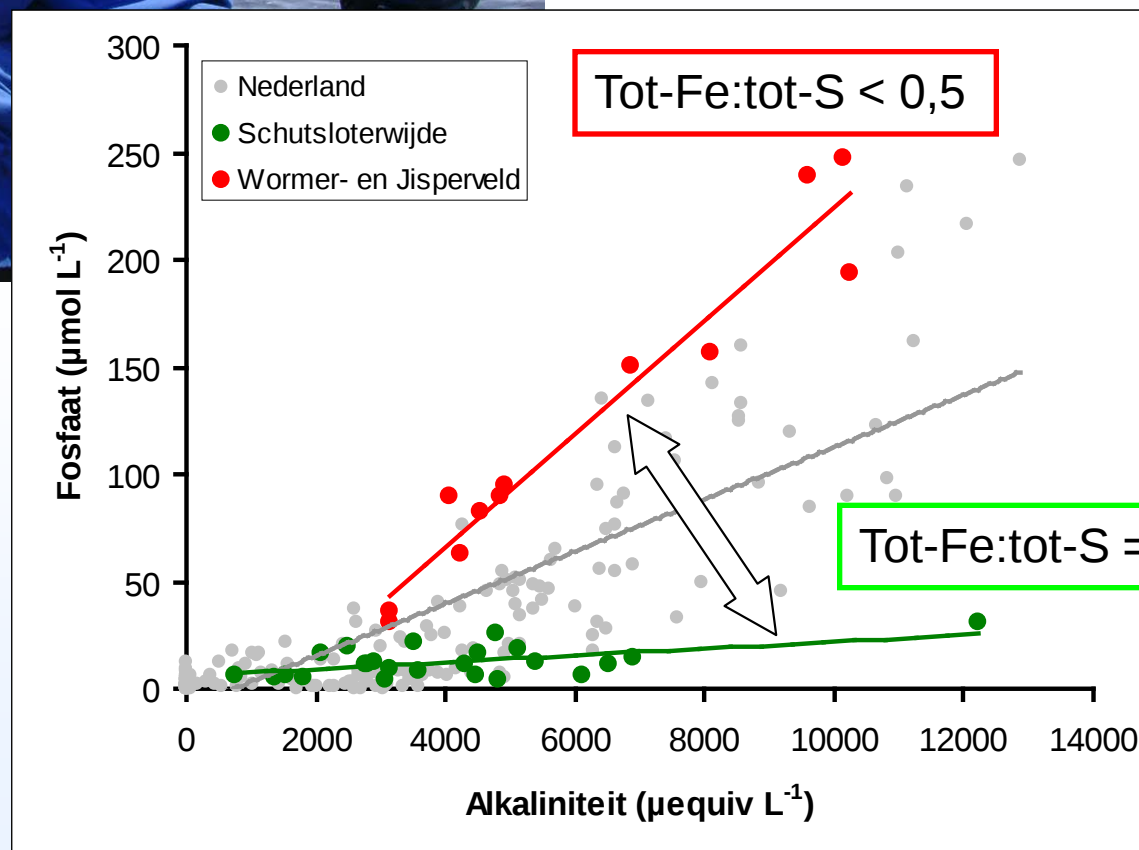


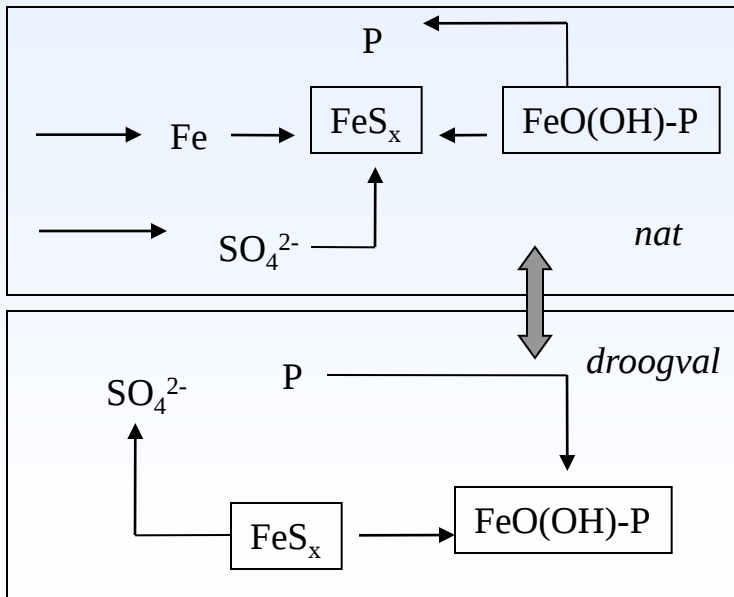




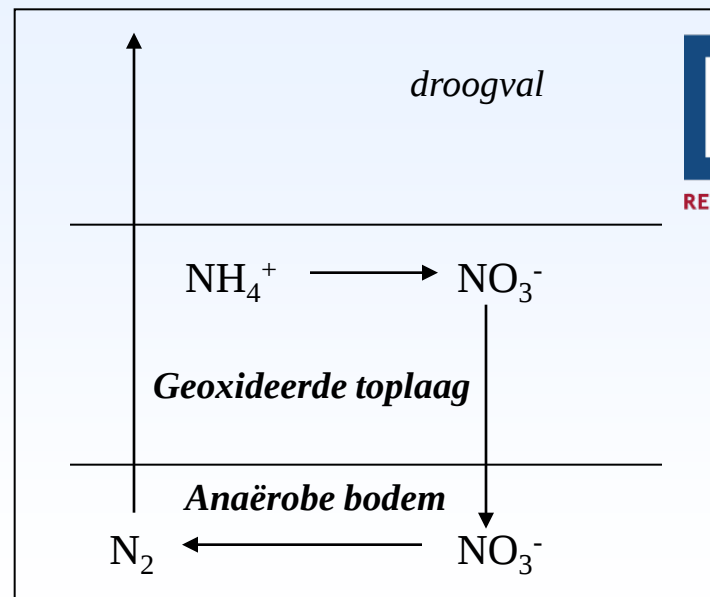
- releases
- - - -> stimulates
- reacts with
- ↔ Co-precipitates with or adsorbs to



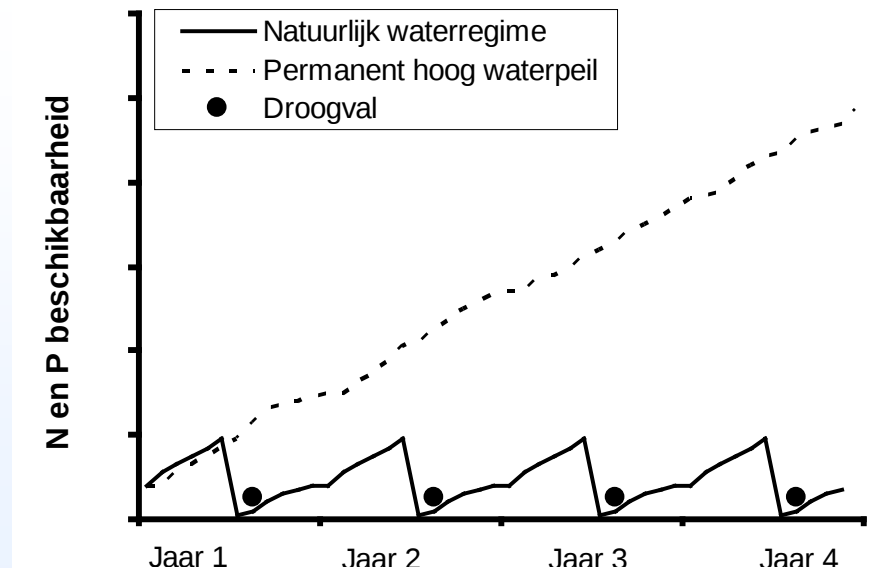




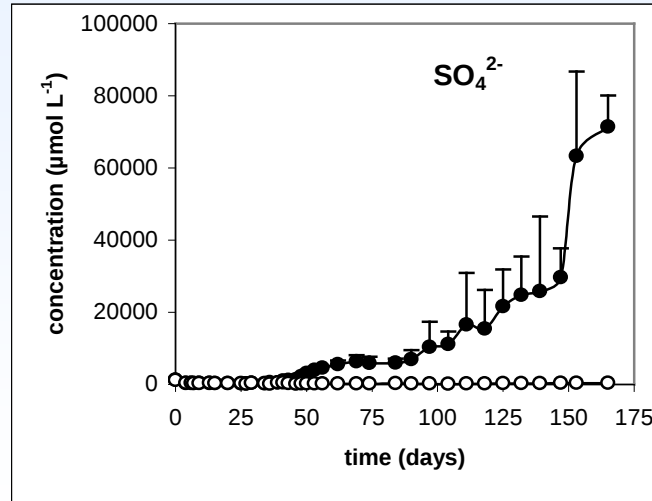
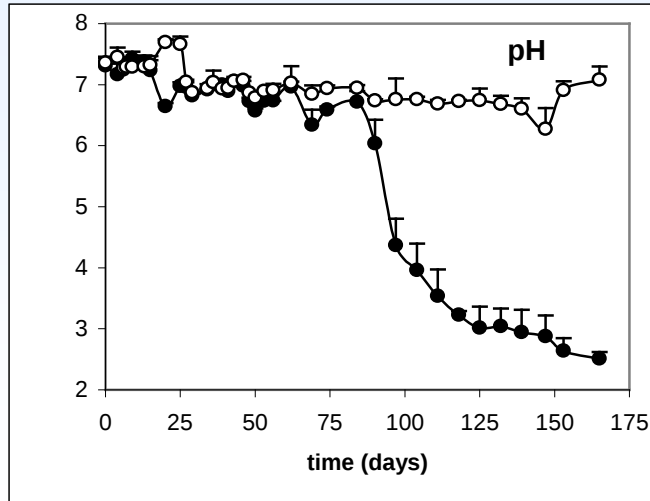
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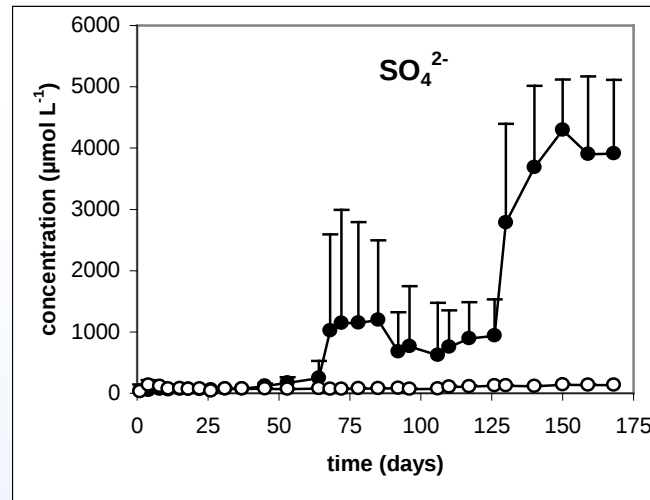
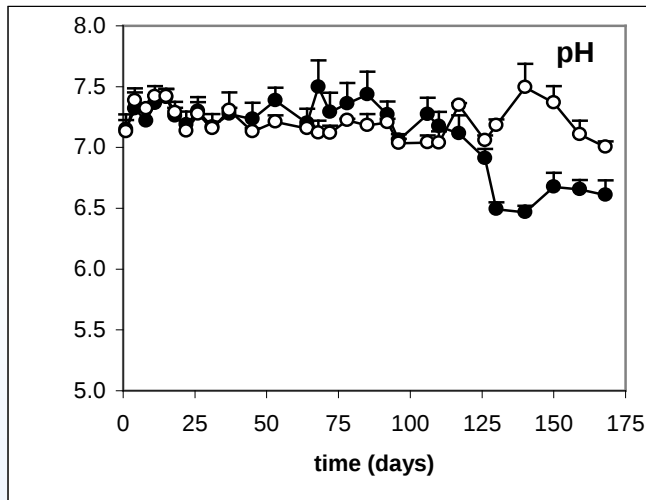
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Bruuk



Oude Waal



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Geoderma 132 (2006) 372–383

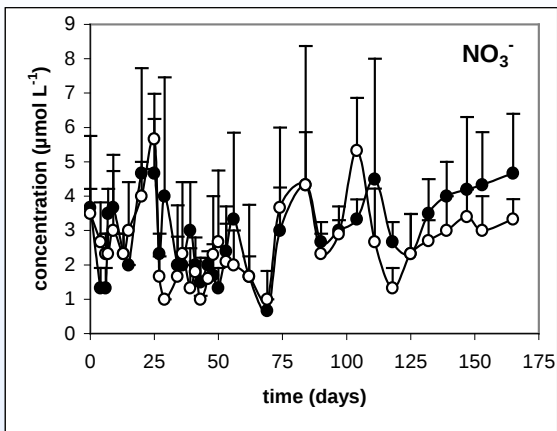
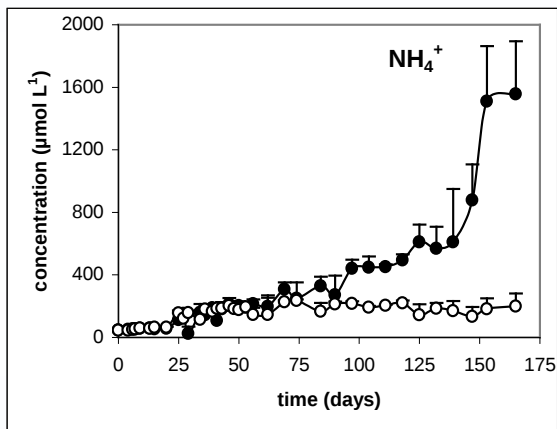
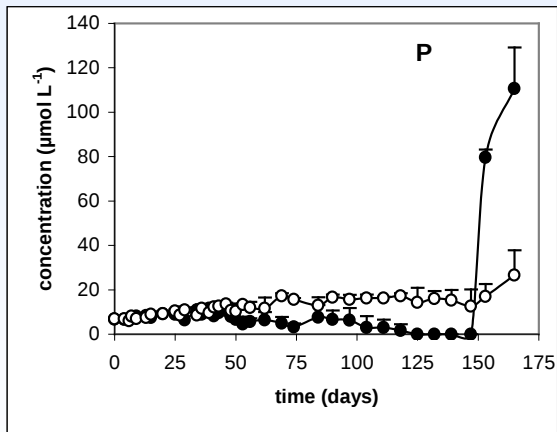
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www.elsevier.com/locate/geoderma

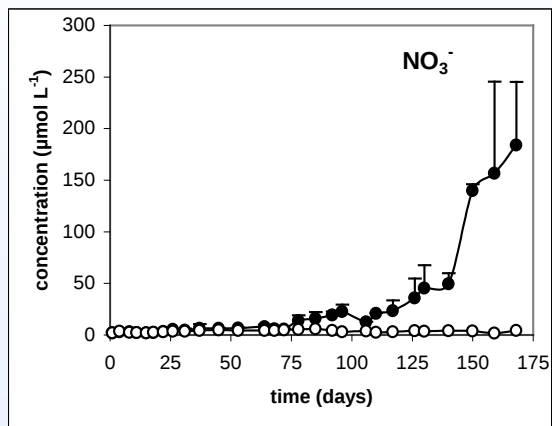
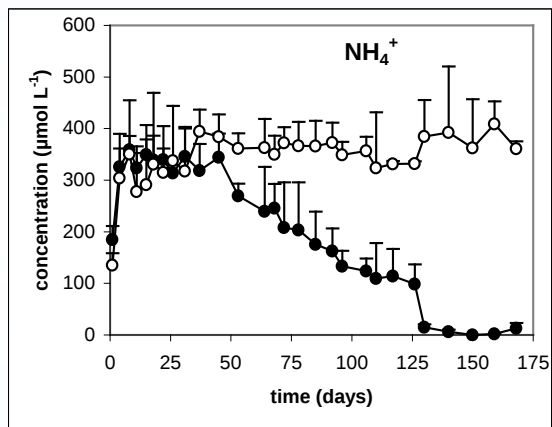
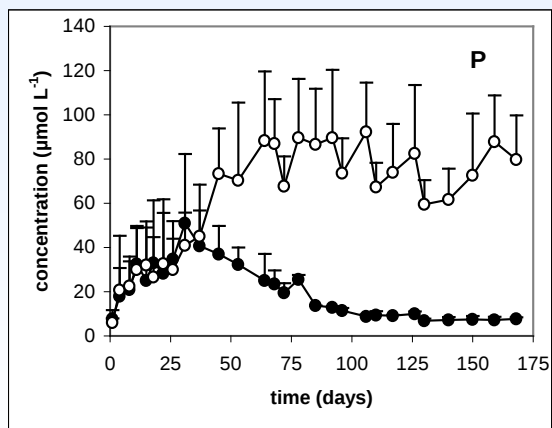
Changes in pore water chemistry of desiccating freshwater sediments with different sulphur contents

A.J.P. Smolders*, M. Moonen, K. Zwaga, E.C.H.E.T. Lucassen, L.P.M. Lamers, J.G.M. Roelofs

Bruuk

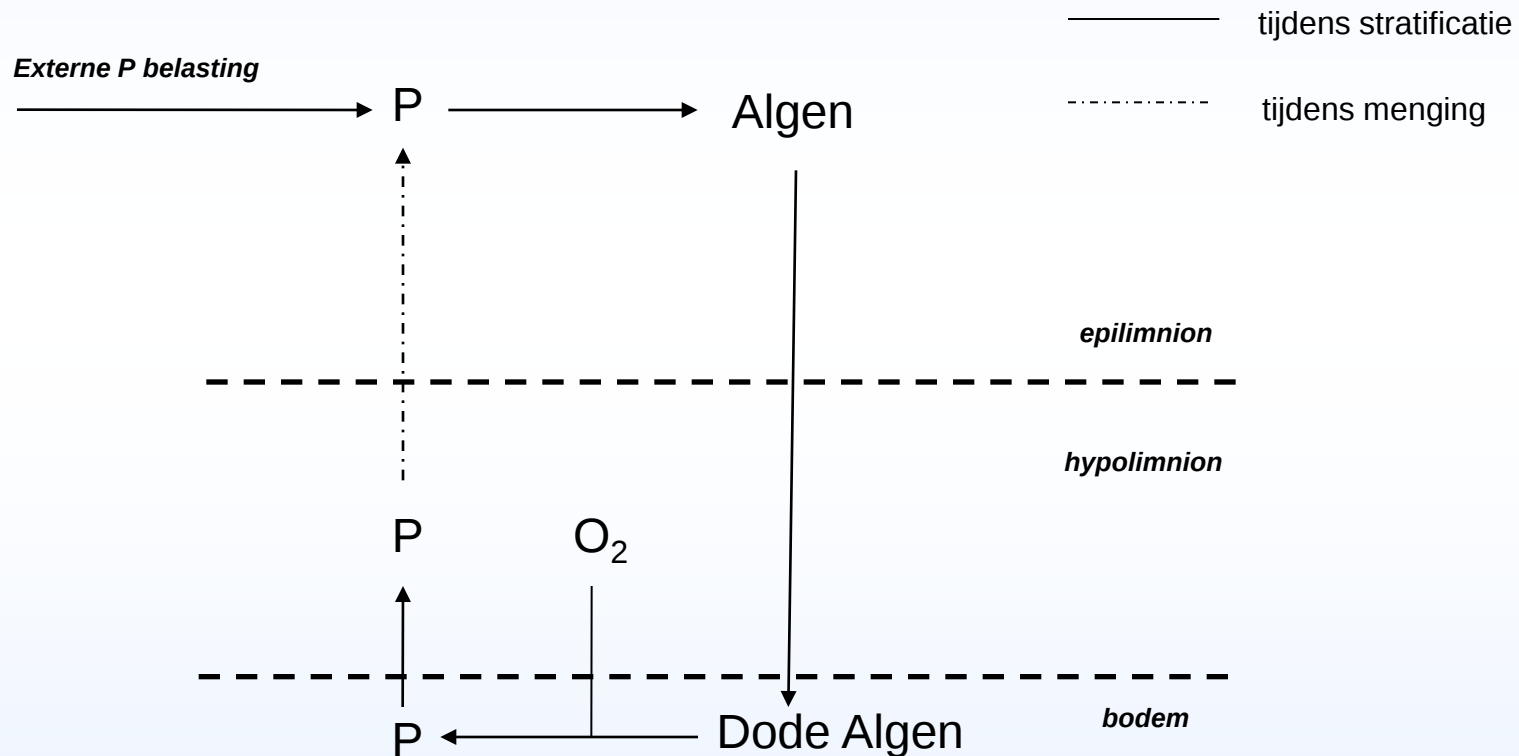


Oude Waal

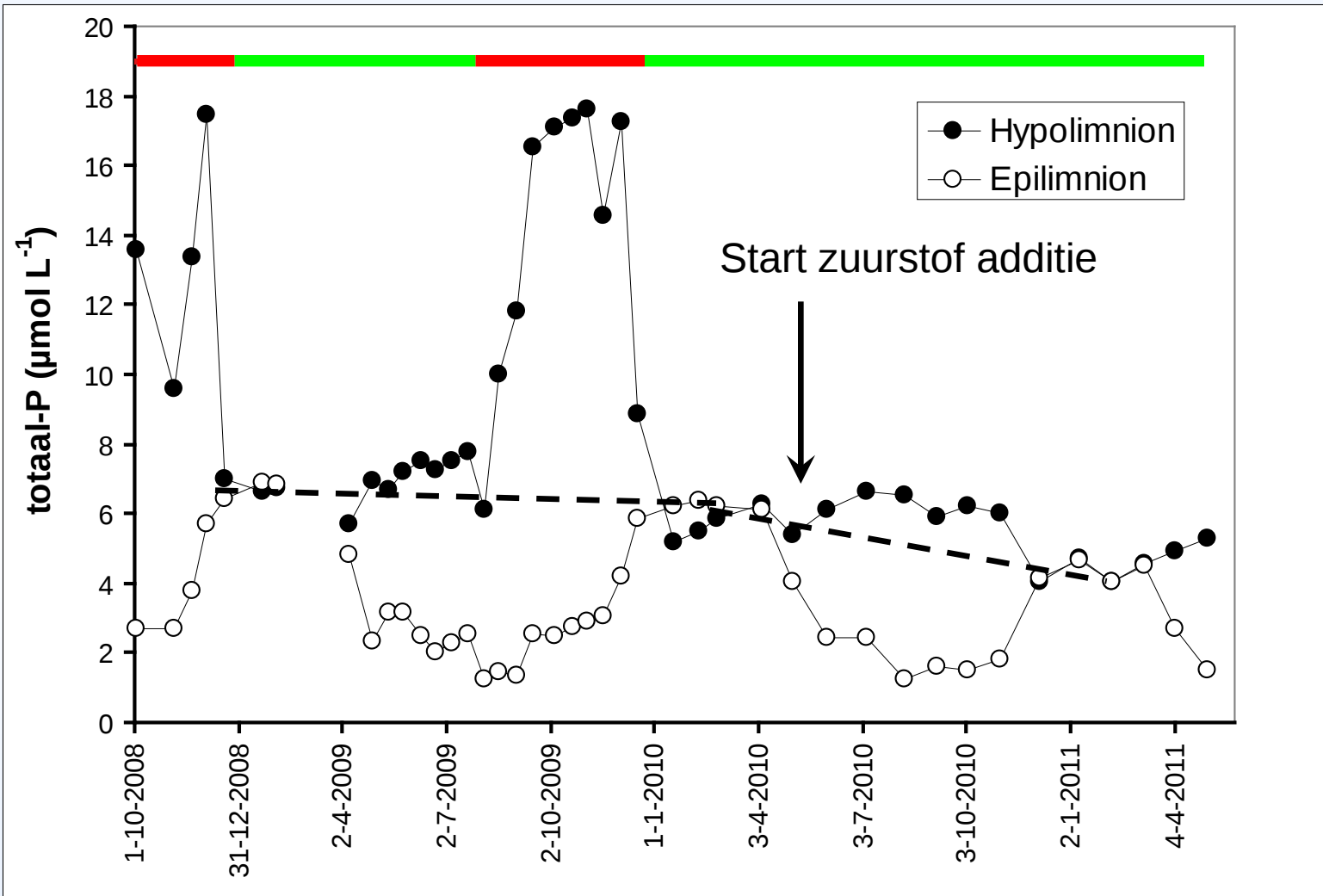


Rondzingen van P via algencyclus

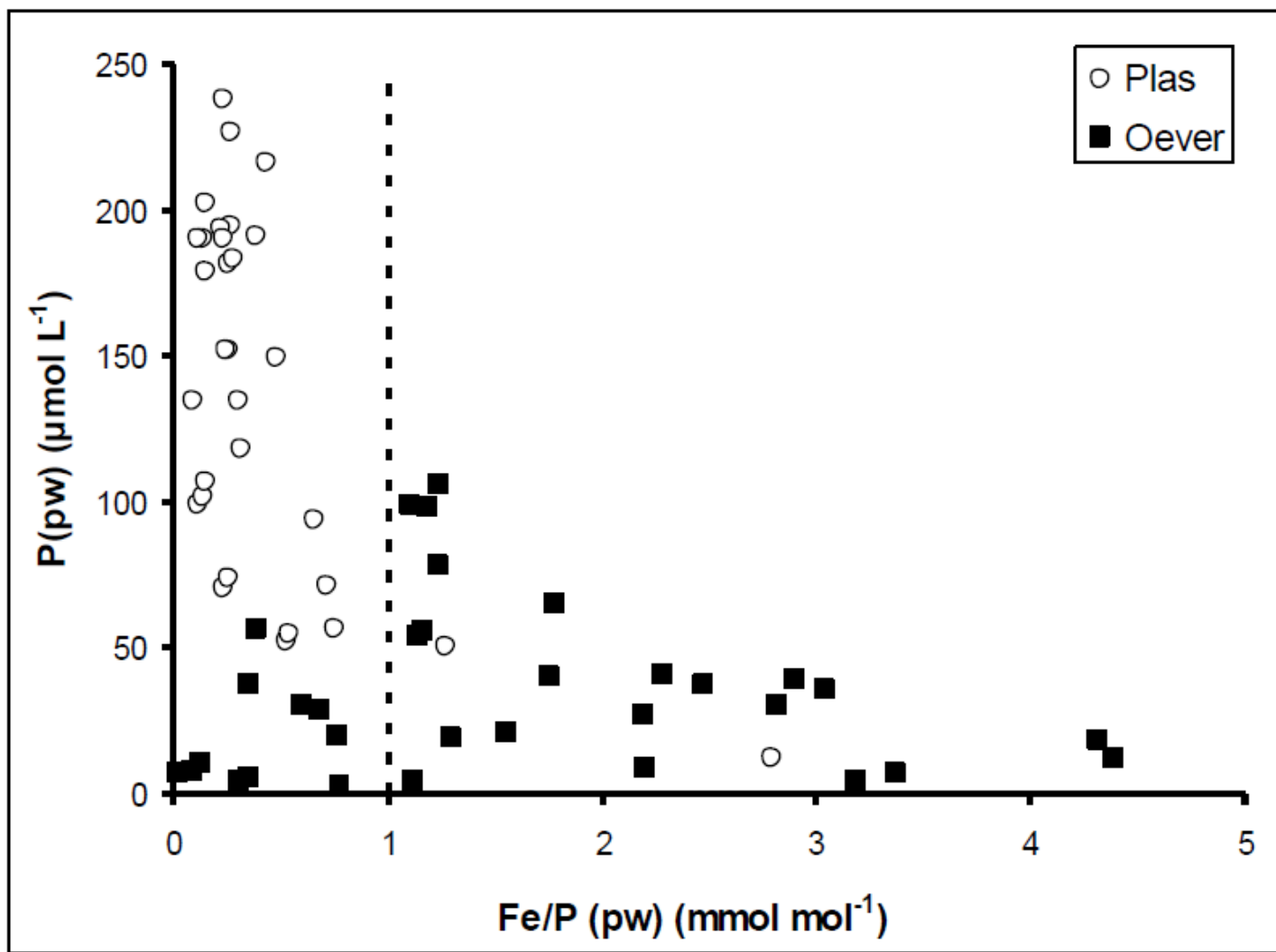
Bijv. Ouderkerkerplas

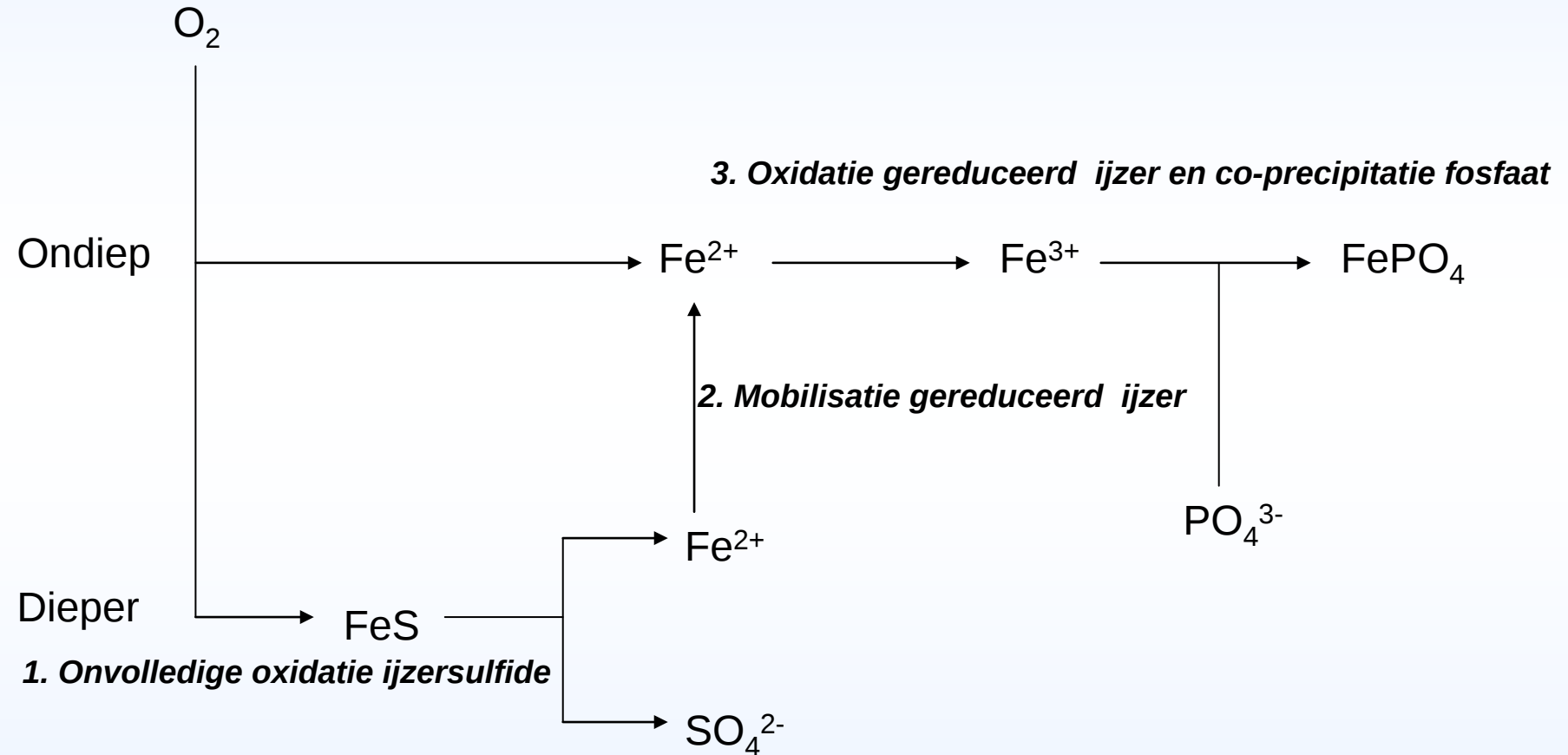


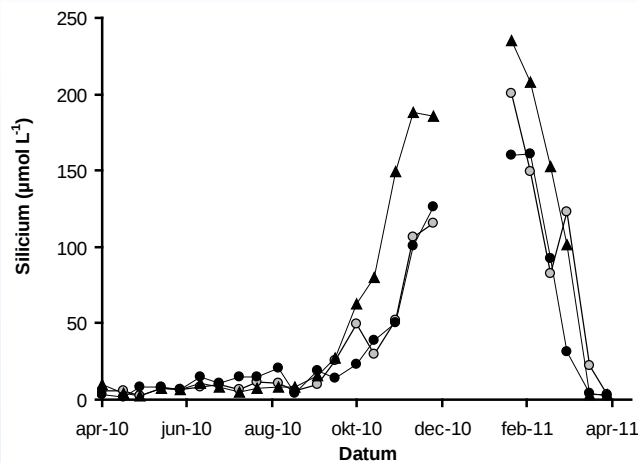
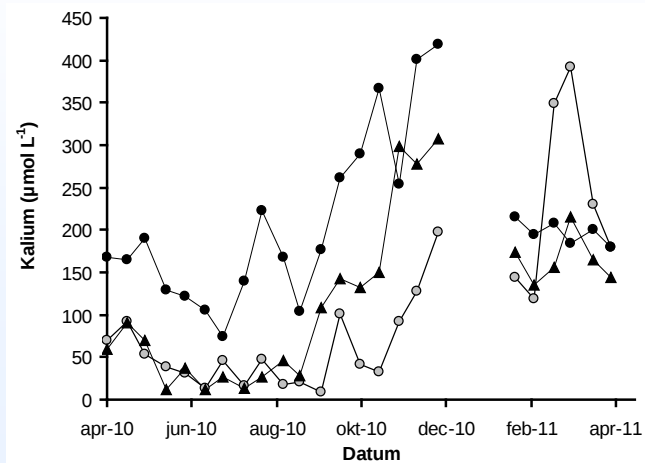
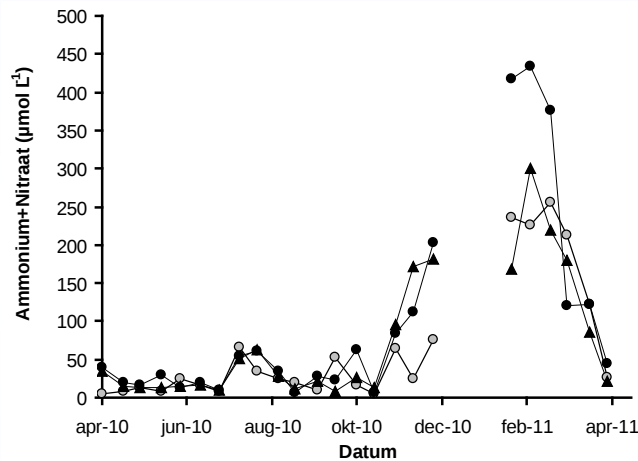
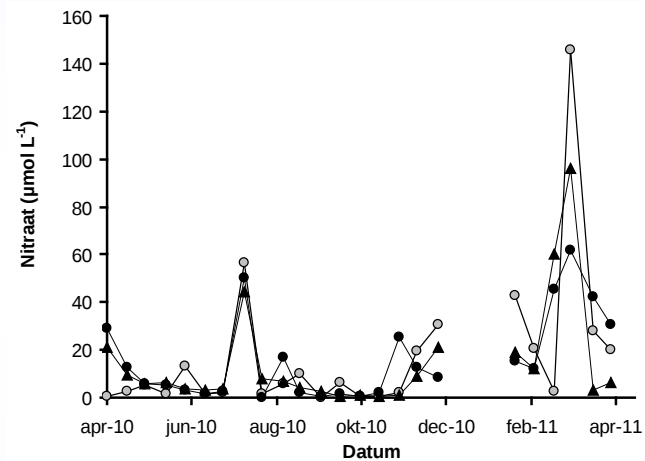
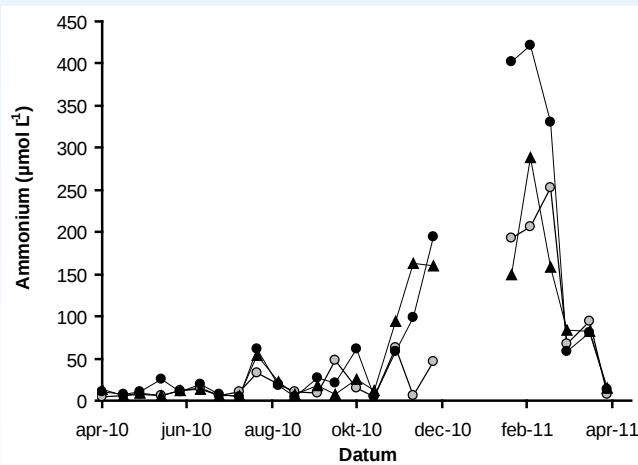
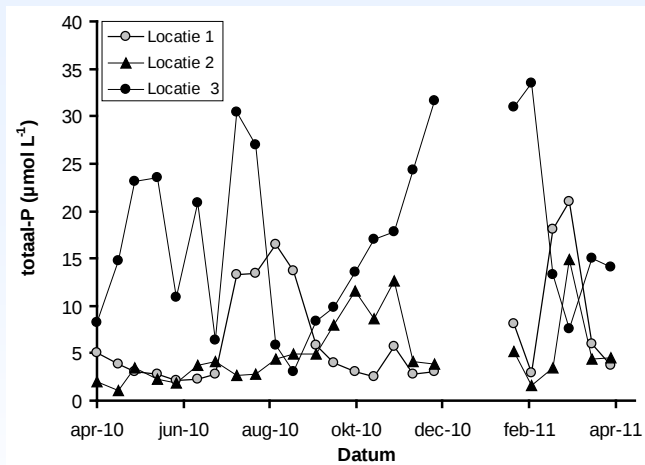
Oxidatie hypolimnion Ouderkerkerplas



Echter:



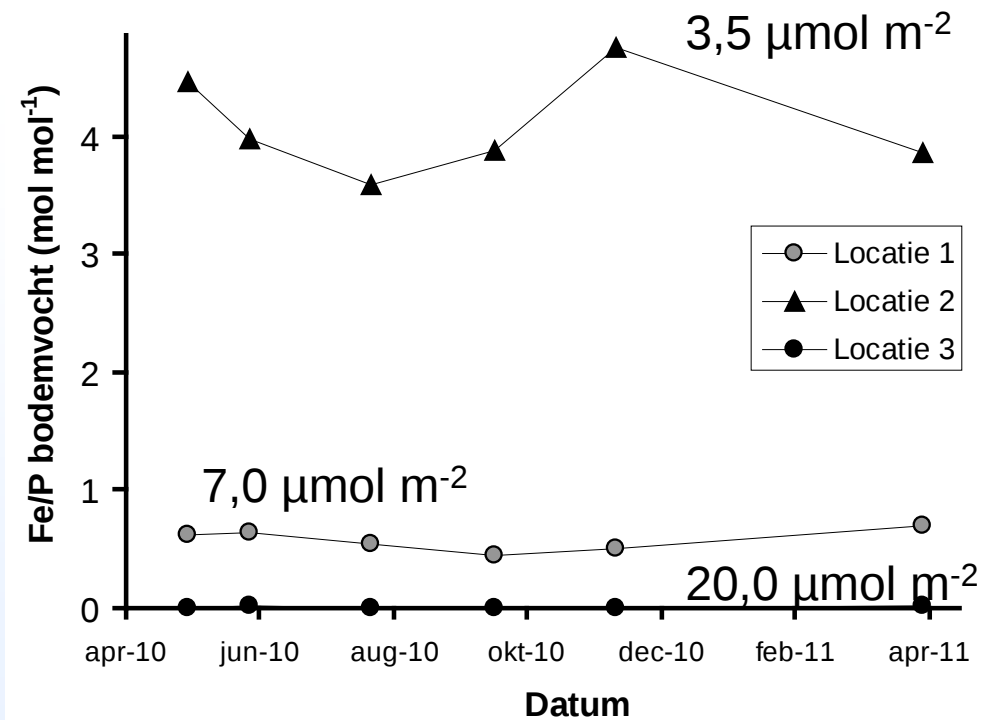
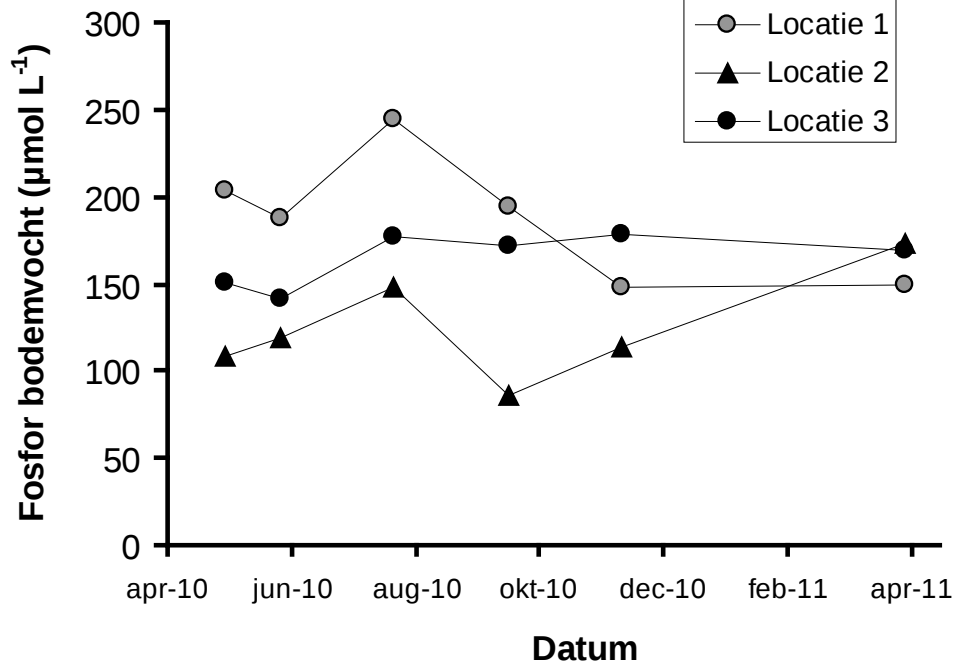




**Kwaliteit
Oppervlaktewater drie
sloot locaties**

**Vastlegging nutriënten in
Algen en waterplanten in
zomer**

Kwaliteit Poriewater van de bodem voor drie sloot locaties



Metingen in bodemvocht kunnen indicatief zijn voor gemiddelde
waterkwaliteit

