

De Chemie van IJzerrijke venen

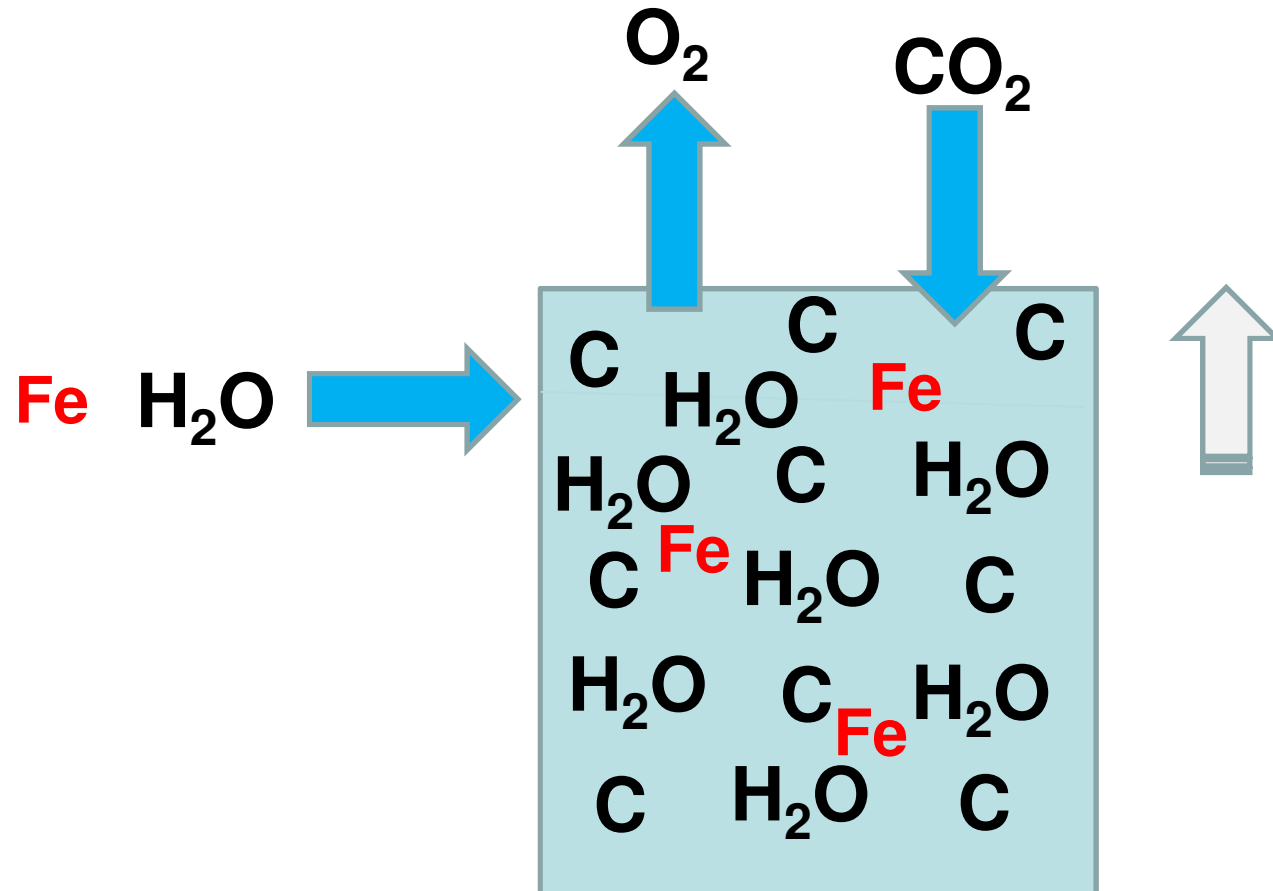
Fons Smolders

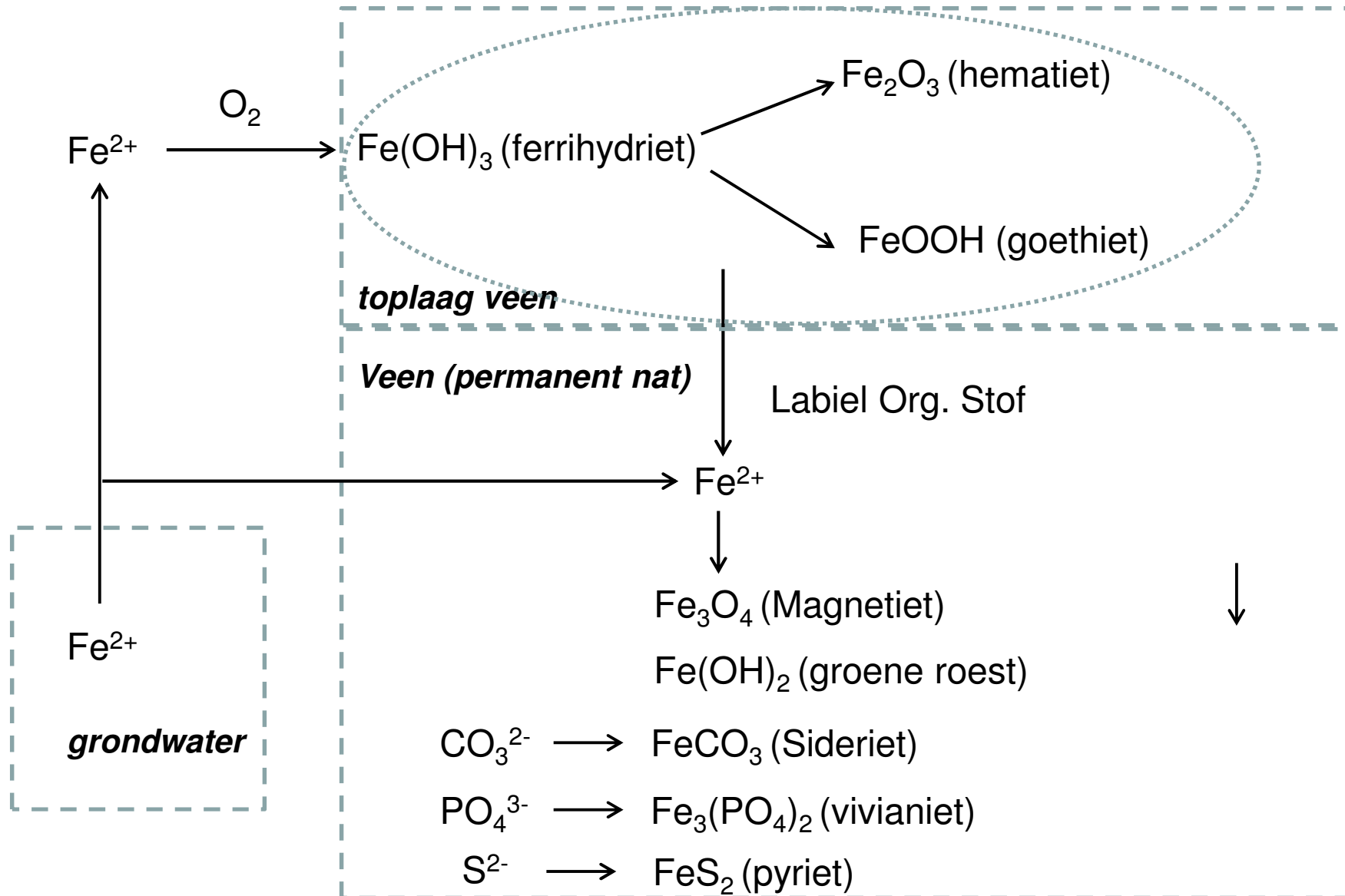
Onderzoekcentrum B-WARE/Radboud Universiteit



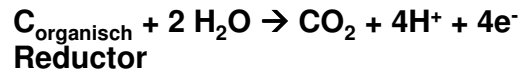
Radboud Universiteit Nijmegen







Afbraak van organisch materiaal:

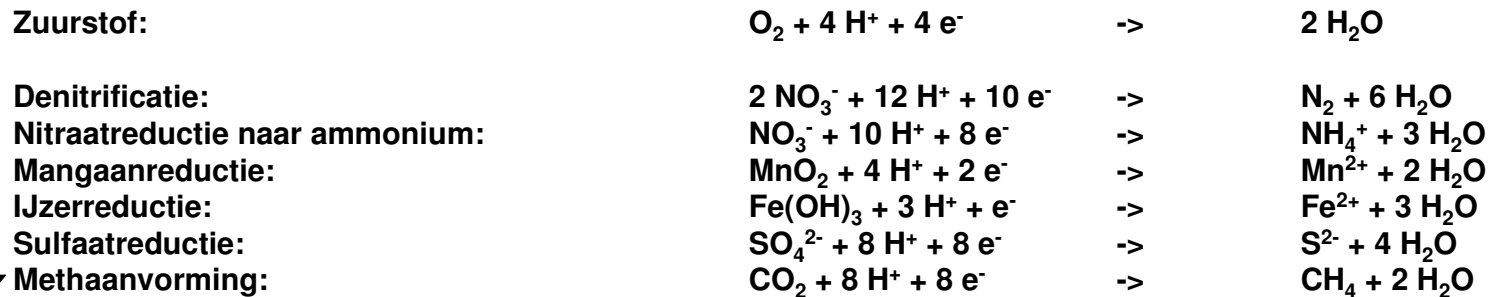


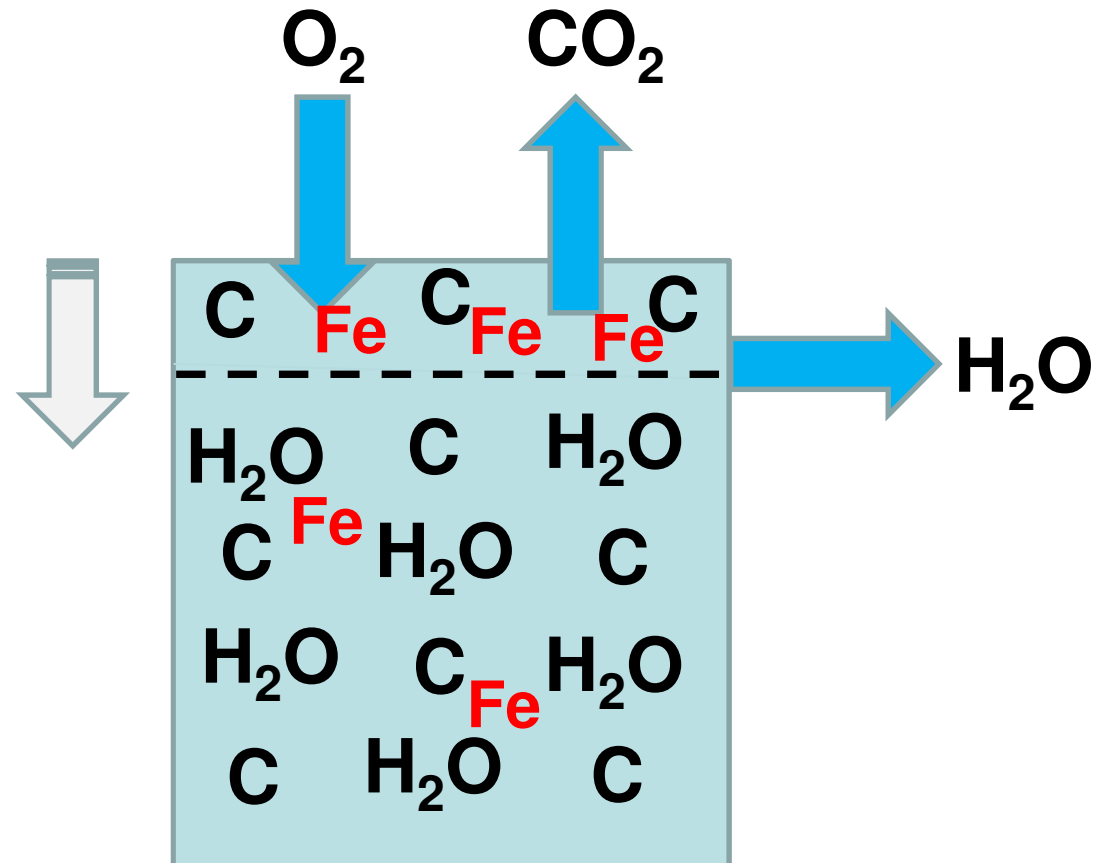
Electronen kunnen niet vrij voorkomen in de natuur. Deze reactie kan dus alleen verlopen indien er tegelijkertijd een reactie plaatsvindt waarbij de electronen worden geconsumeerd.

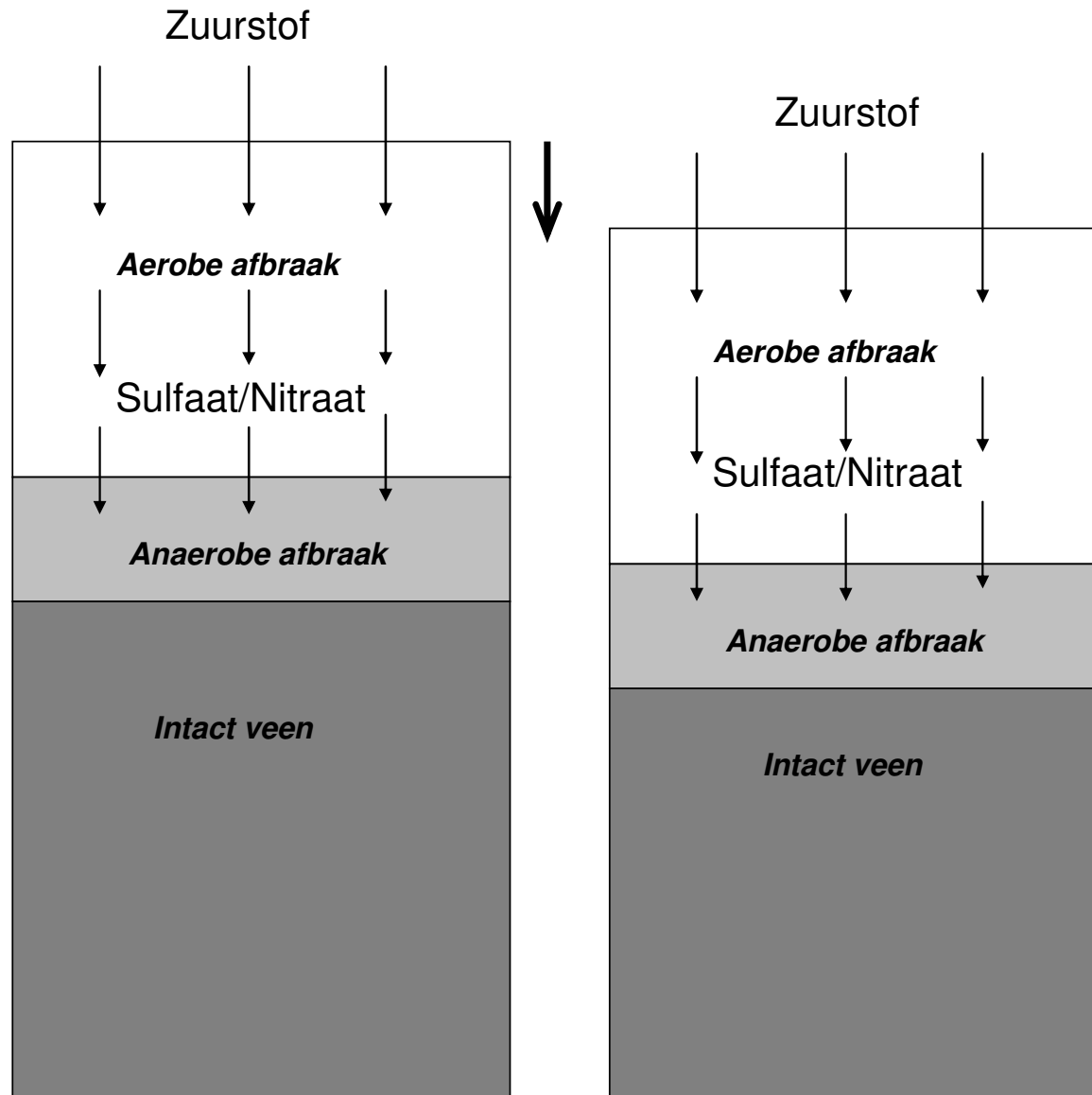
De oxidator wordt ook wel elektronenacceptor genoemd

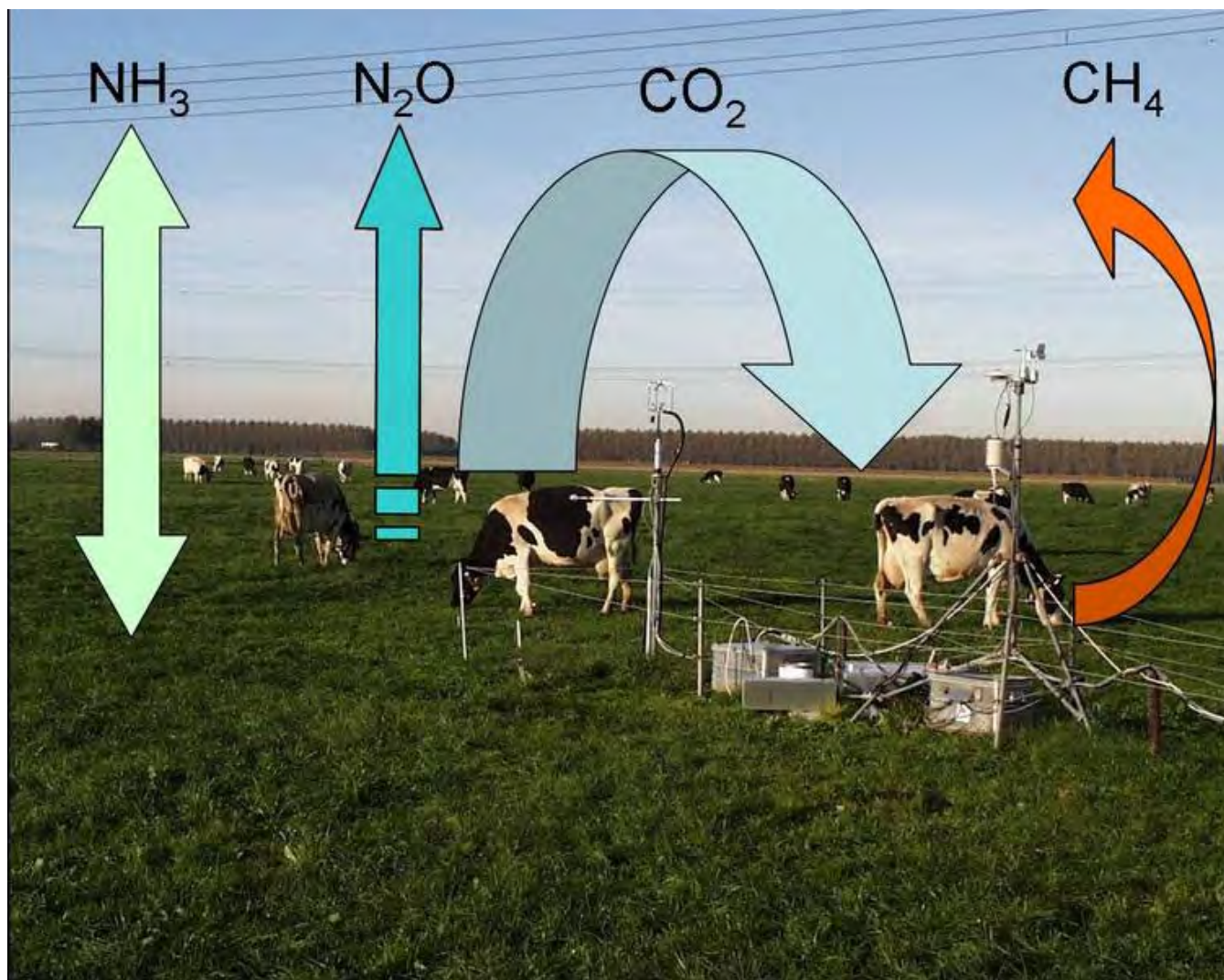
Oxidatoren (met een *voorbeeld* van een bijbehorende reactie):

Afnemende affiniteit

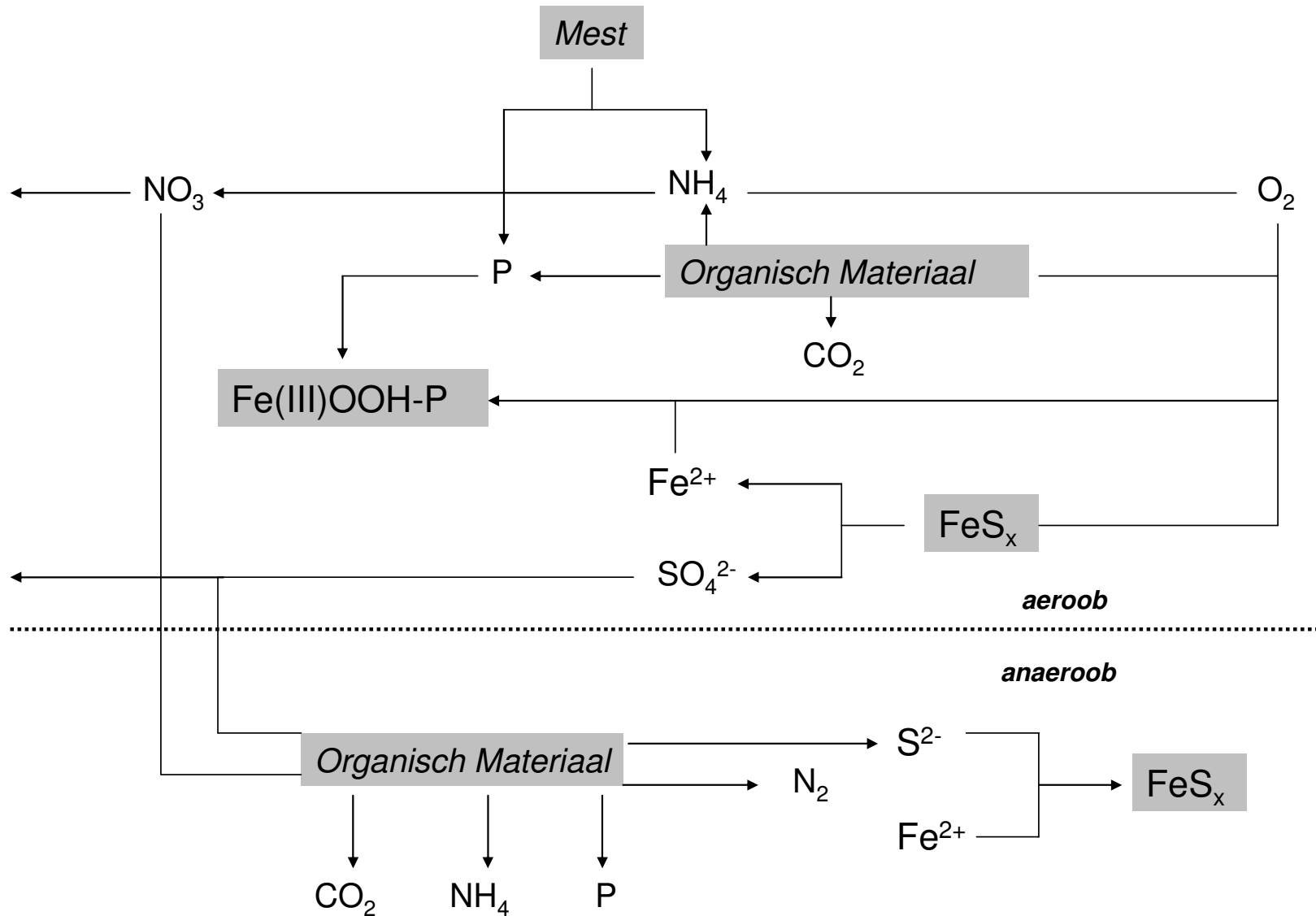






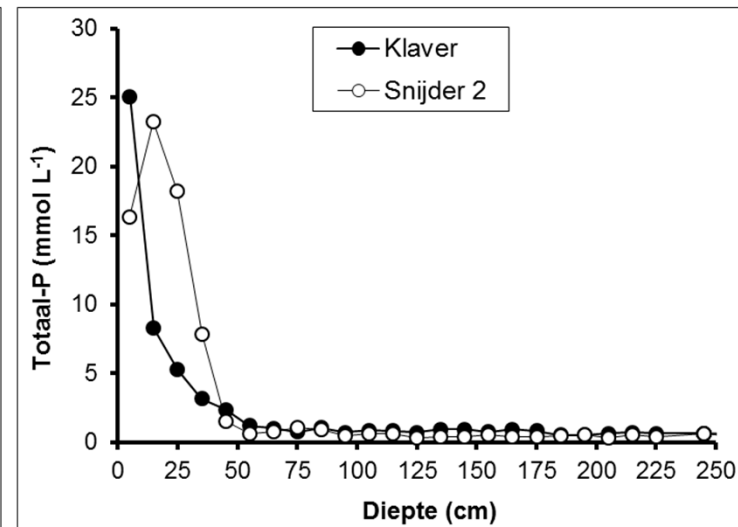
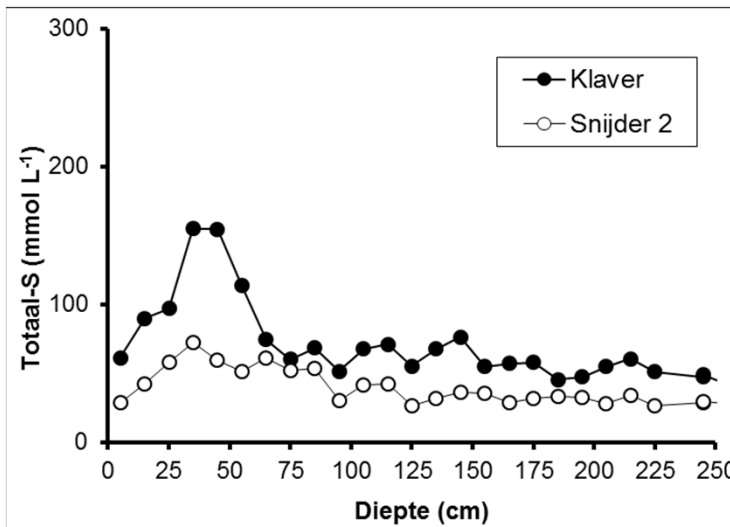
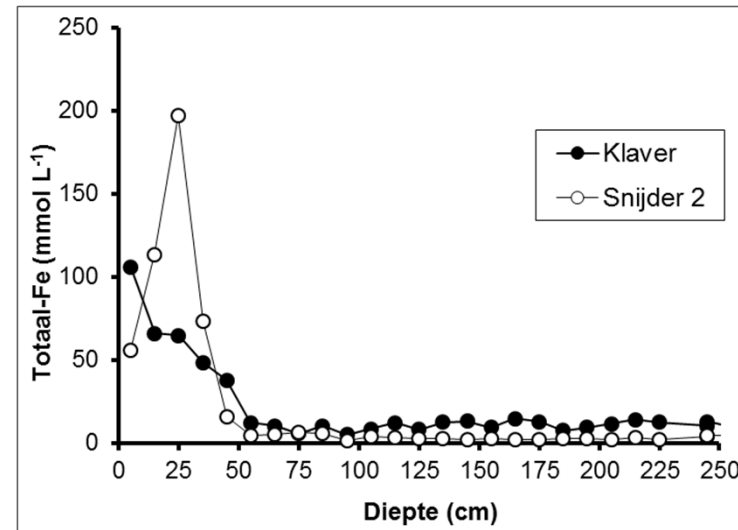
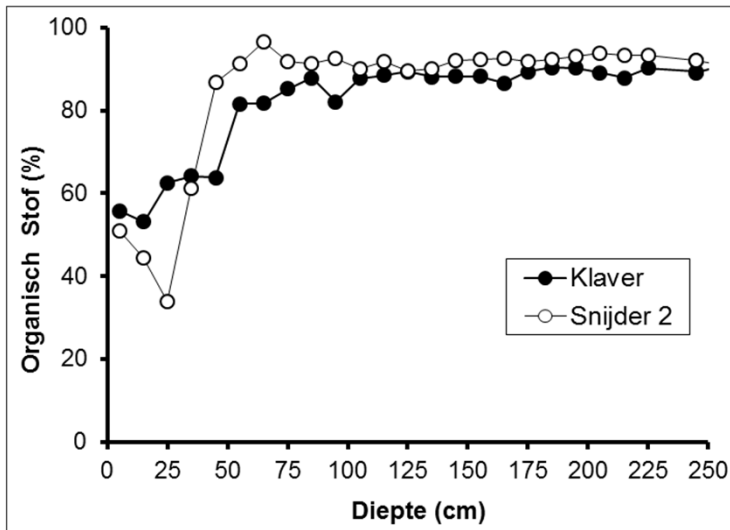


Oxidatieprocessen veen

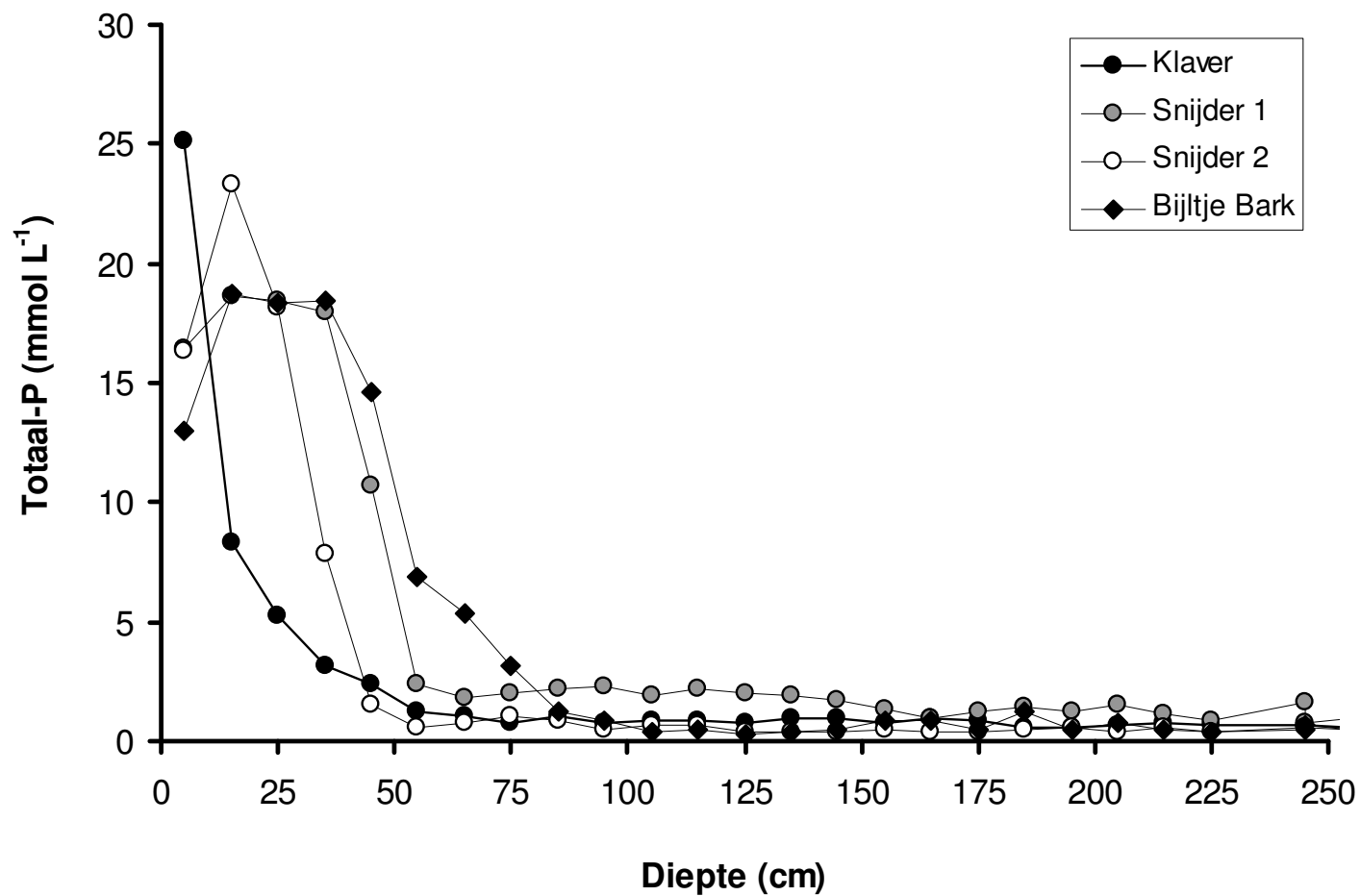


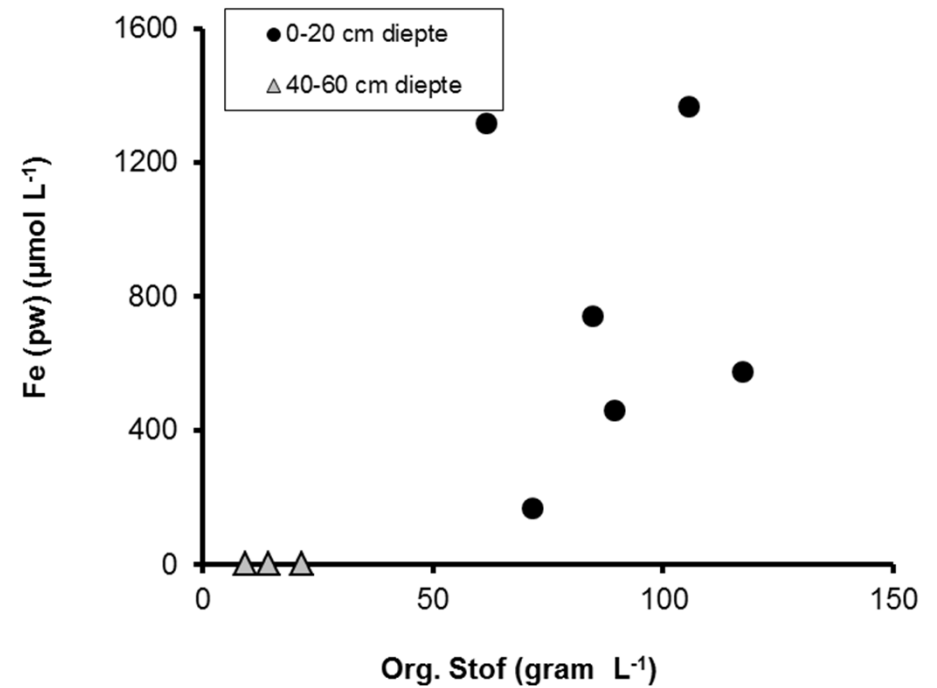
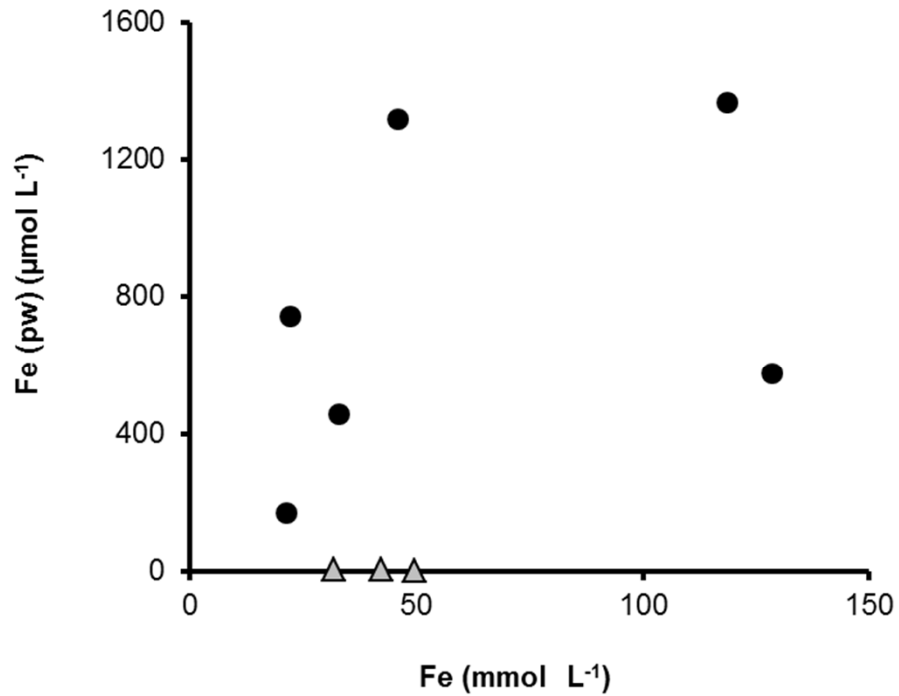
Vaste bodemfracties

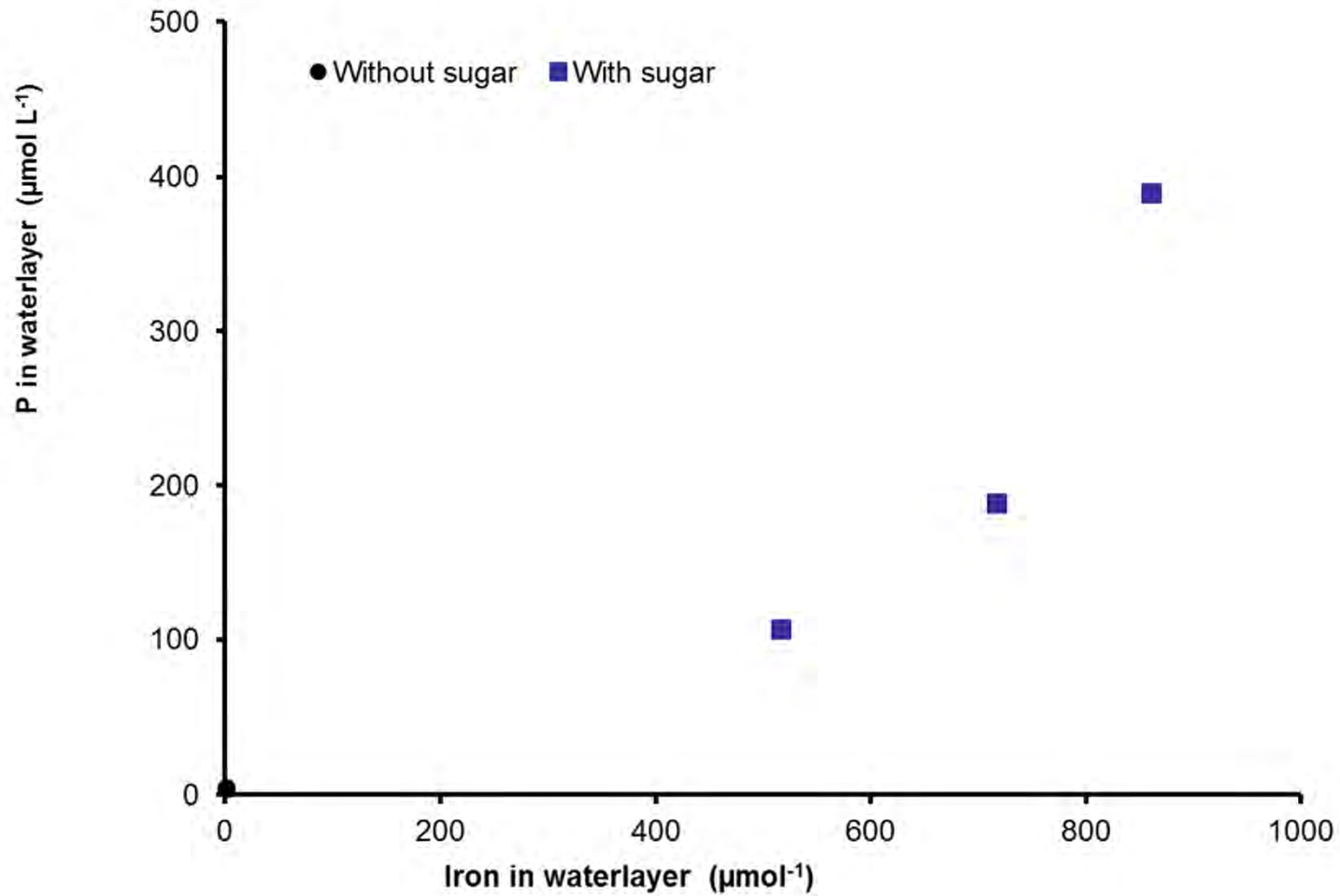
Voorbeeld van bodemprofielanalyses in het Wormer en Jisperveld



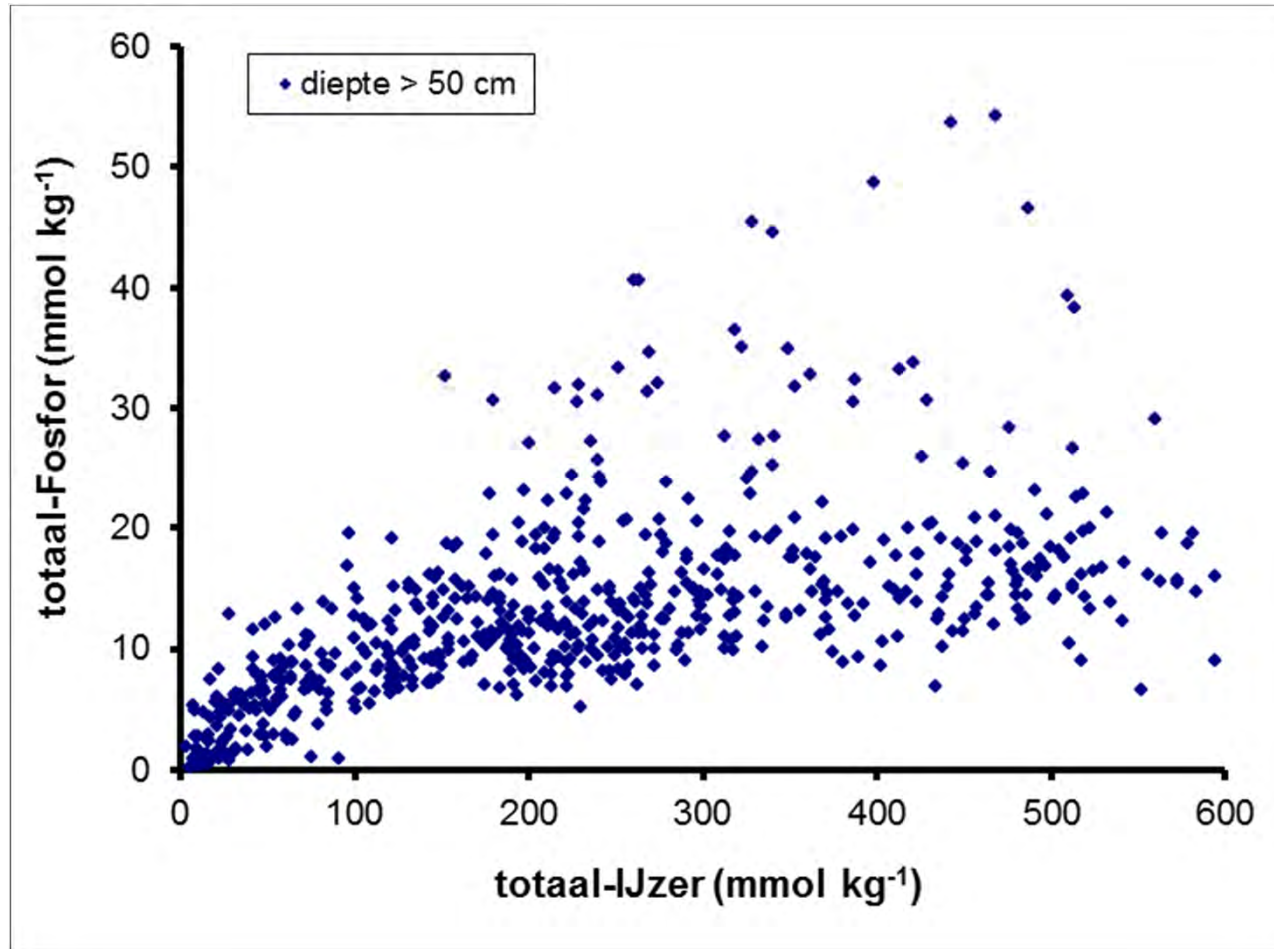
Fosfor profielen voor verschillende percelen in Wormer- en Jisperveld (in mmol per liter bodem volume). Meeste fosfor zit in de toplaag.



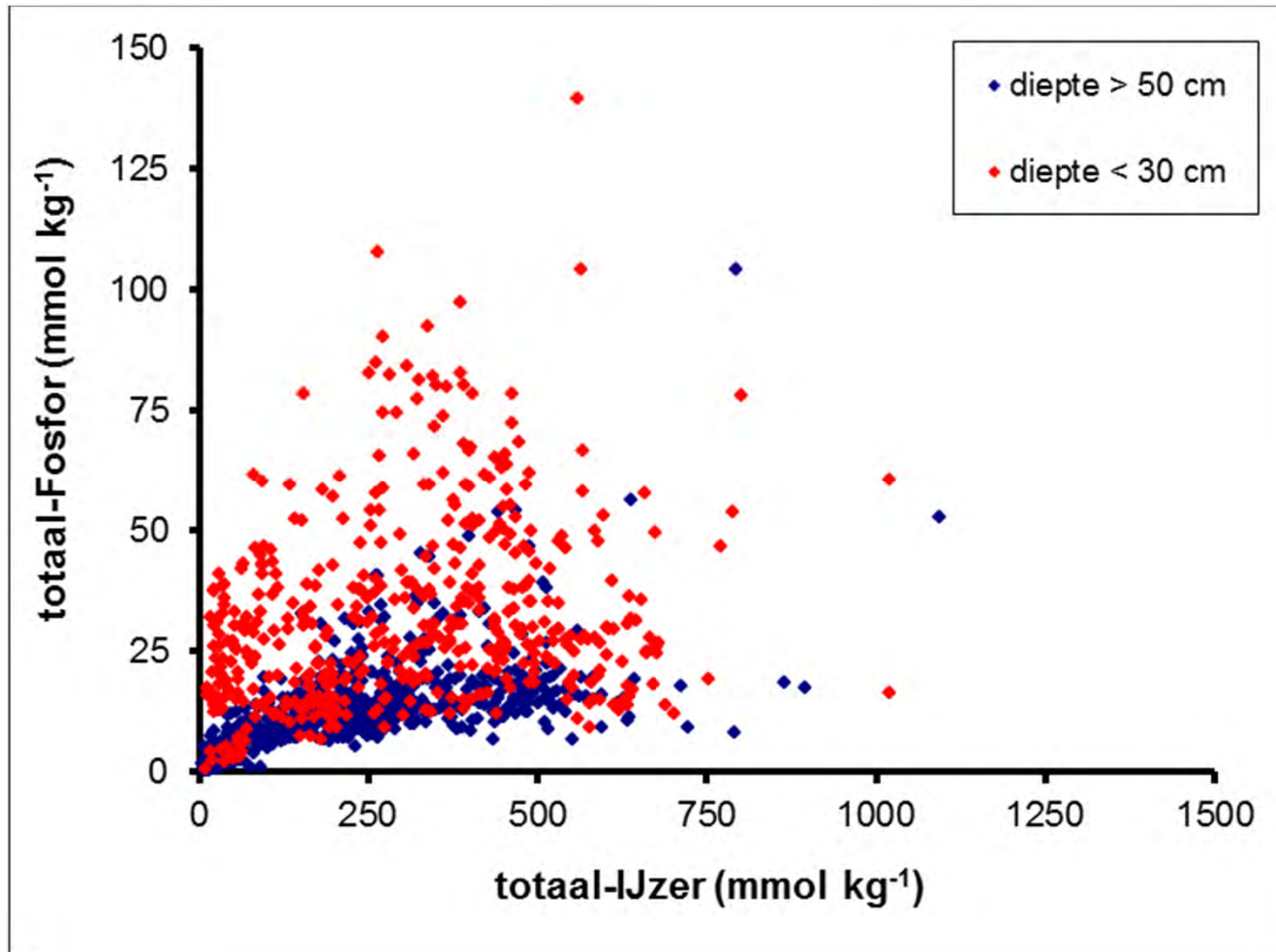


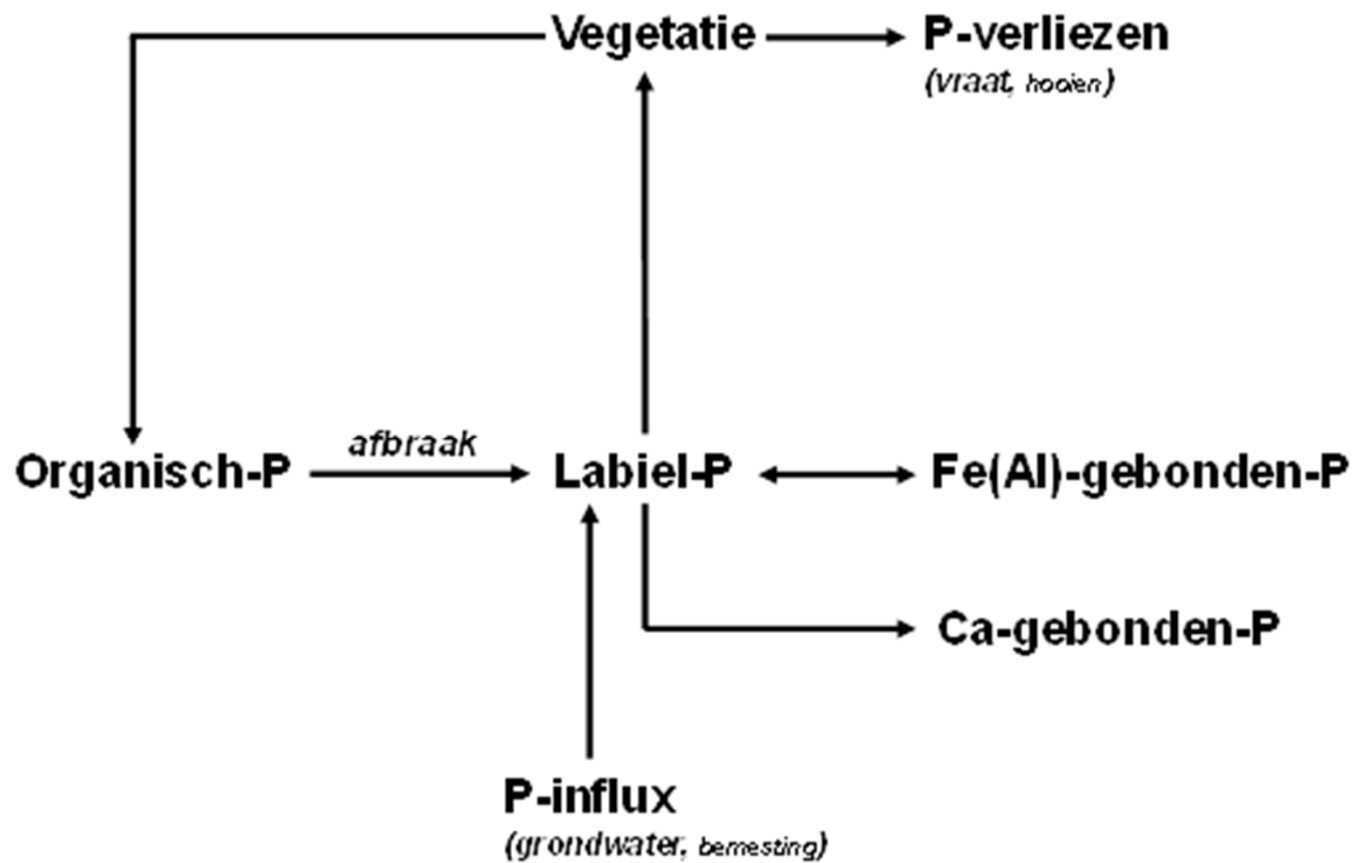


IJzerrijke bodems zijn rijk aan fosfor



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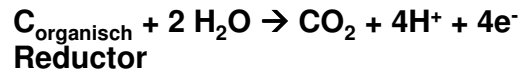




Tusschenwater (Drenthe)



Afbraak van organisch materiaal:

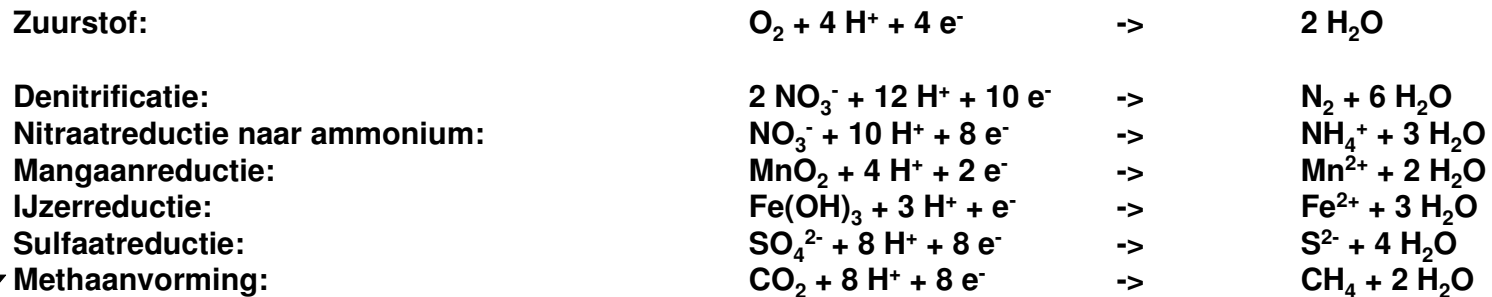


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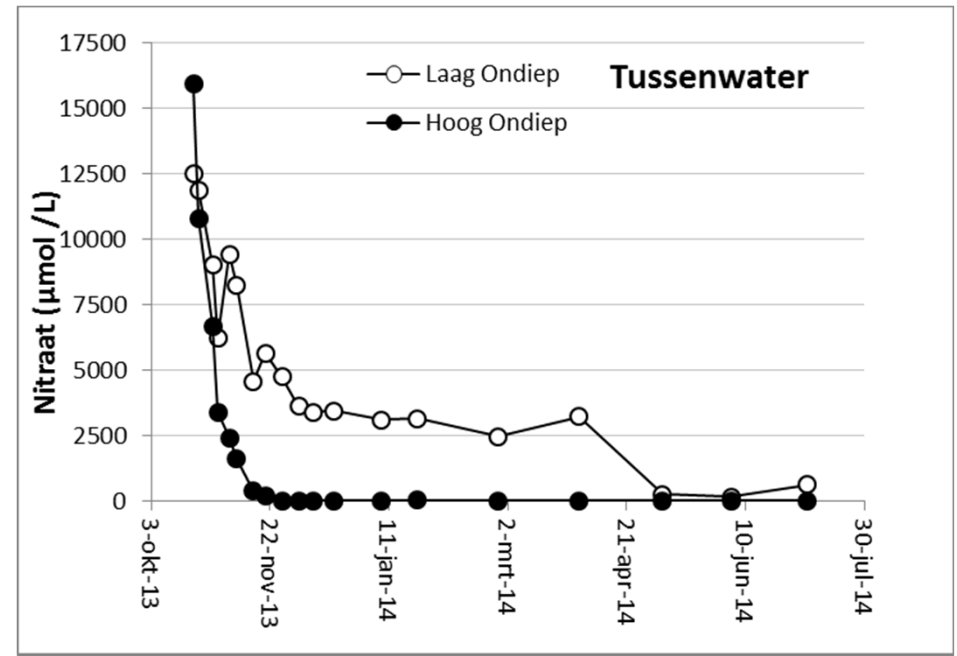
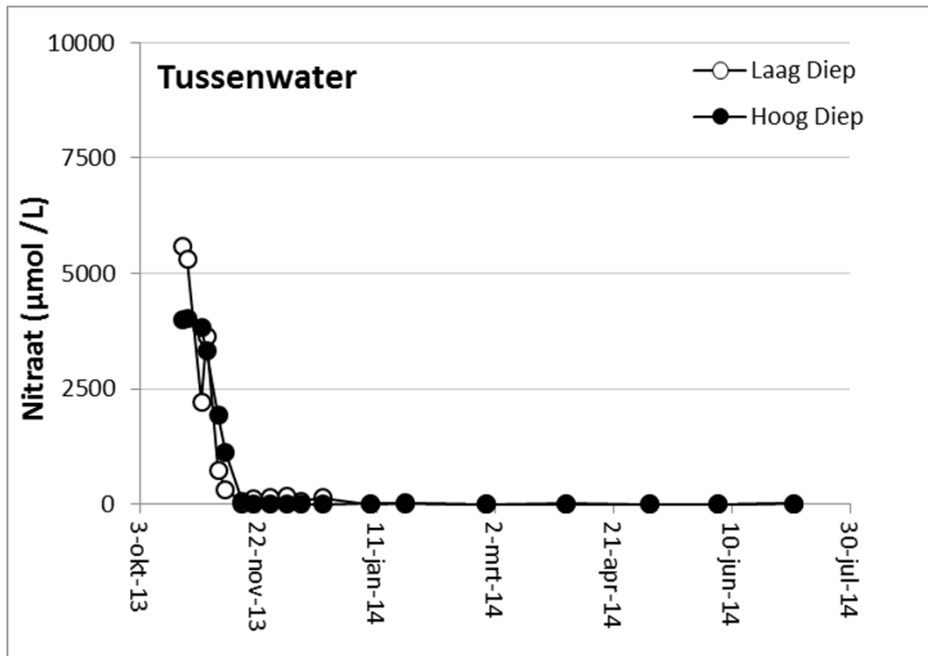
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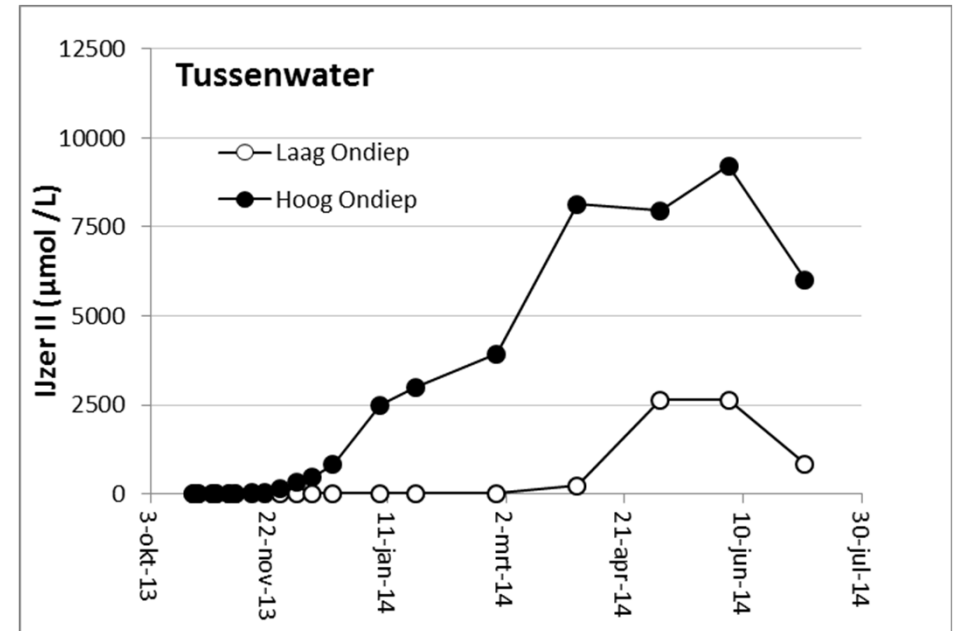
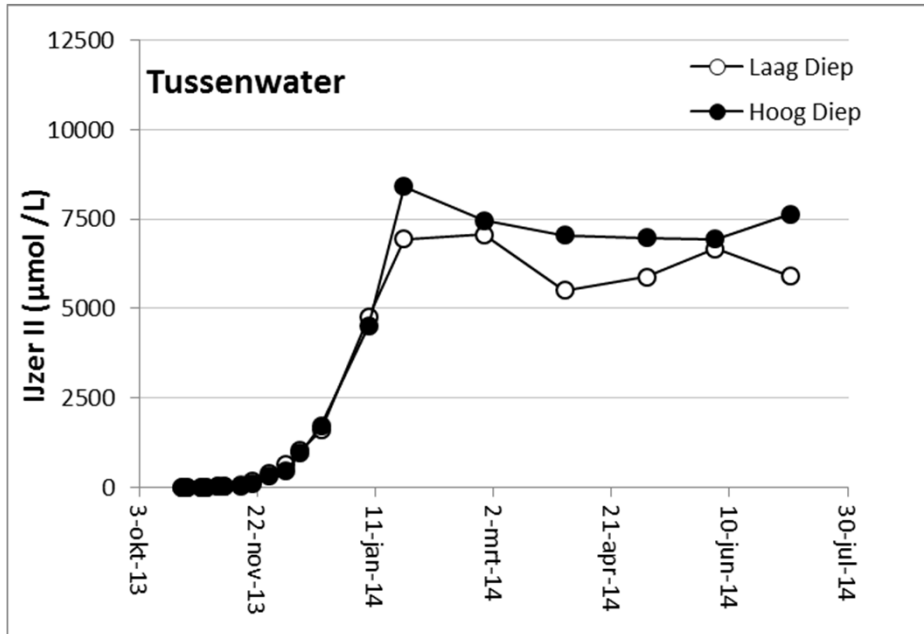
Afnemende affiniteit



Vernatten van ijzerrijk veen

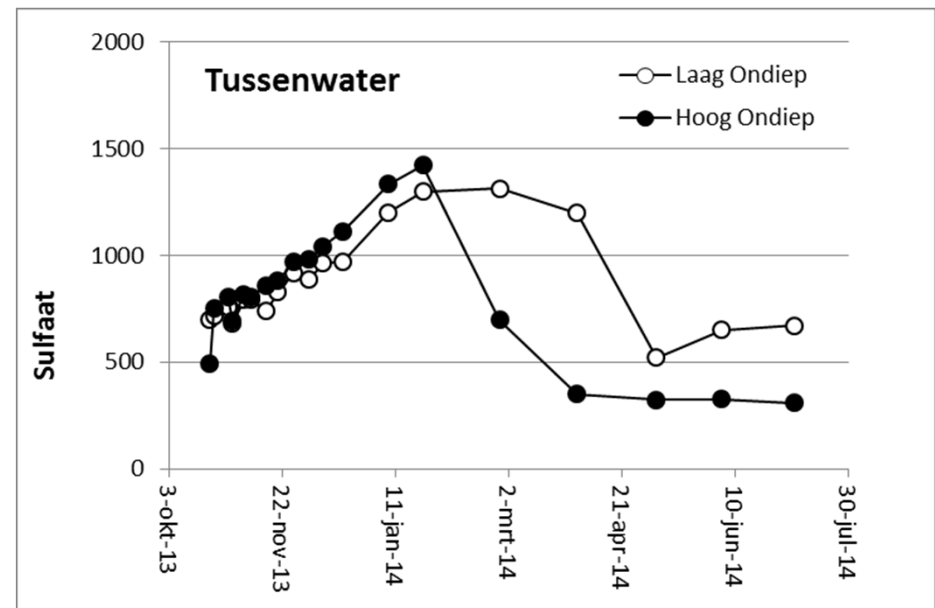
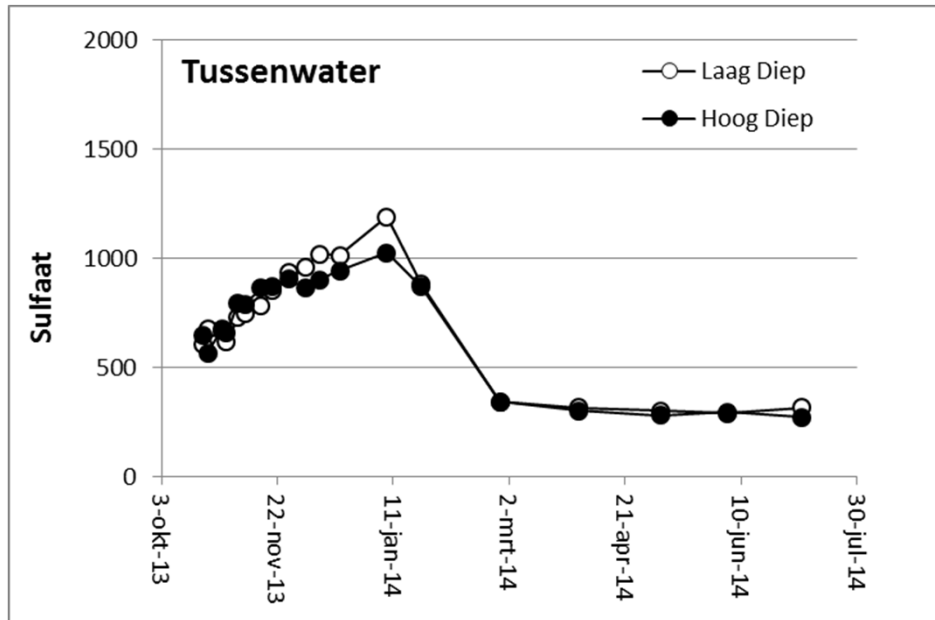


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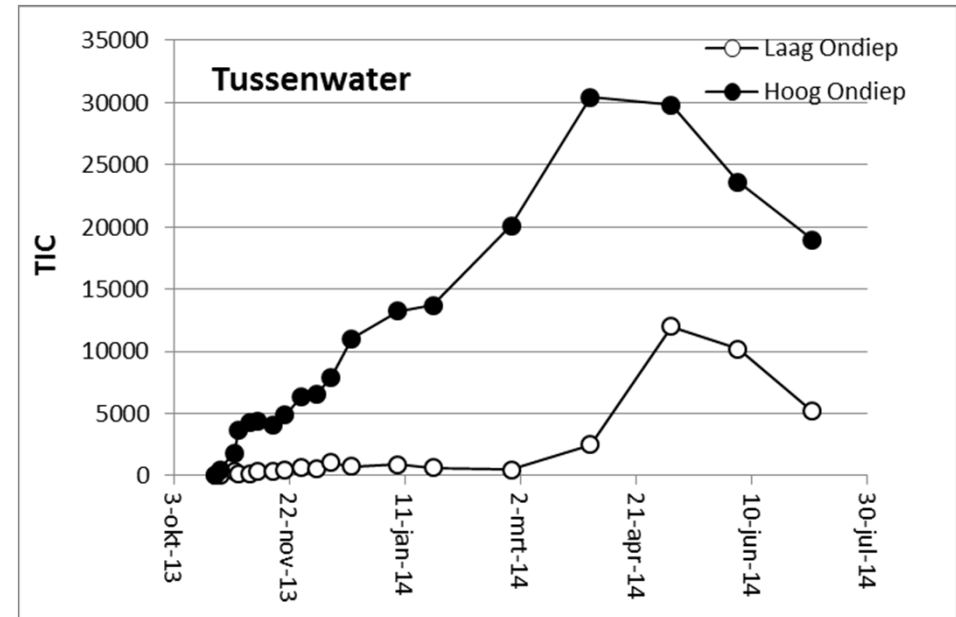
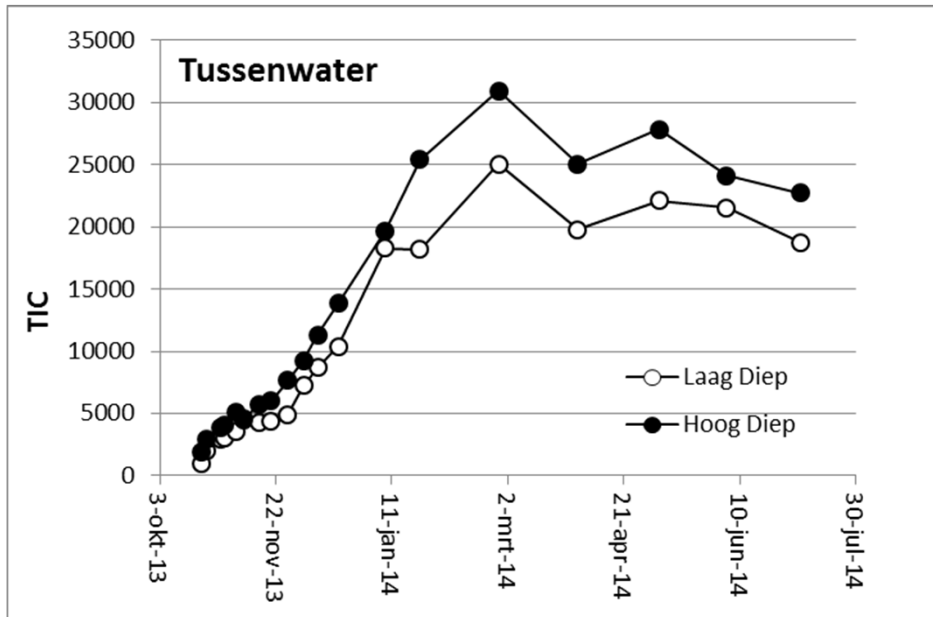




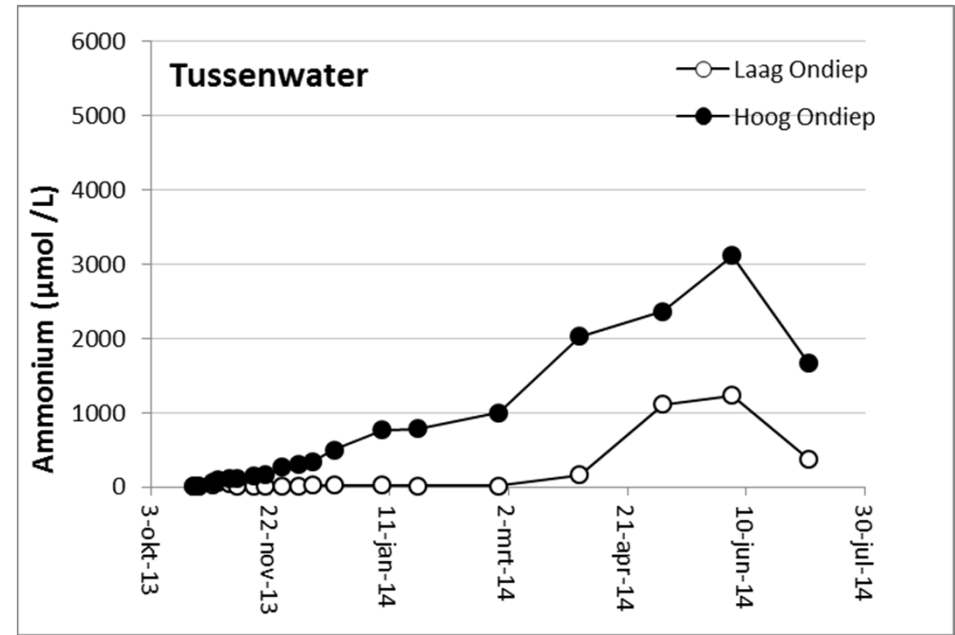
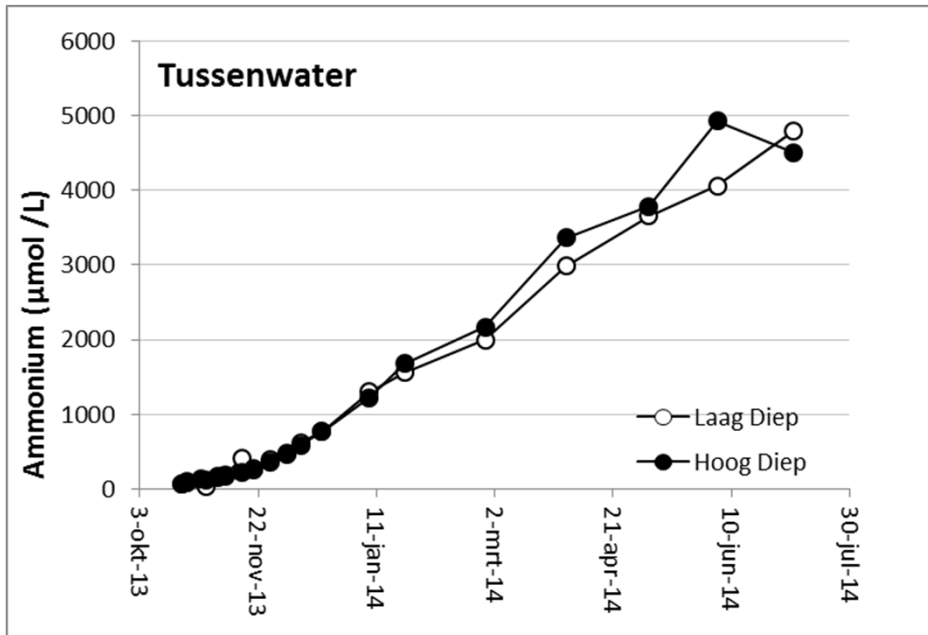
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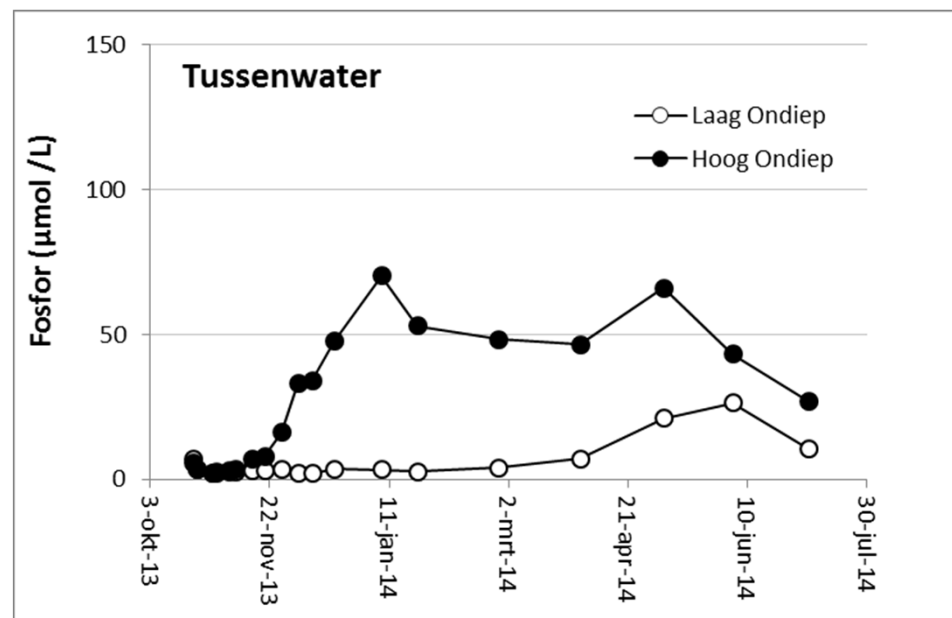
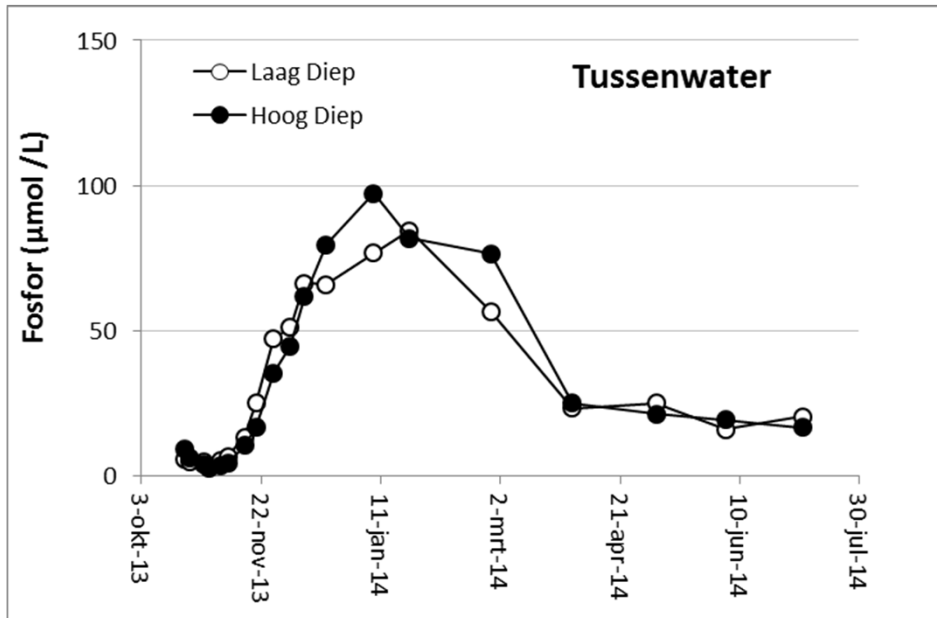
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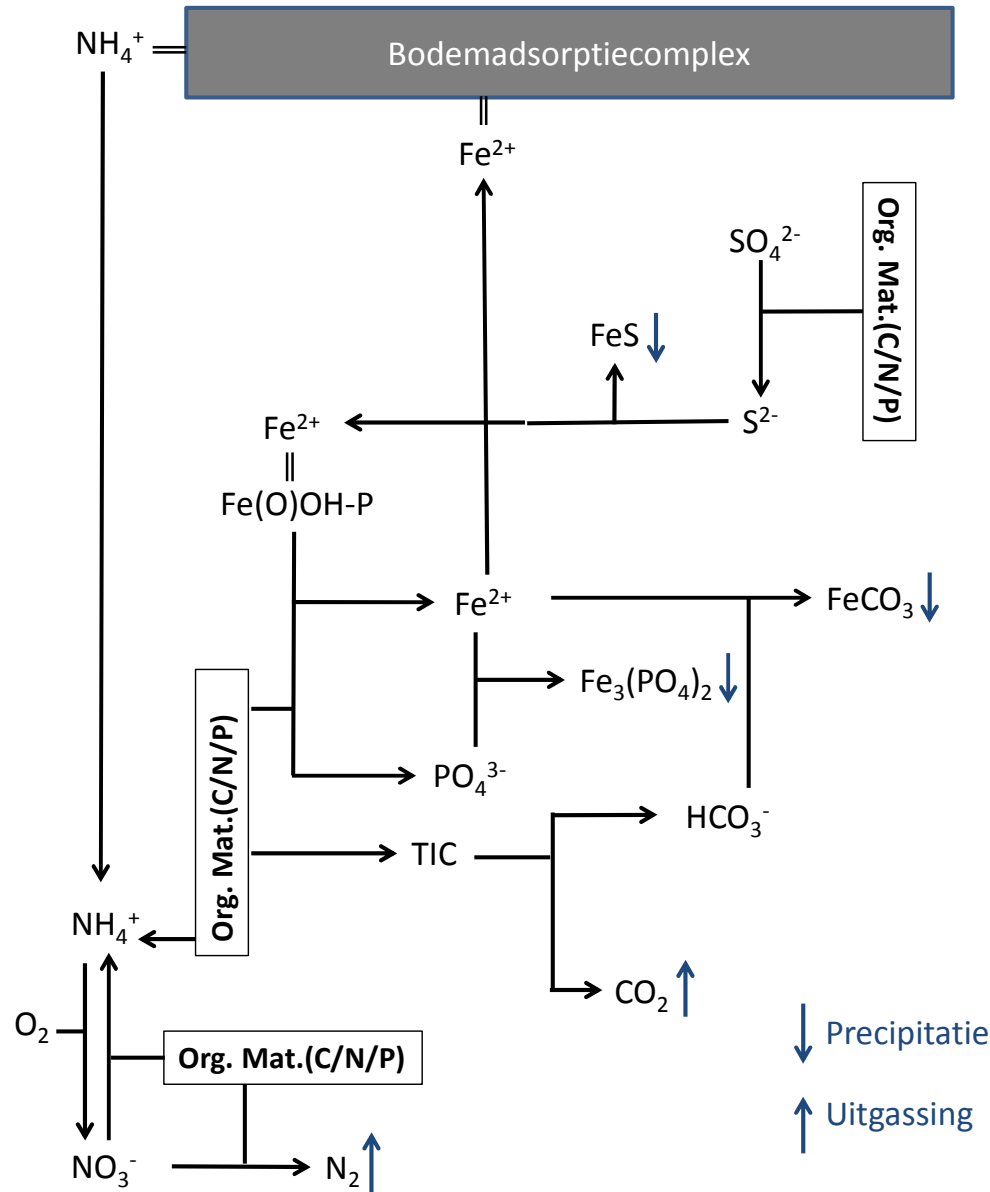
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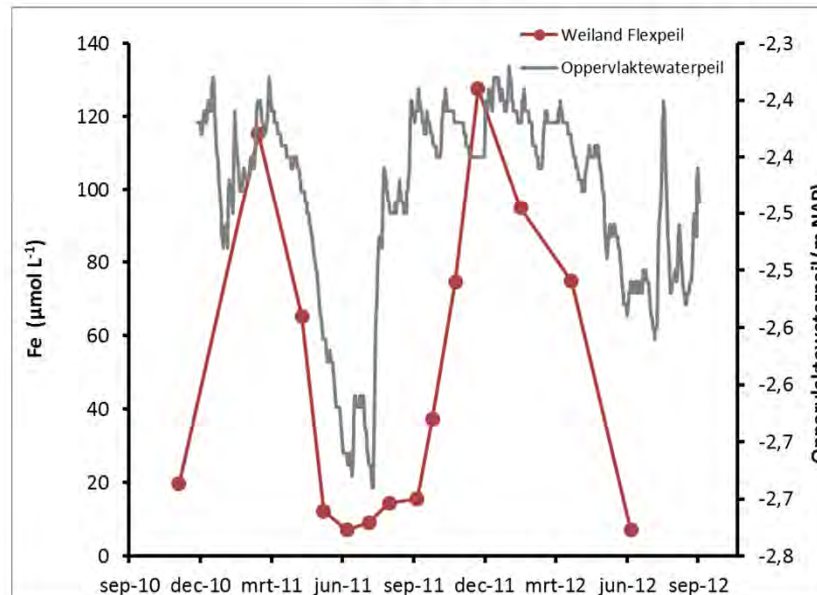
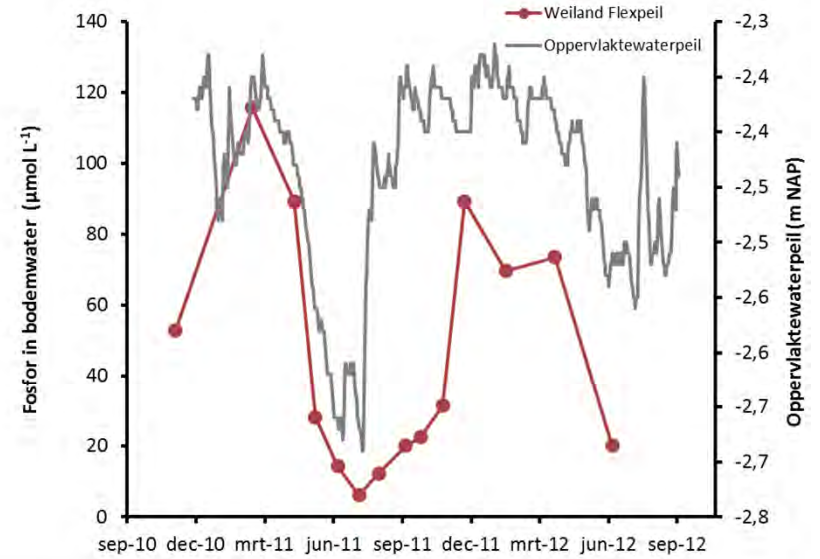
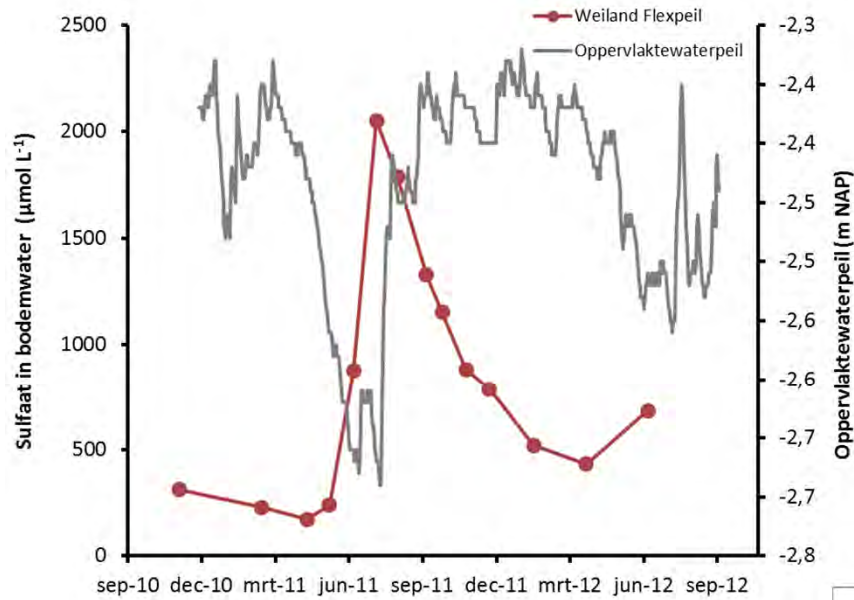
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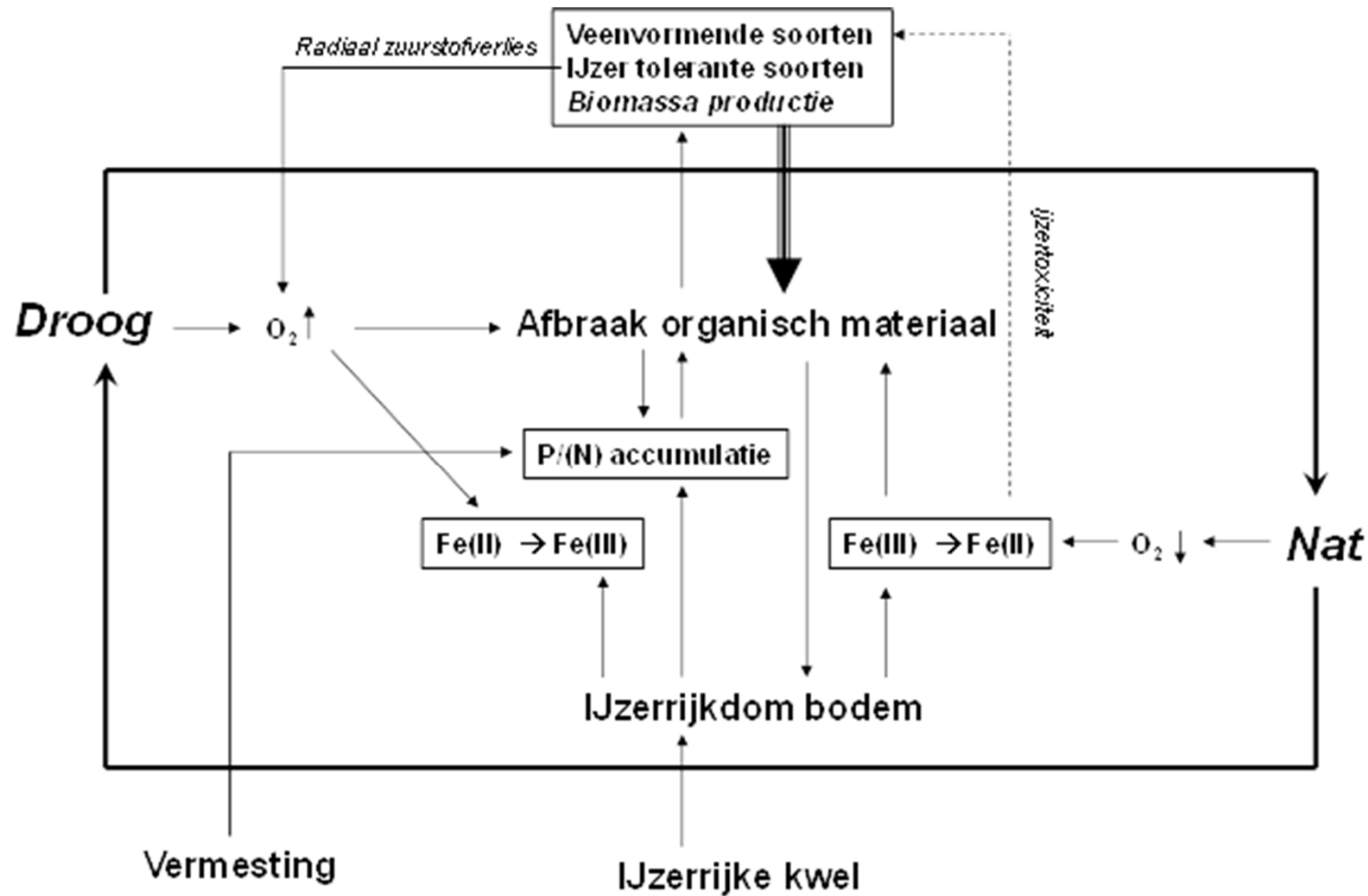


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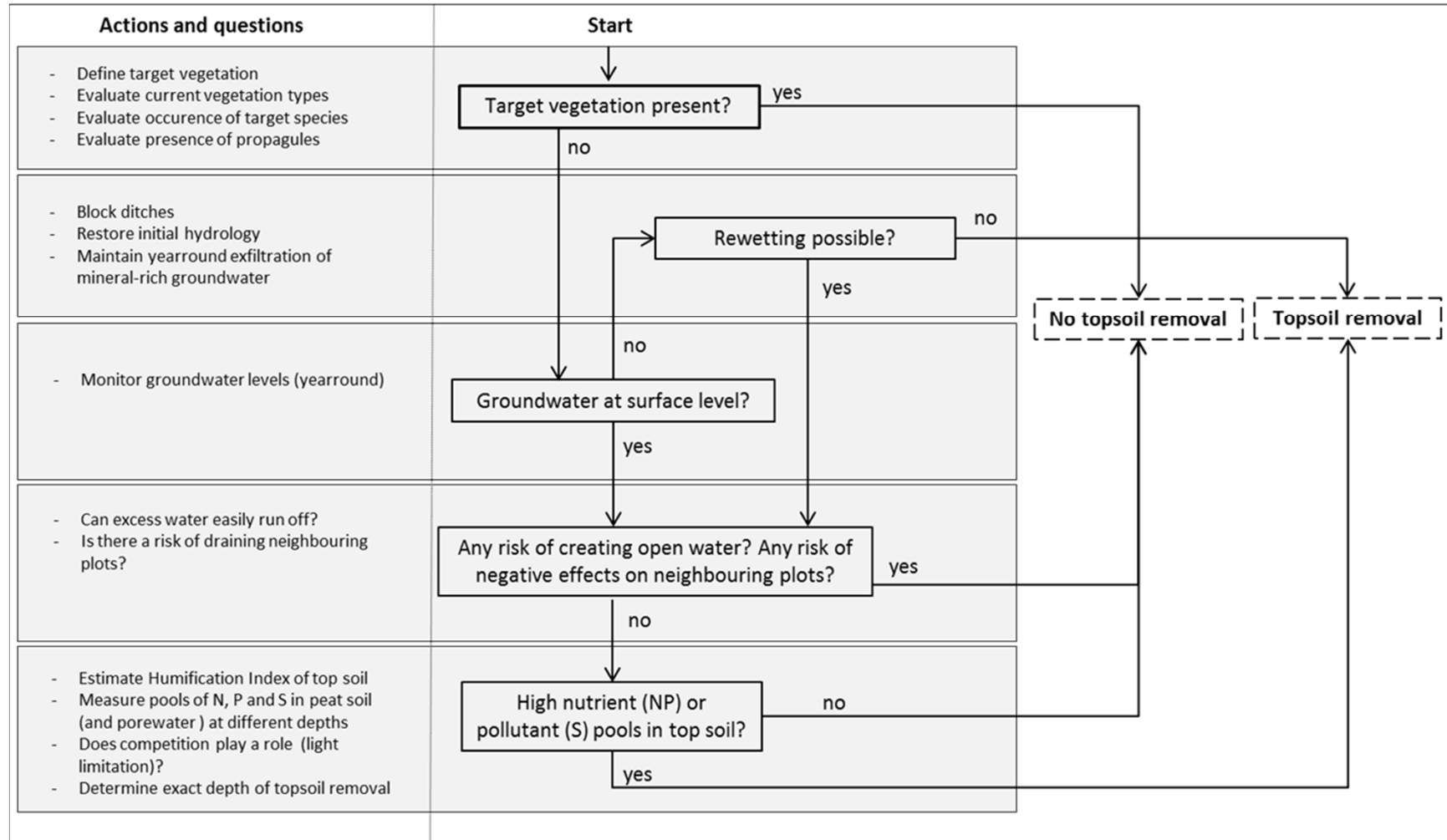


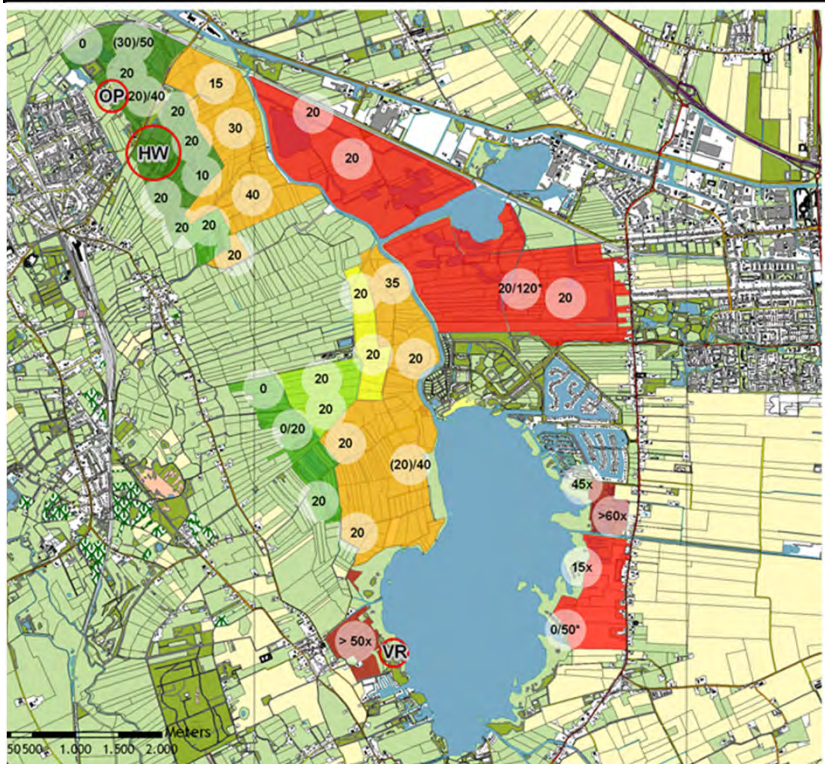
Hoge of lage waterstanden?





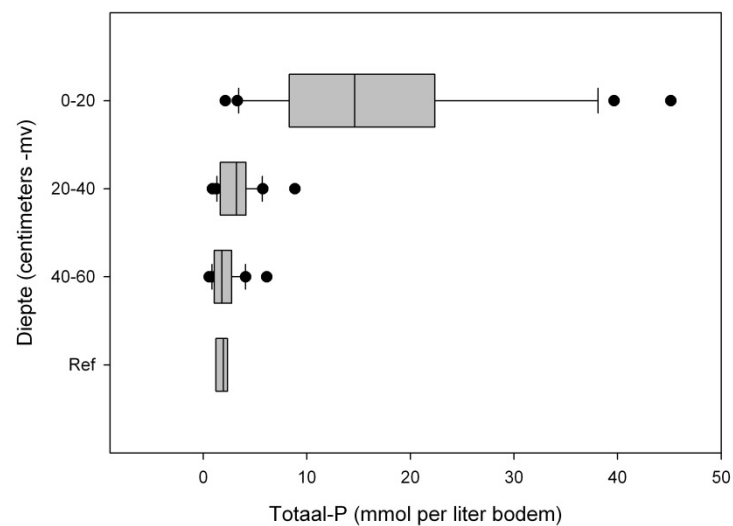
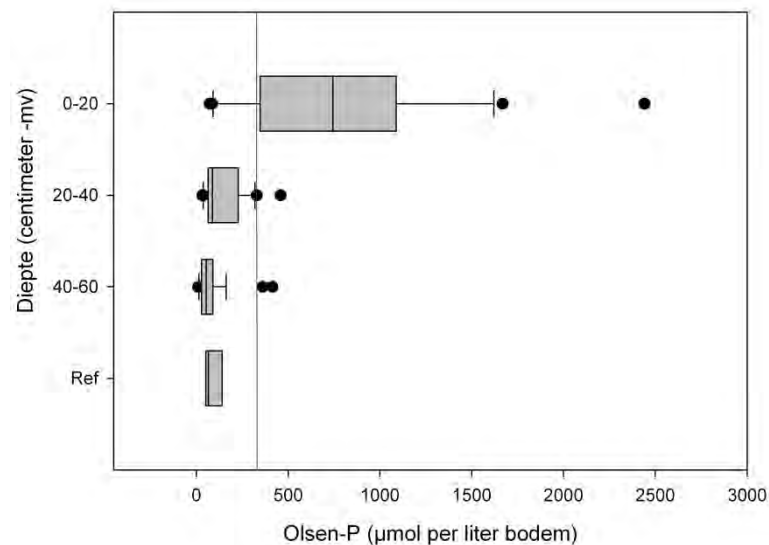
Afplaggen toplaag????





Legenda:

- 20 ontgrondingsdiepte (cr = op veenbodem, () = op kleibodem, x = op zandbodem, * = inclusief zandpal)
- Kansrijkdom veenontwikkelii (Bron: Groninger Landschap)
 - hoog
 - laag
- Referentielocaties:
 - OP Oosterpolder
 - HW Harener Wildernis
 - VR Veenmosrietland

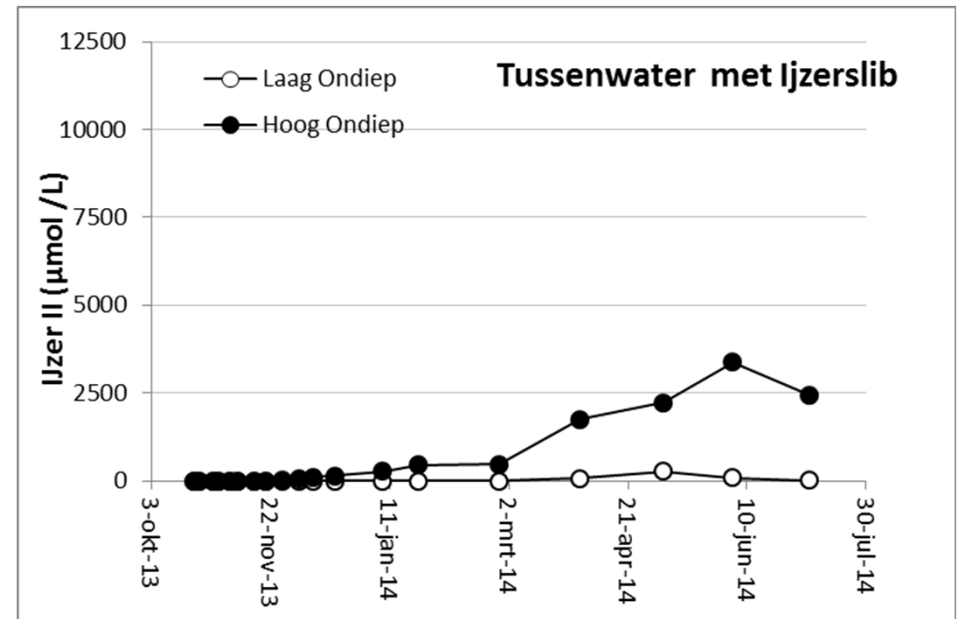
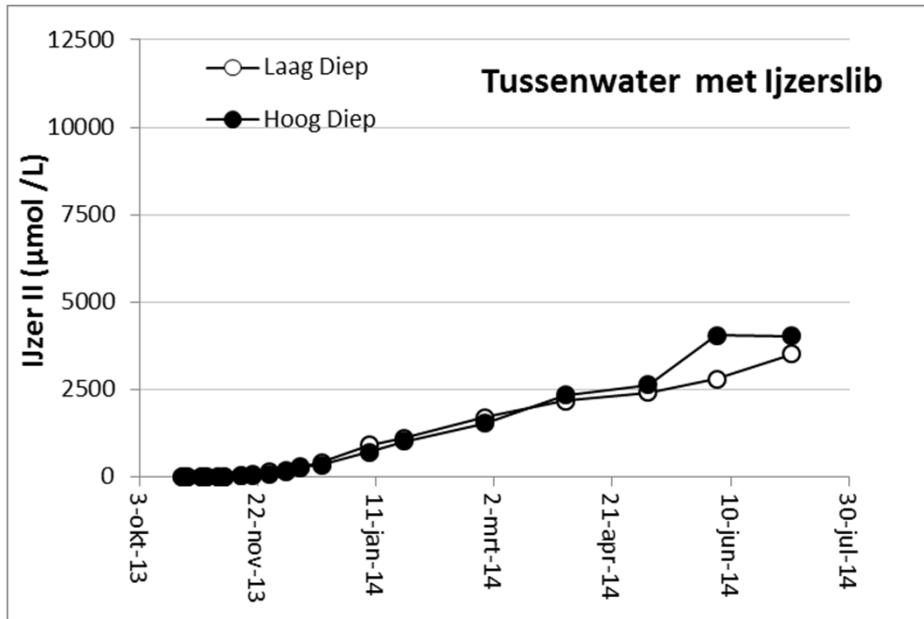




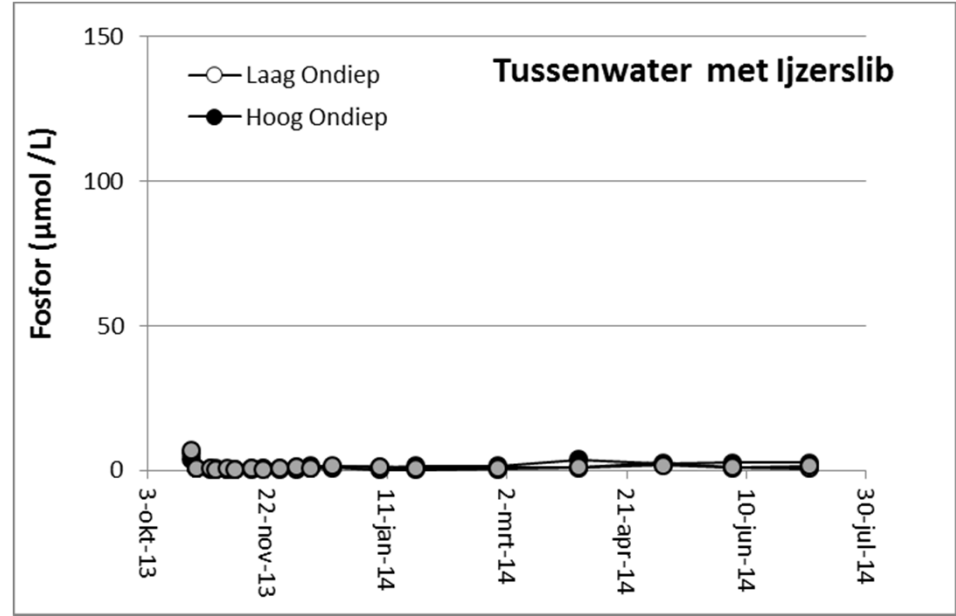
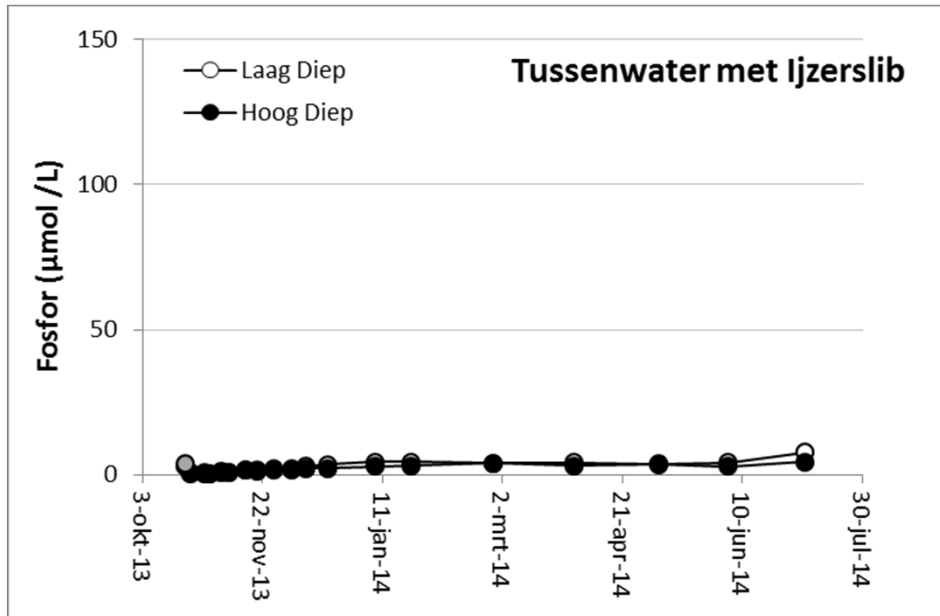
Enkele foto's in de Oosterpolder (Groningen) waar veenmosgroei op gang is gekomen na afplaggen van de toplaag, vooral met soorten die voorkomen onder meer gebufferde omstandigheden.

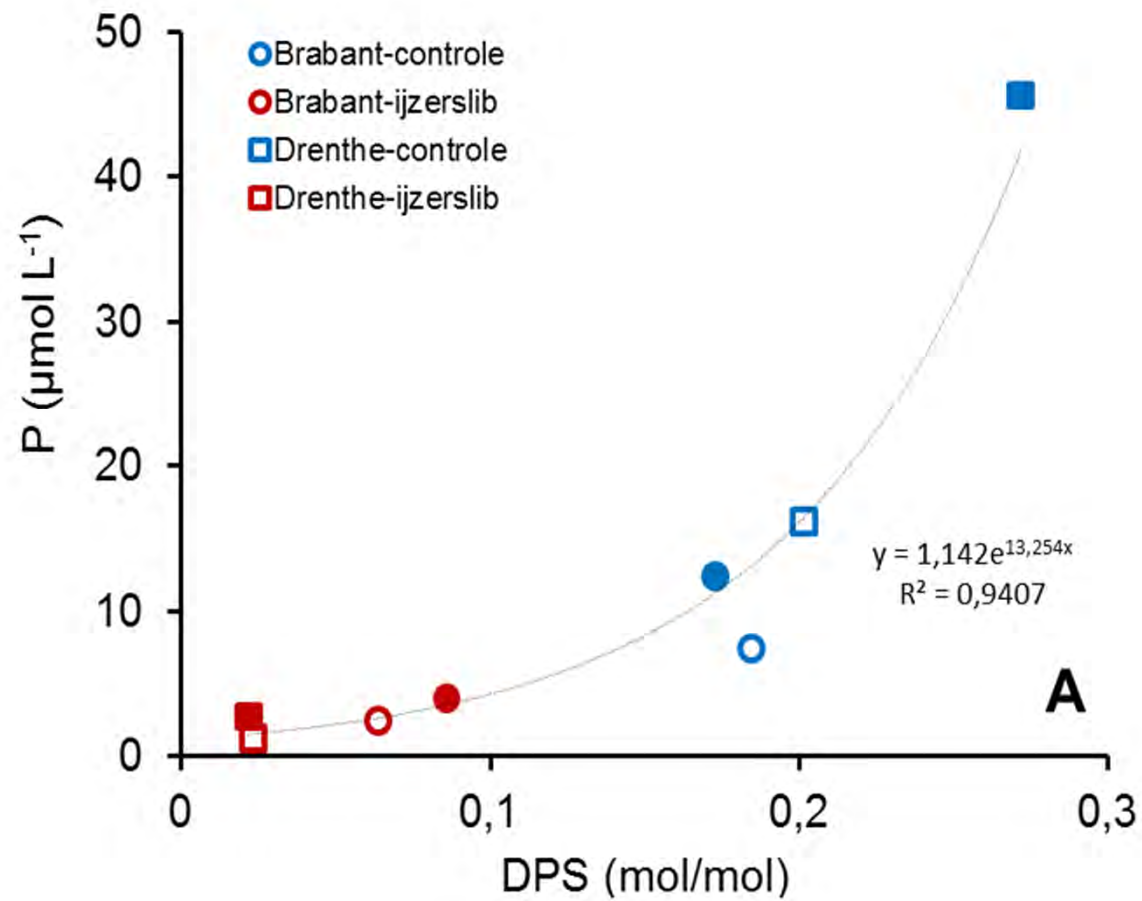


Nog meer IJzer??



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Dank voor Uw aandacht!!!!