



Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

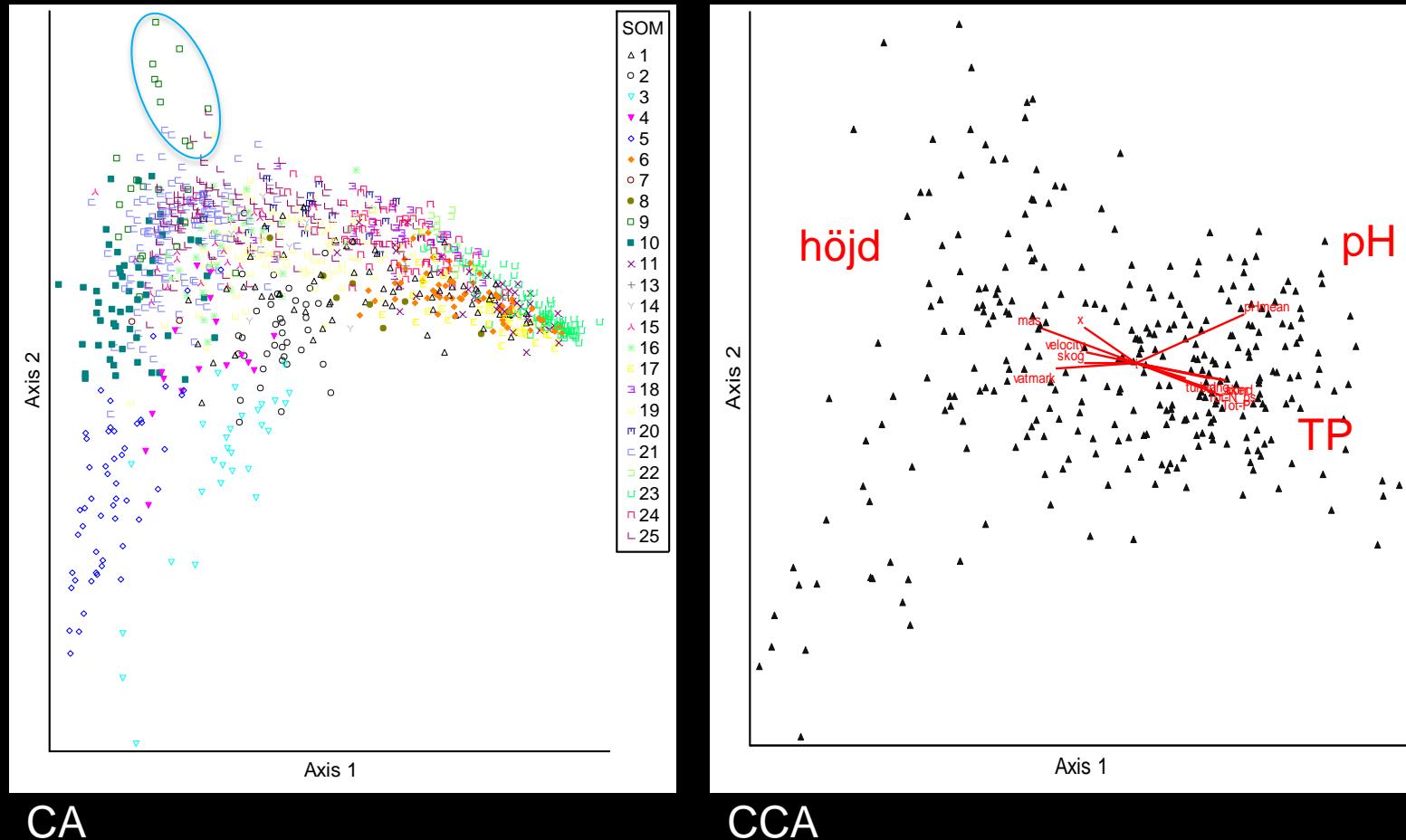


Kiselalgs-Referenssamhällen i Sverige

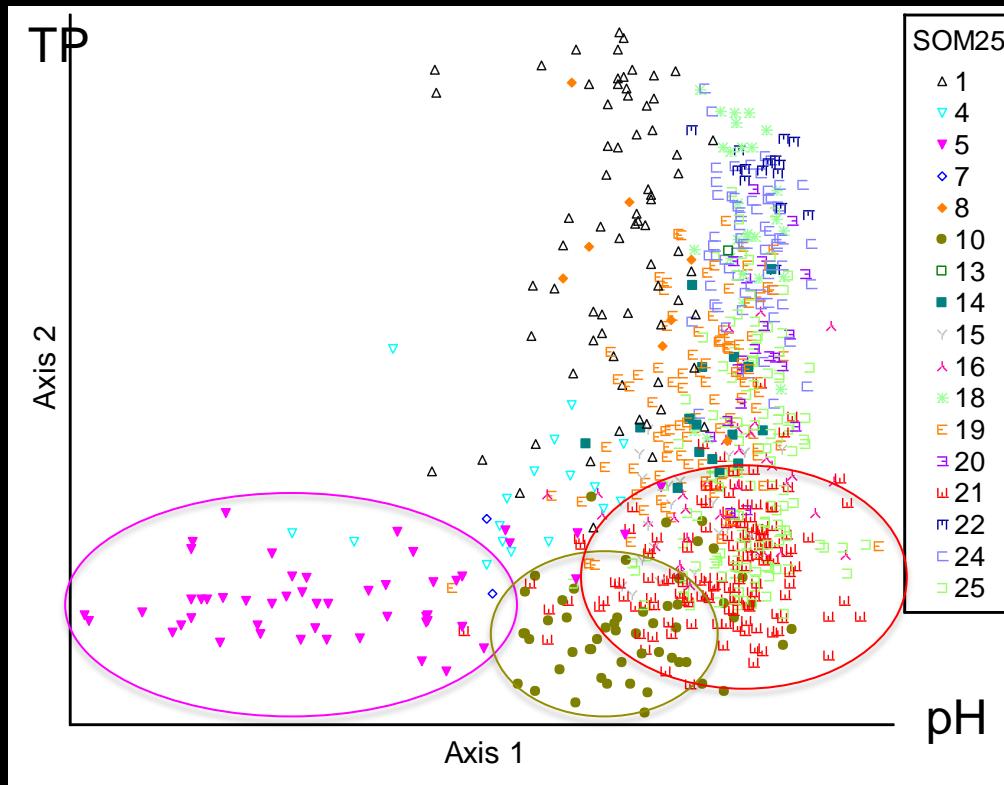
Maria Kahlert

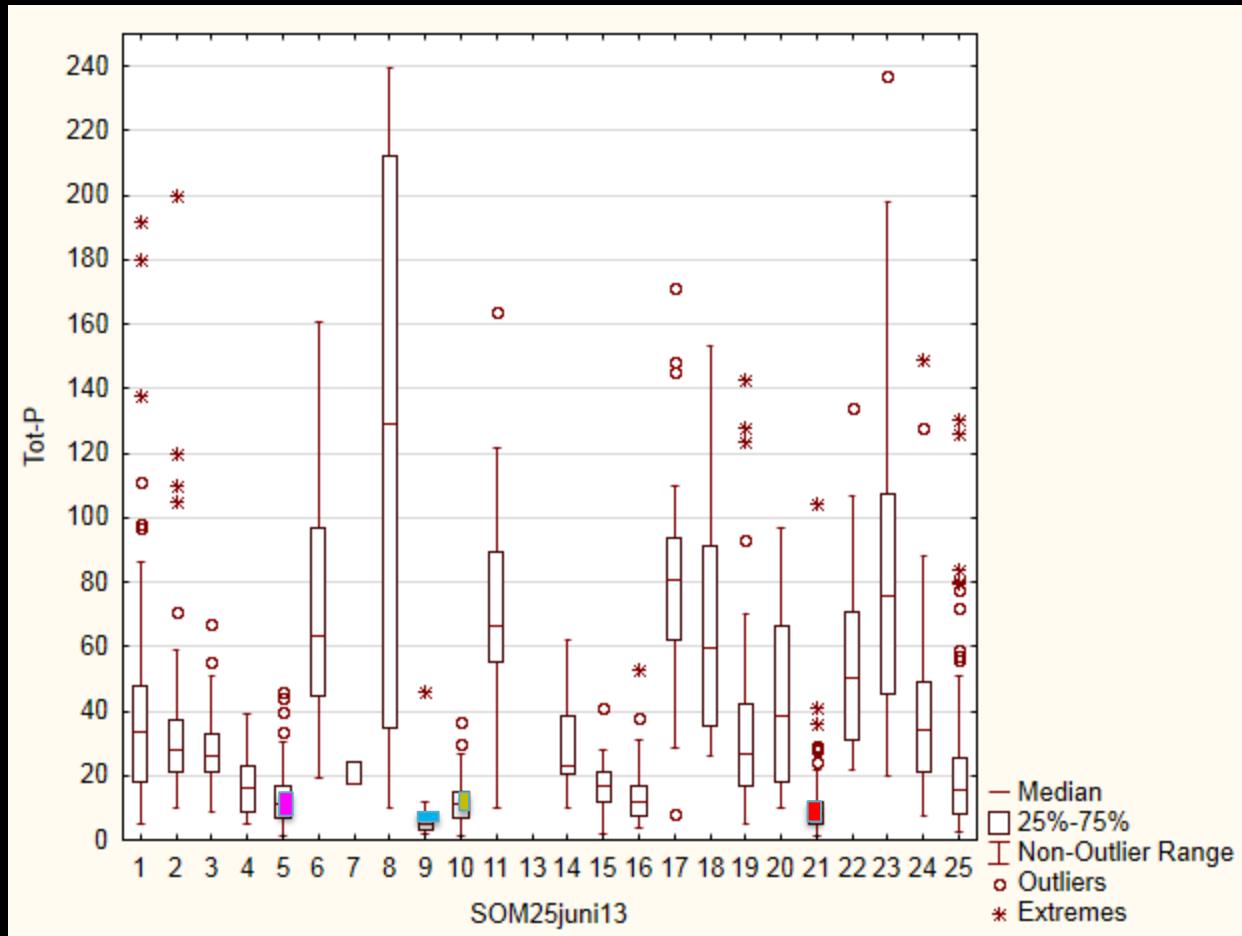
**Insamlade data och deras
resultat: 1124 lokaler med
kiselalgsdata, därav ~ hälften
med kemi och kringdata**

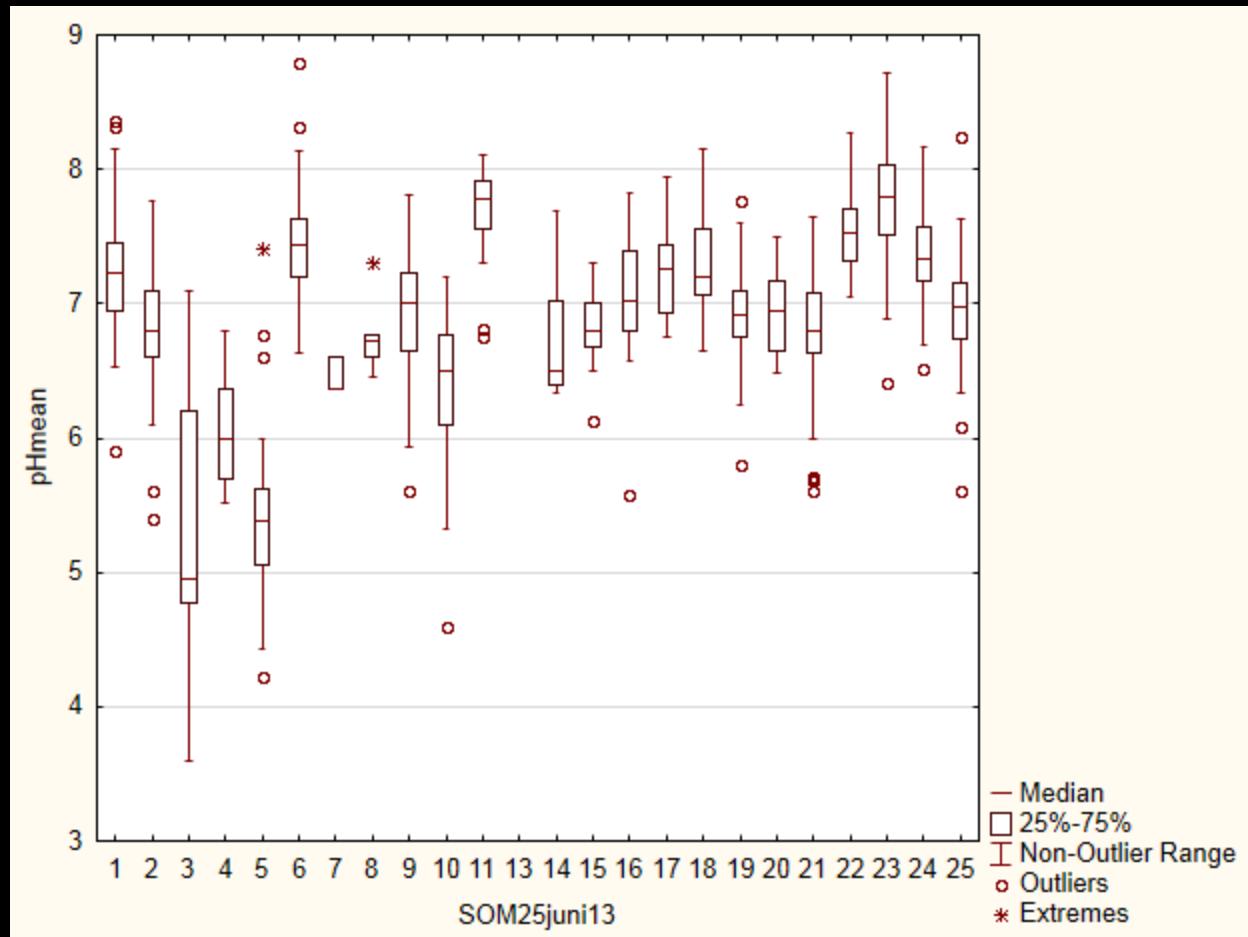
Olika kiselalgssamhällen i Sverige, styrda av pH, TP och höjd



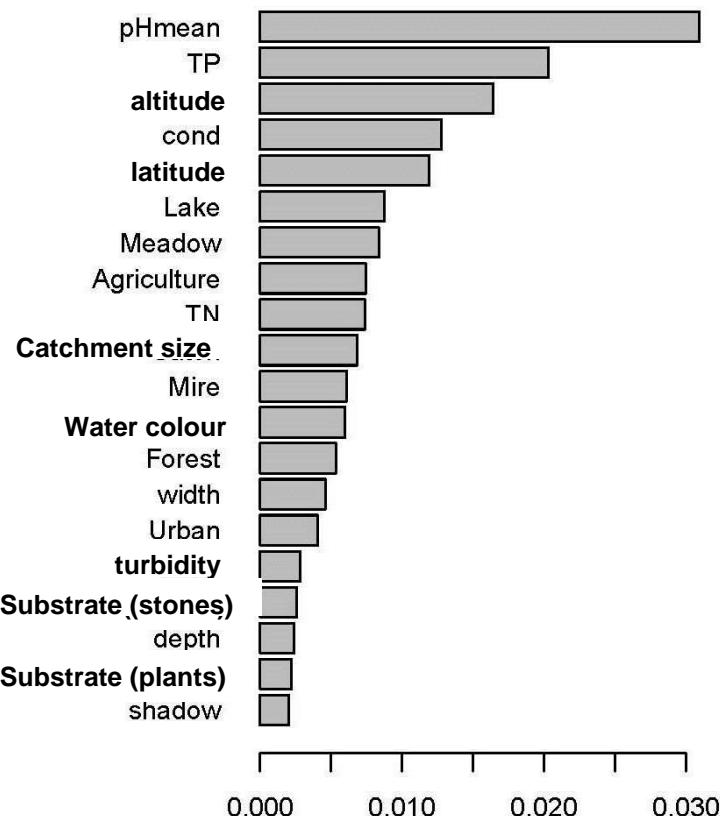
Referenssamhällen





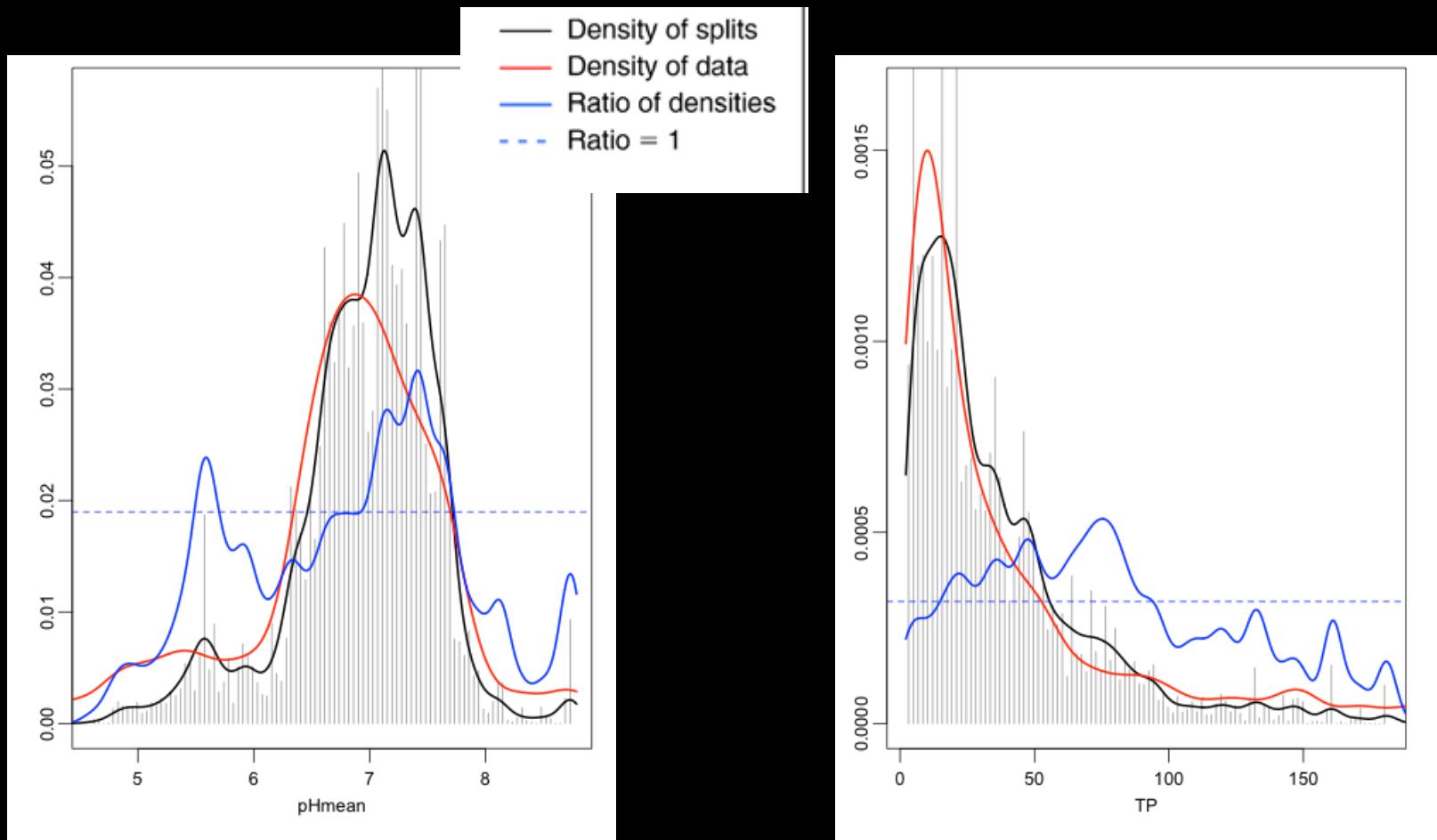


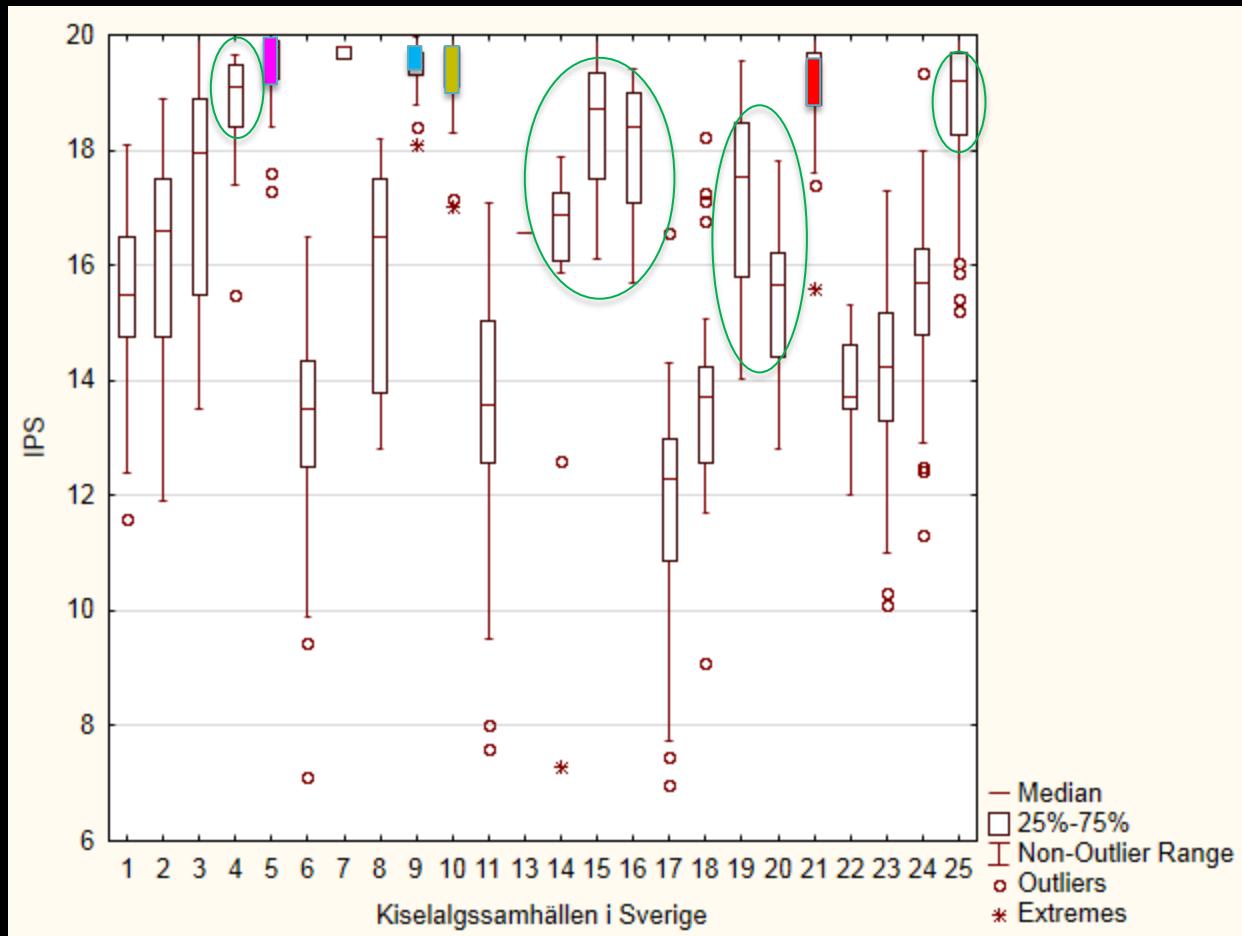
Importance of environmental variables for predicting distributions of diatom community composition (rel. abundance)



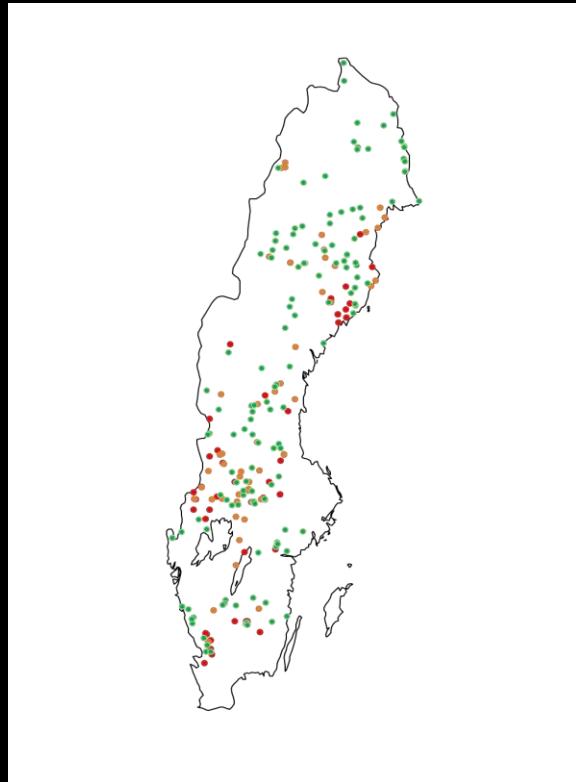
- Drivers of diatom communities' compositional changes:
- main drivers pH, TP
- followed by altitude, conductivity
- less important landuse factors
- least important local habitat factors

Overall conditional importance (R² weighted) on relative abundance model

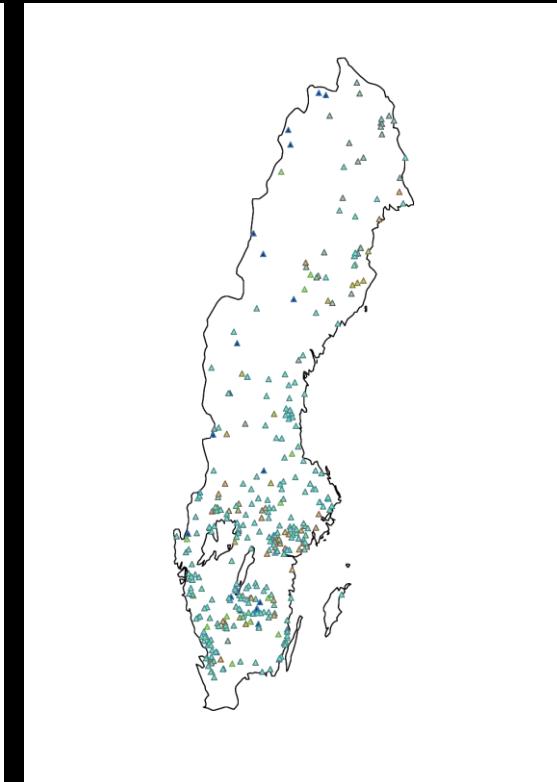




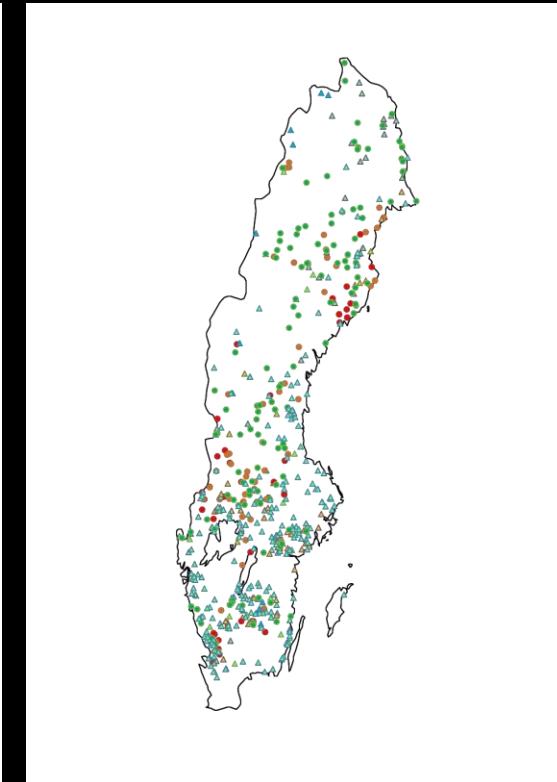
Referenssamhällen i Sverige



Oligotrofa samhällen ($10\text{-}15 \mu\text{g TP l}^{-1}$), ● mycket surt. • surt och ● neutrala



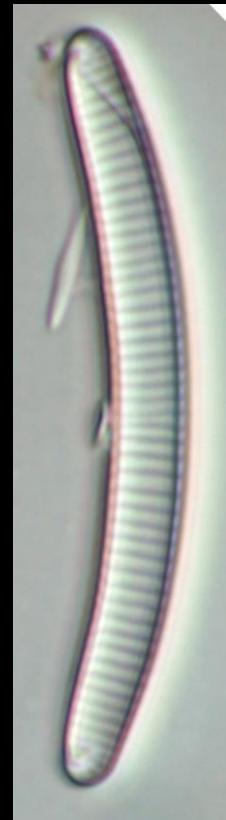
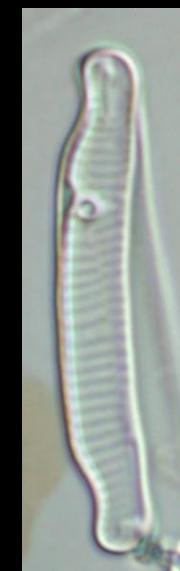
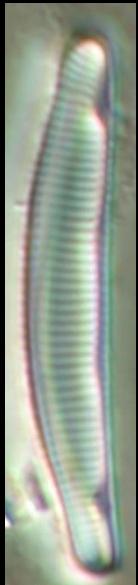
Samhällen med mera TP ($17\text{-}40 \mu\text{g TP l}^{-1}$), ± neutrala



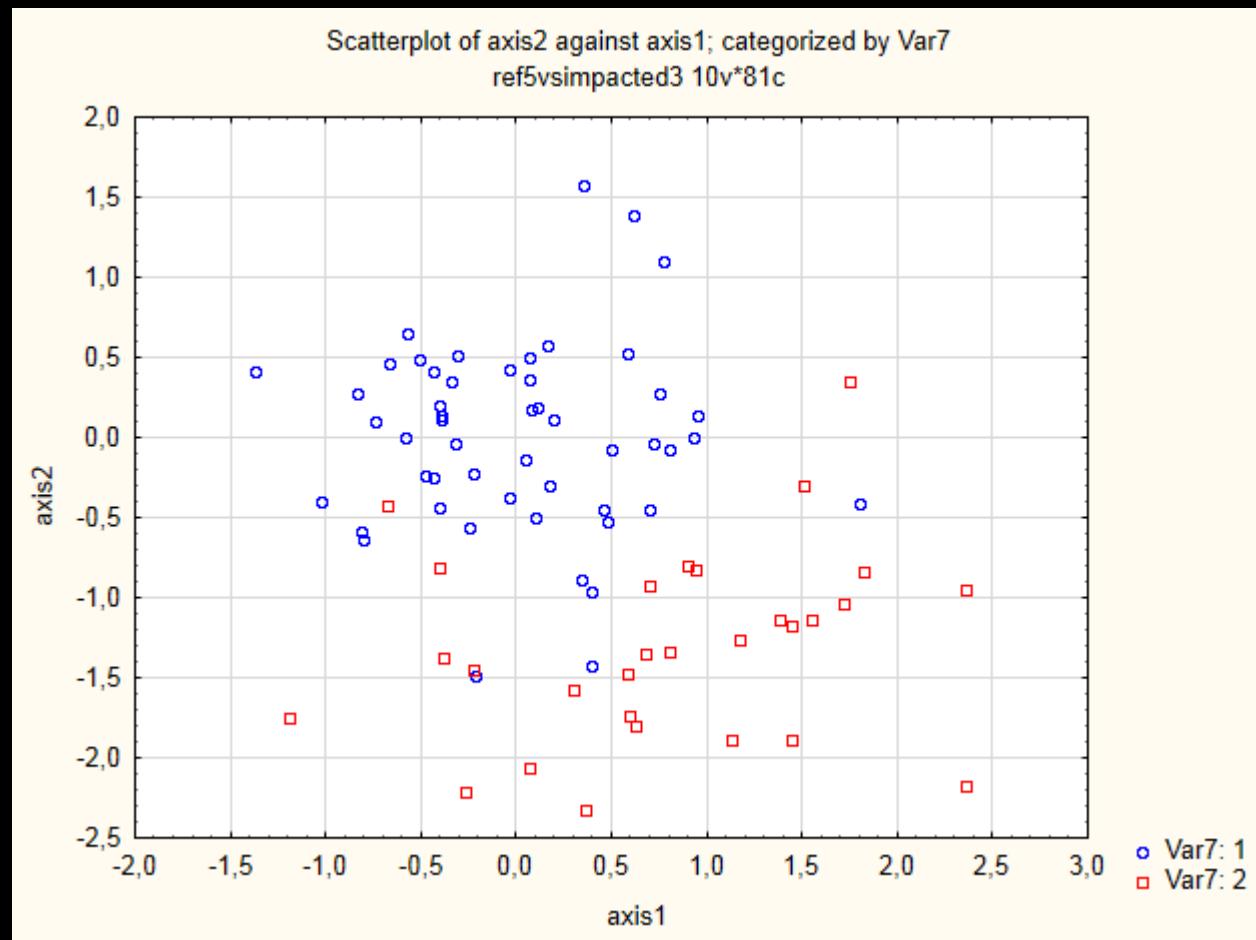
alla

Mycket surt referenssamhälle

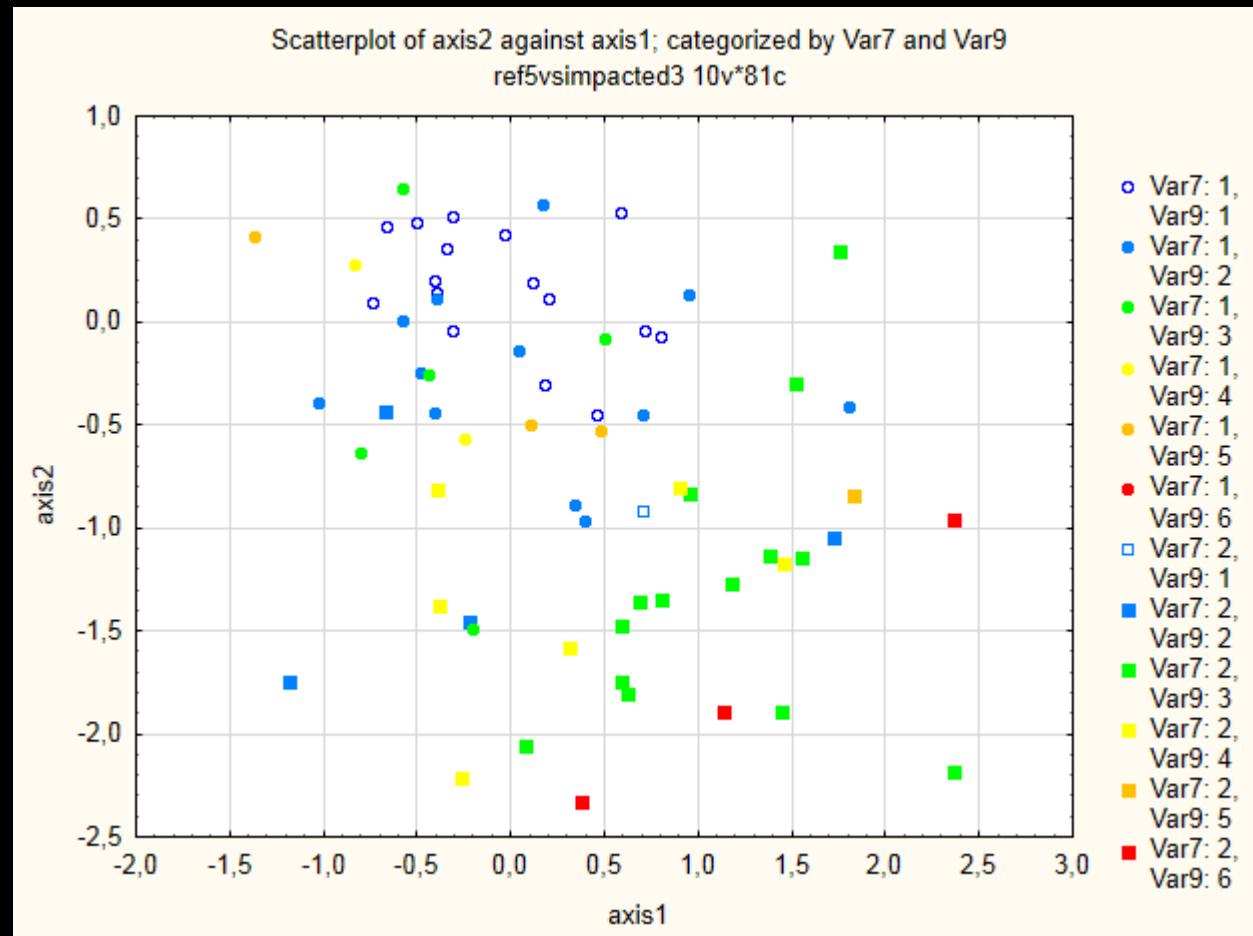
Sammansättning (dominanta taxa) (rött = taxa typiska för samhället)	Relativ abundans (%)
<i>Tabellaria flocculosa</i> (Roth) Kützing	10,2
Eunotia incisa var. incisa W. Smith & W. Gregory	23,1
Eunotia rhomboidea Hustedt	11,6
<i>Eunotia implicata</i> Nörpel, Lange-Bertalot & Alles	2,49
Eunotia exigua var. tenella (Grunow) Nörpel & Alles	8,38
<i>Frustulia crassinervia</i> (Brébisson) Lange-Bertalot & Krammer	2,45
<i>Eunotia meisteri</i> Hustedt	4,68
<i>Frustulia erifuga</i> Lange-Bertalot & Krammer	2,56
<i>Eunotia bilunaris</i> var. <i>bilunaris</i> (Ehrenberg) Mills	1,69
Eunotia bilunaris var. <i>mucophila</i> Lange-Bertalot & Nörpel	2,3

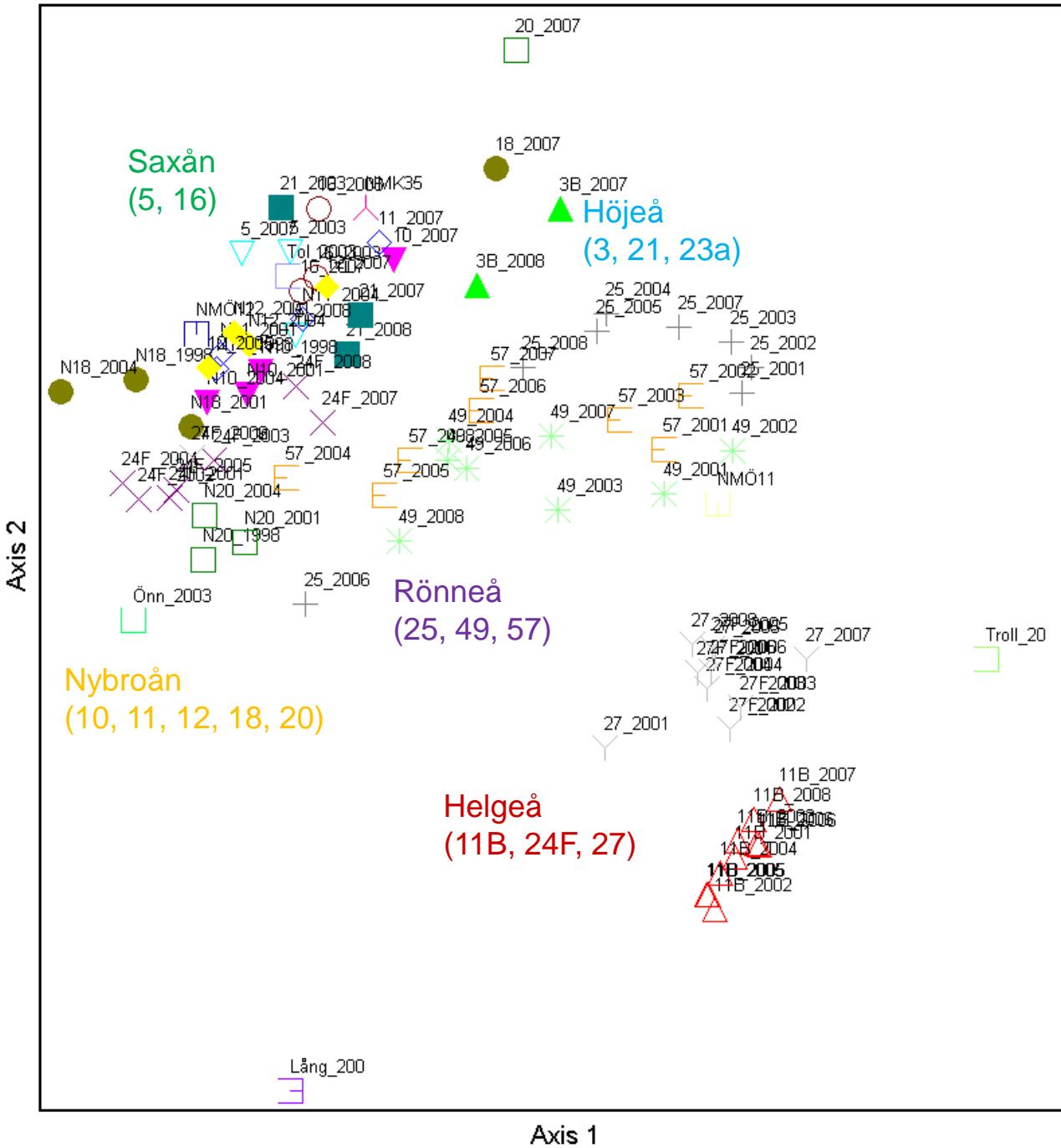


- mycket surt
referenssamhälle,
likheter mellan
lokaler
- eventuellt
påverkade lokaler,
samhällen jämförda
med
referenssamhällen



- referenssamhällen
- nya lokaler
- < 20 µg TP l⁻¹
- 20-30 µg TP l⁻¹
- 30-40 µg TP l⁻¹
- 40-50 µg TP l⁻¹
- > 50 µg TP l⁻¹

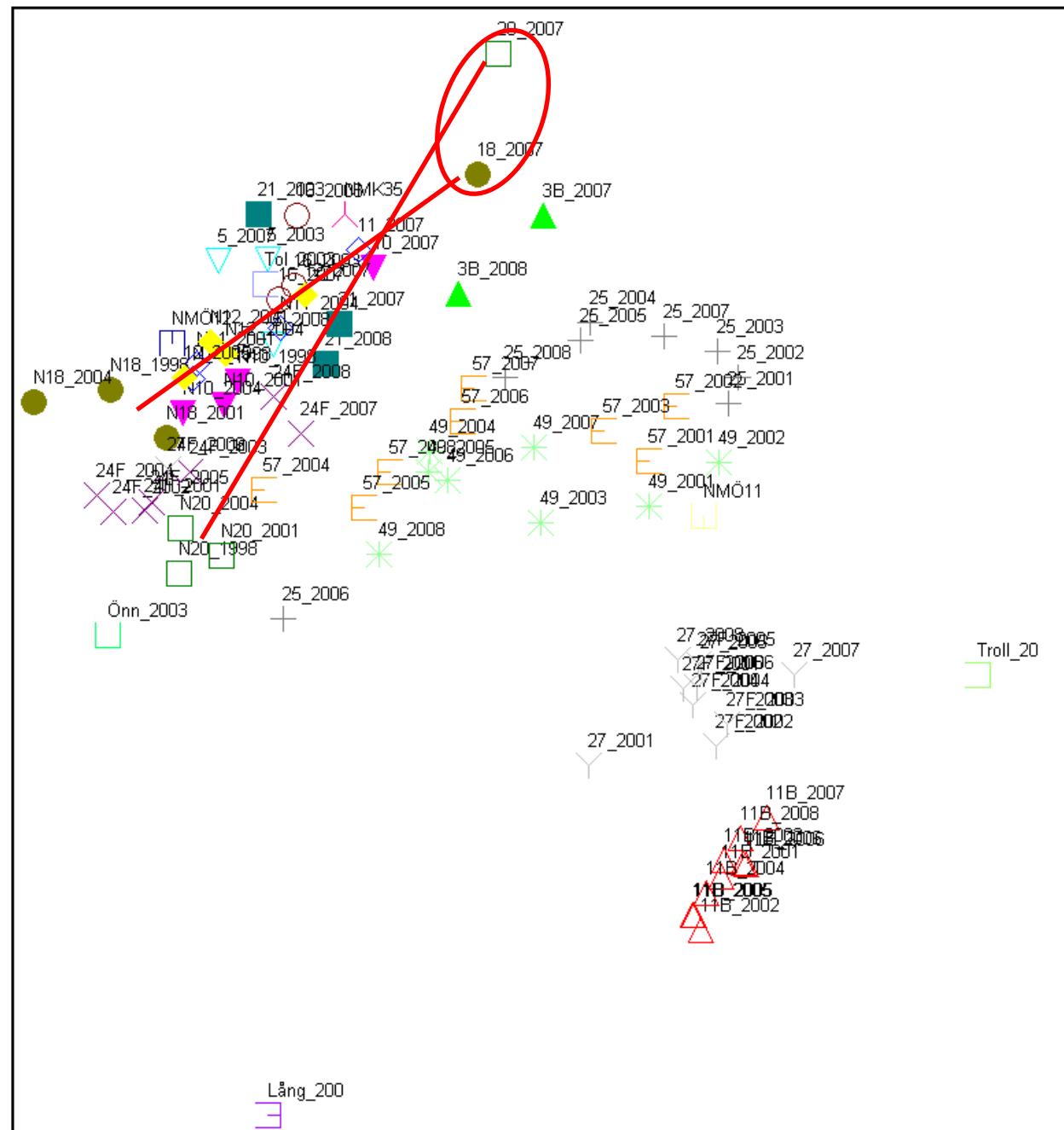




Men **OBS:**
Metoden fungerar
bara om utförare är
harmoniserade i
sitt sätt att
identifiera
kiselalger

Axis 2

Axis 1







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