

# Blir näringssrika skånska sjöar fattigare?

## Data från recipientkontroll och miljöövervakning

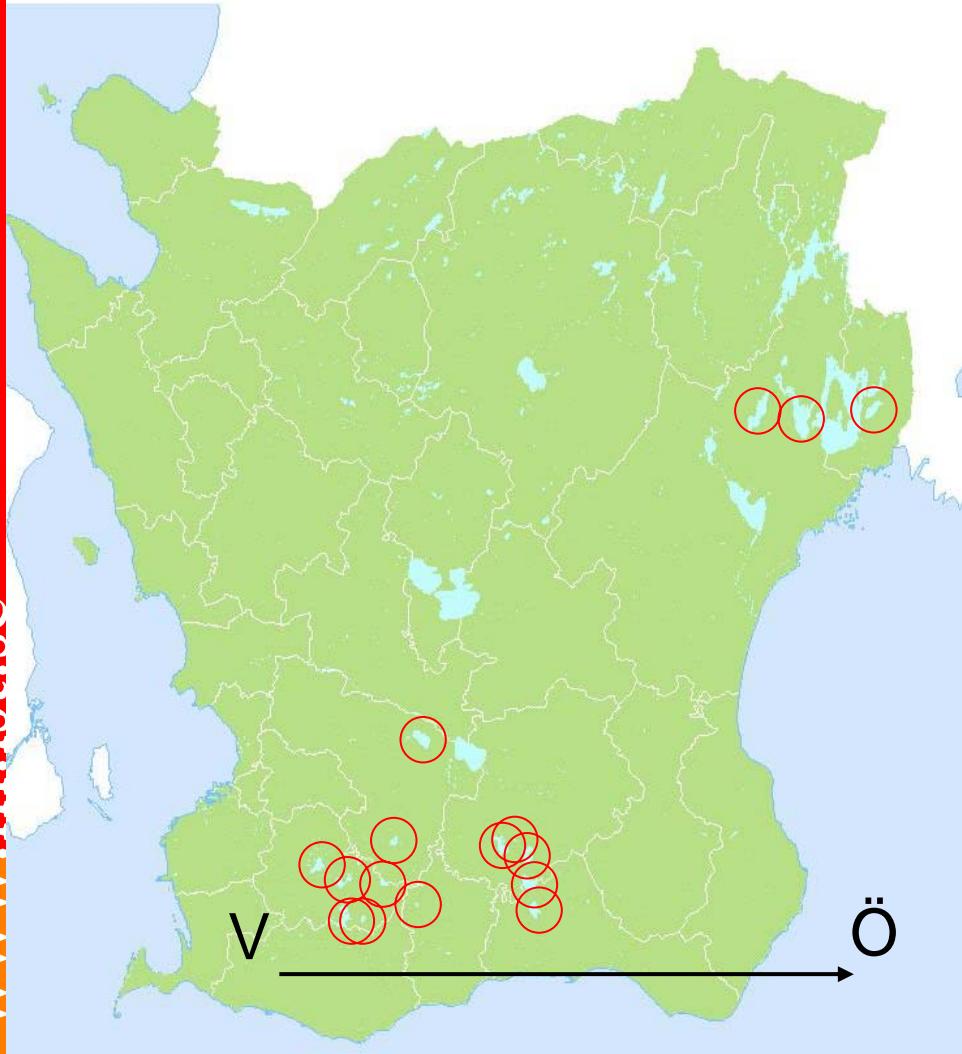
Anders Hargeby



LÄNSSTYRELSEN  
I SKÅNE LÄN

# Skånska sjöar i jordbruksbygd

[www.m.lst.se](http://www.m.lst.se)



16 kalkrika slättsjöar



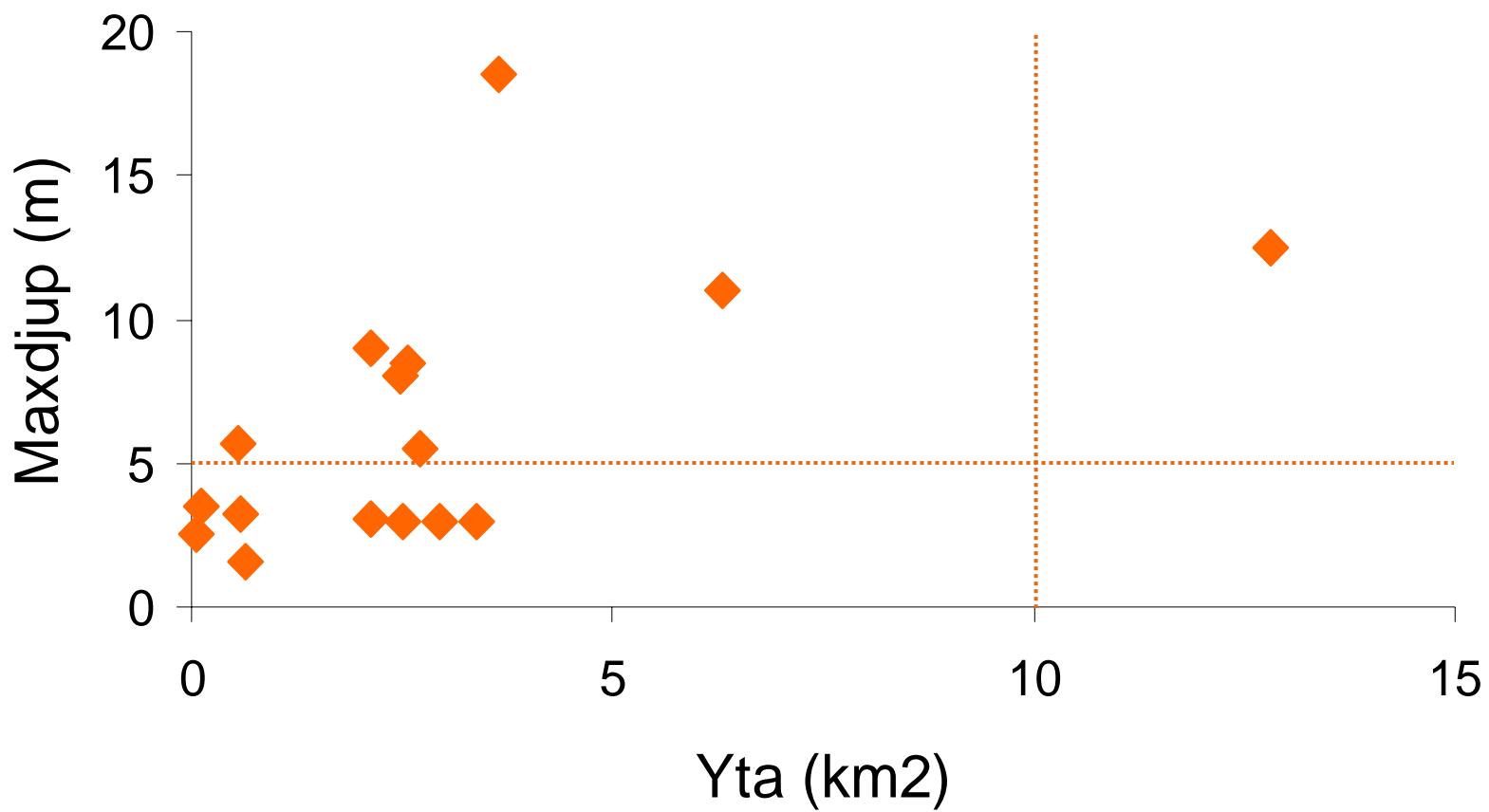
LÄNSSTYRELSEN  
I SKÅNE LÄN

# Data och frågor

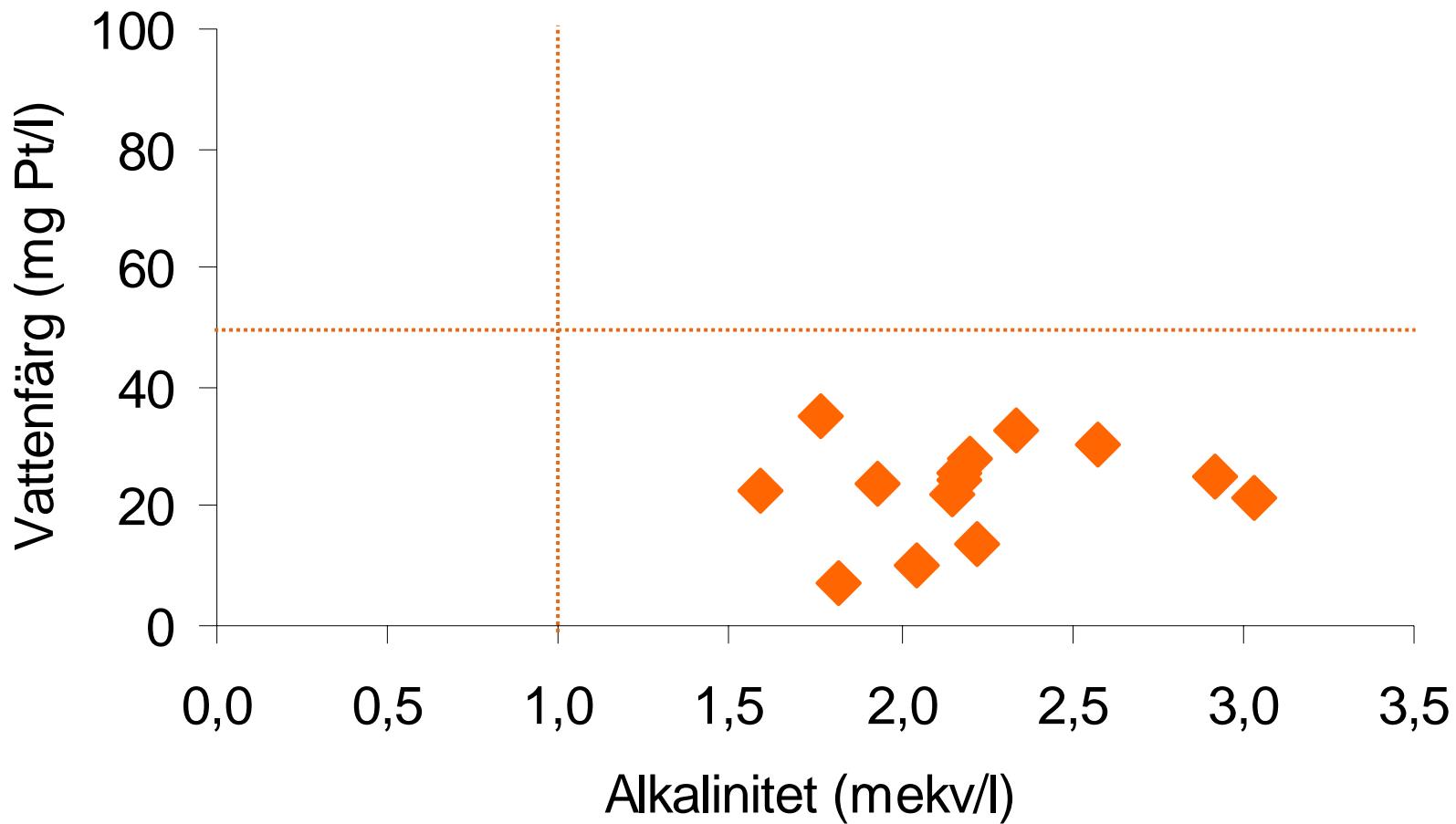
- Tidsserier, kväve, fosfor & sikt djup
- Mätningar i augusti, 1967-2005
- Har det skett förändringar?
- Finns generella mönster?



# Sjöarna: yta och djup (max)

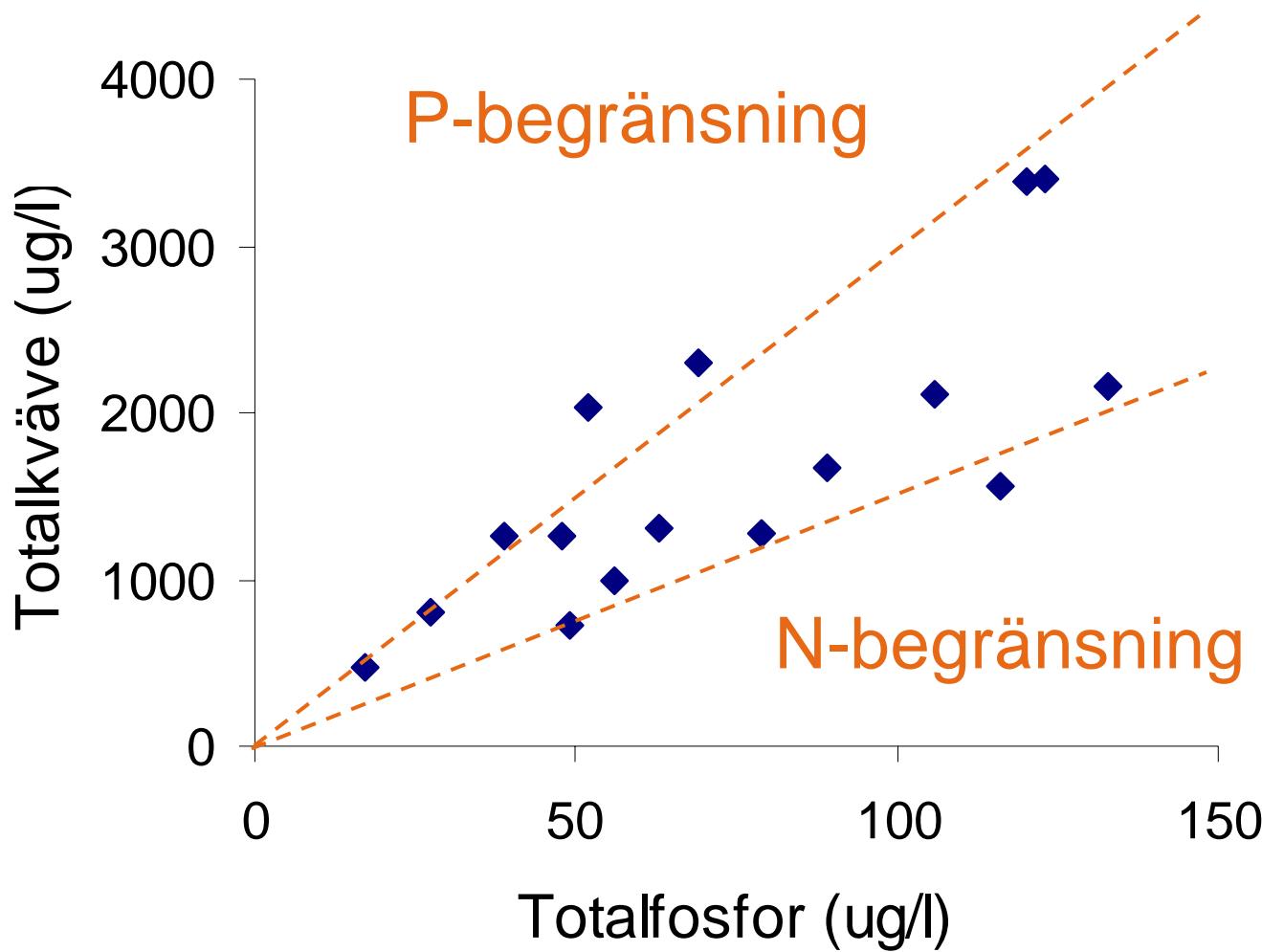


# Låg humus-, hög kalkhalt



# Fosfor- och kvävehalter

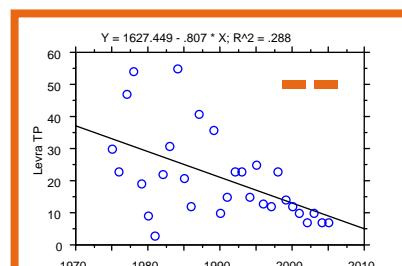
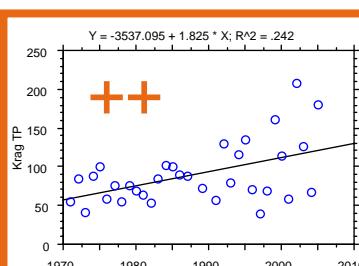
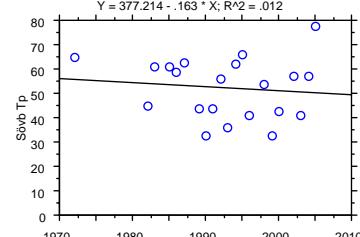
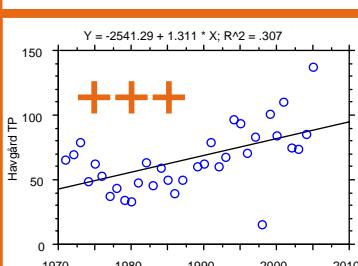
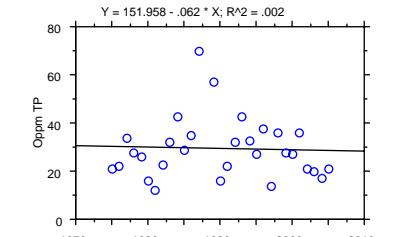
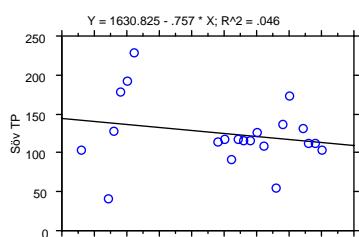
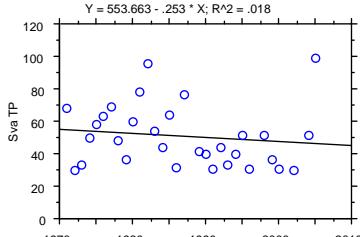
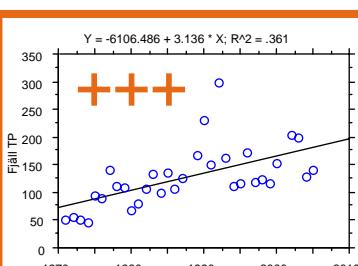
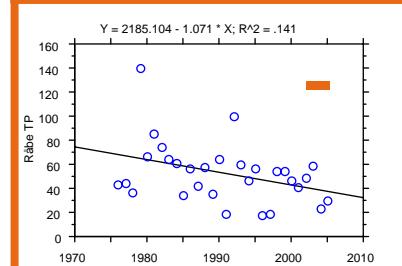
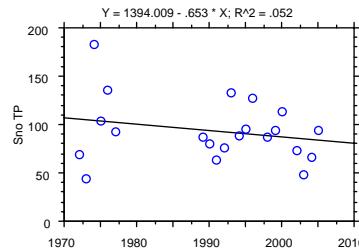
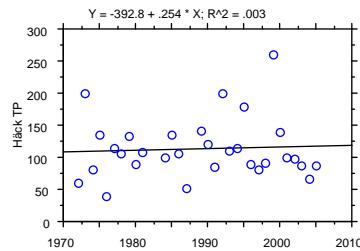
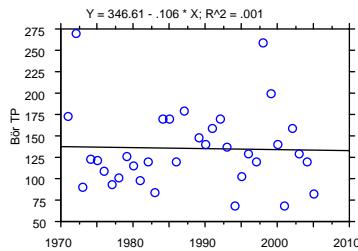
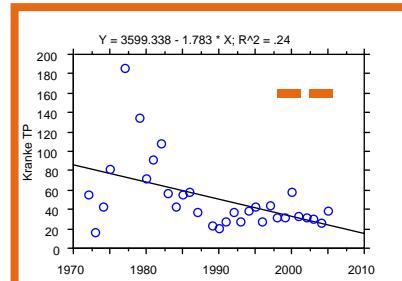
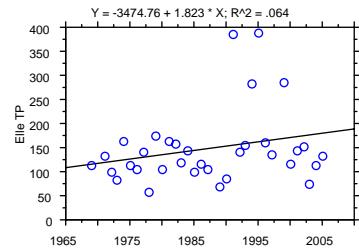
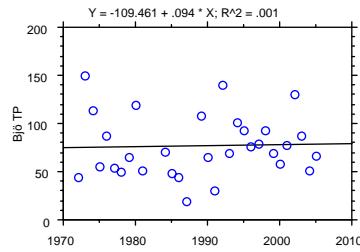
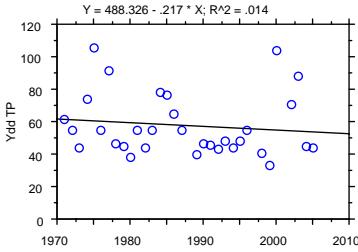
(medianvärden 1968-2005)



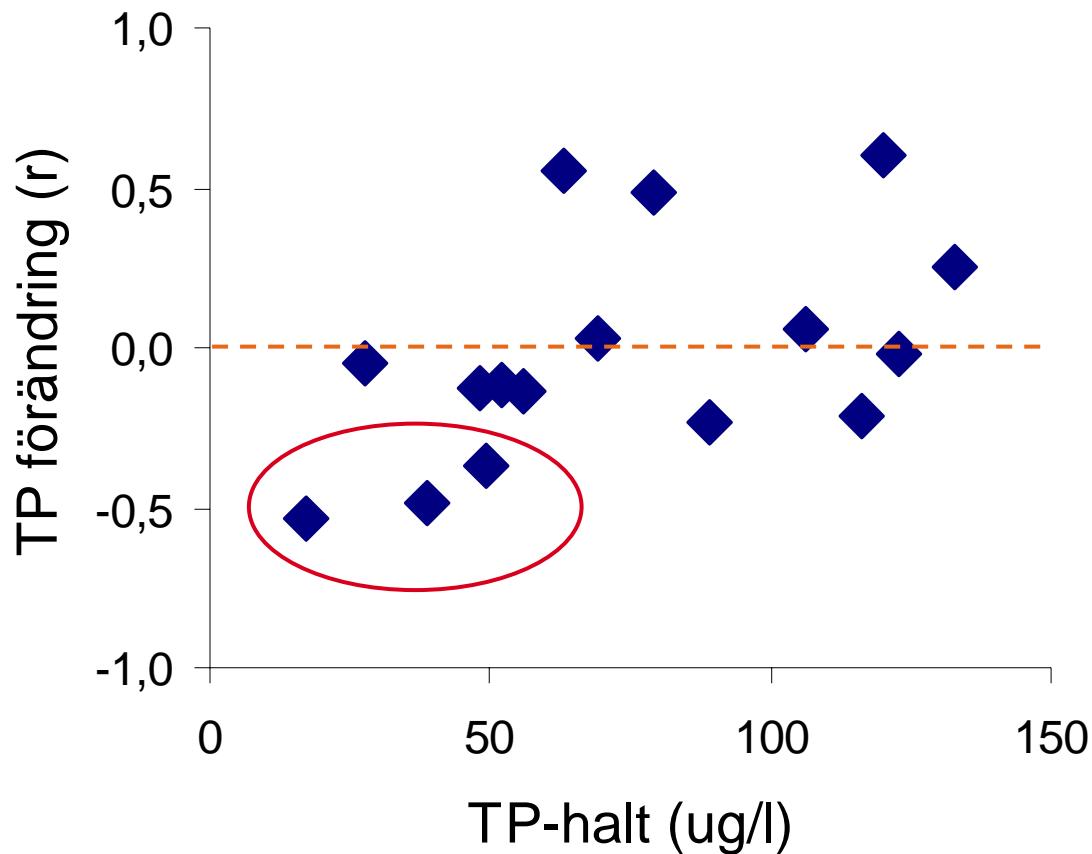
# Totalfosfor 1970-2005

V

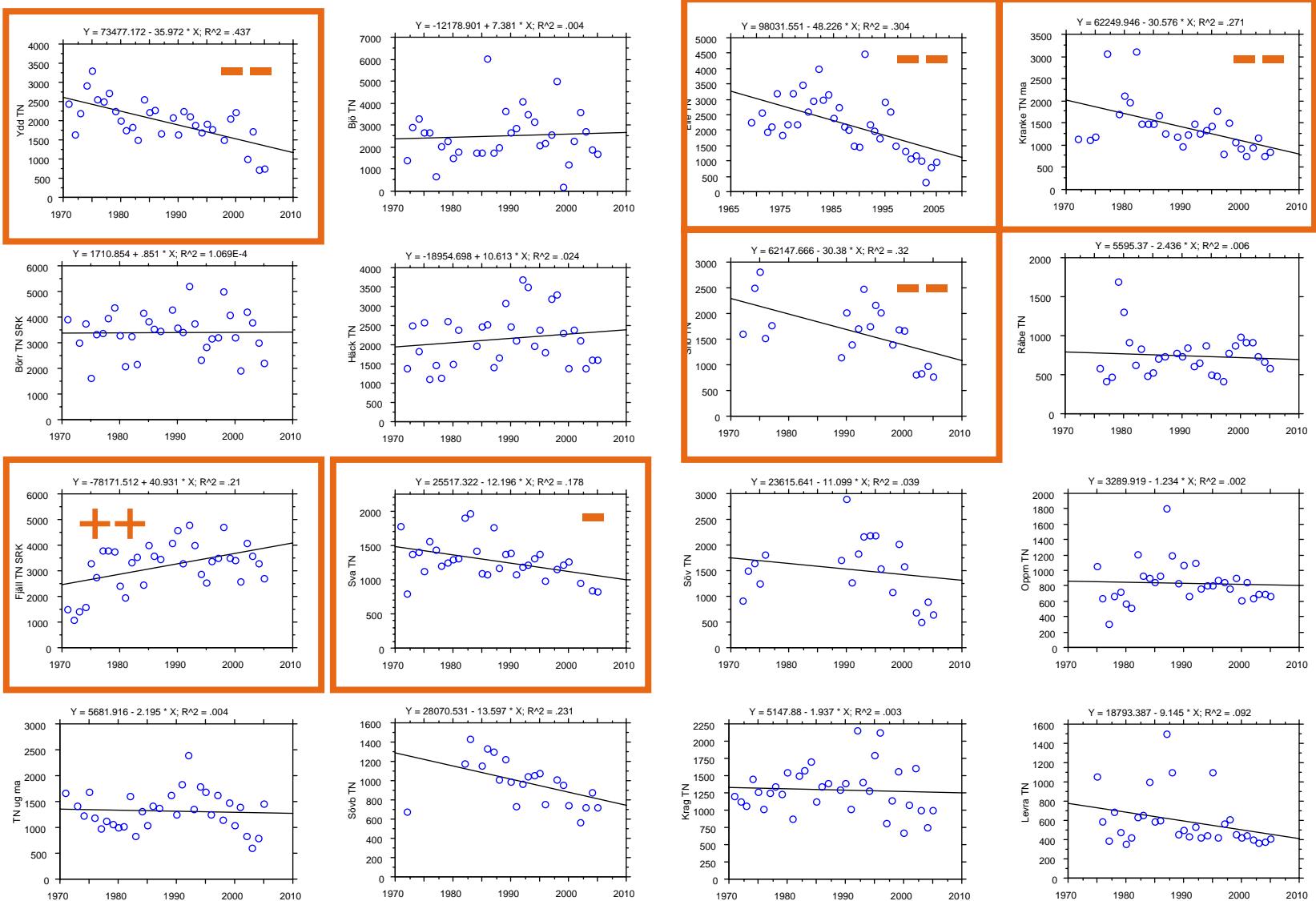
Ö



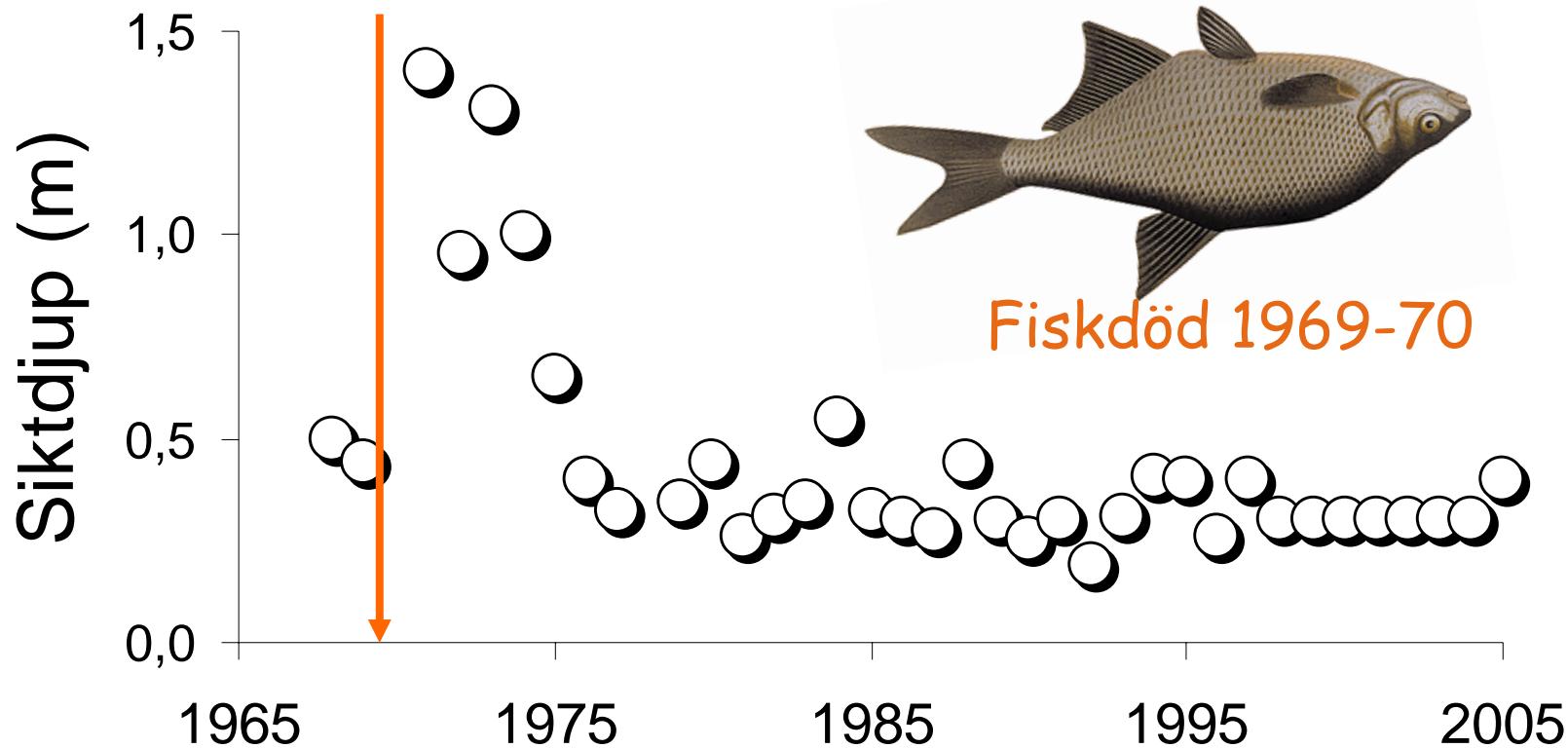
# TP-halten minskade i tre sjöar med låg P-halt



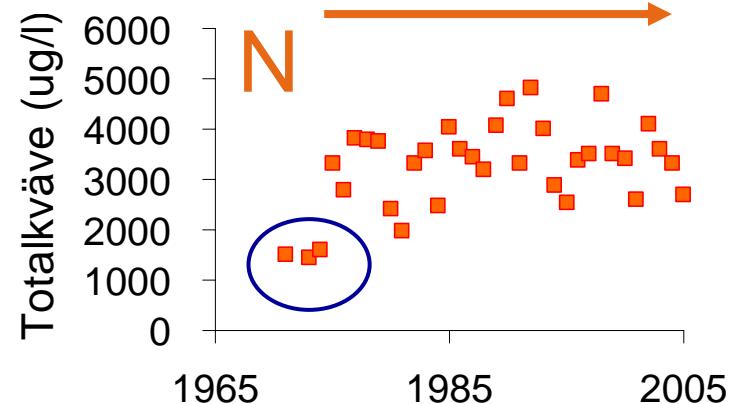
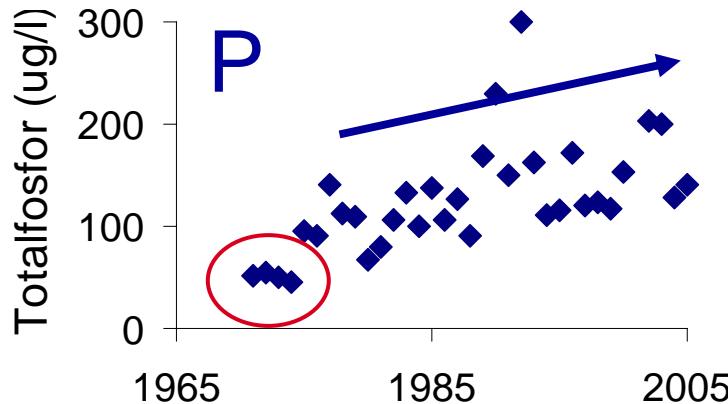
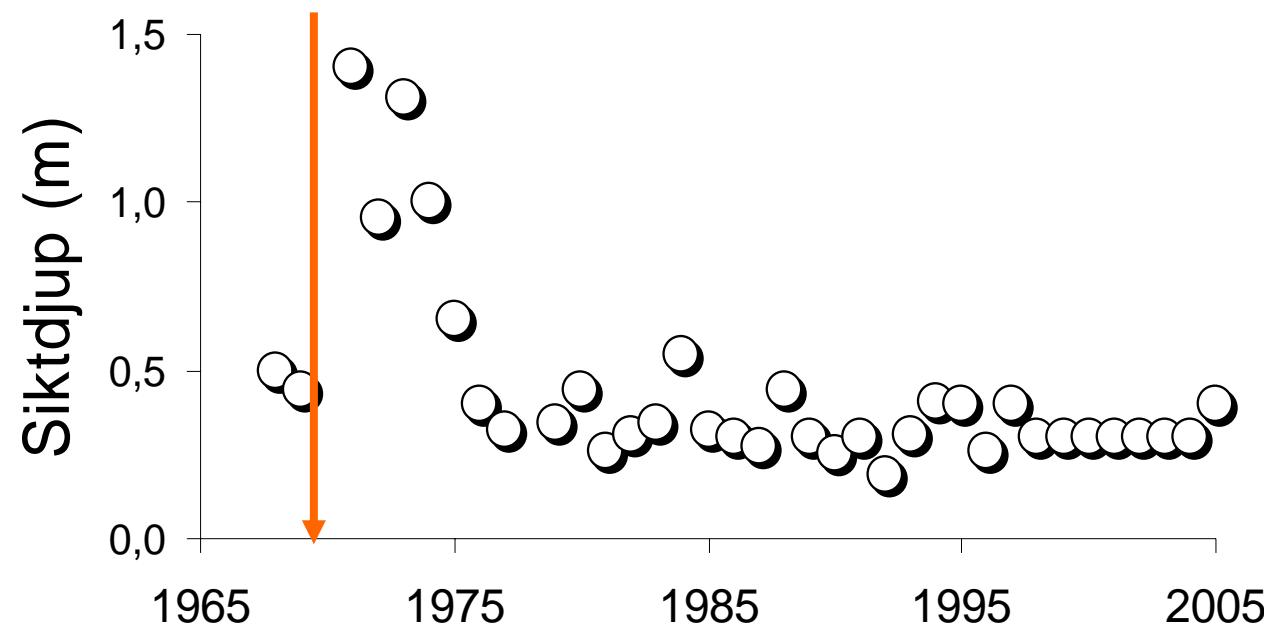
# Totalkväve 1970-2005



# Fjällfotasjön 1968-2005

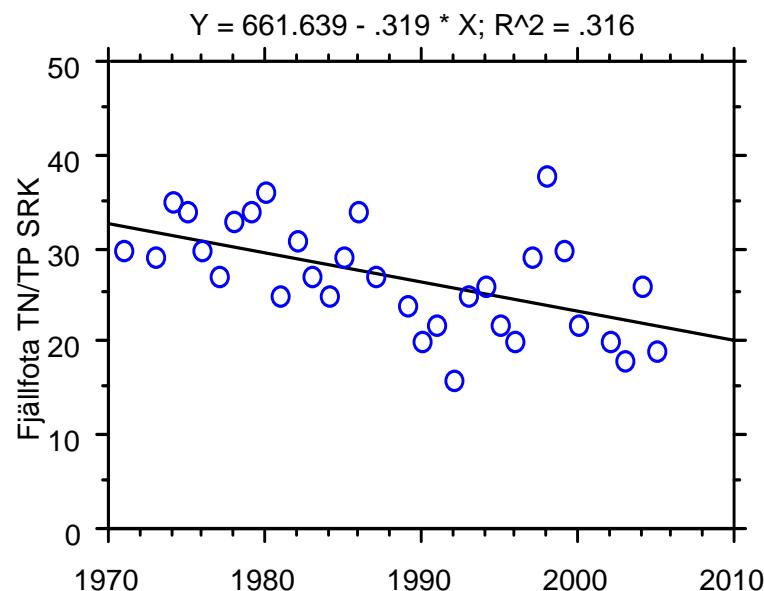


# Fjällfotasjön 1968-2005

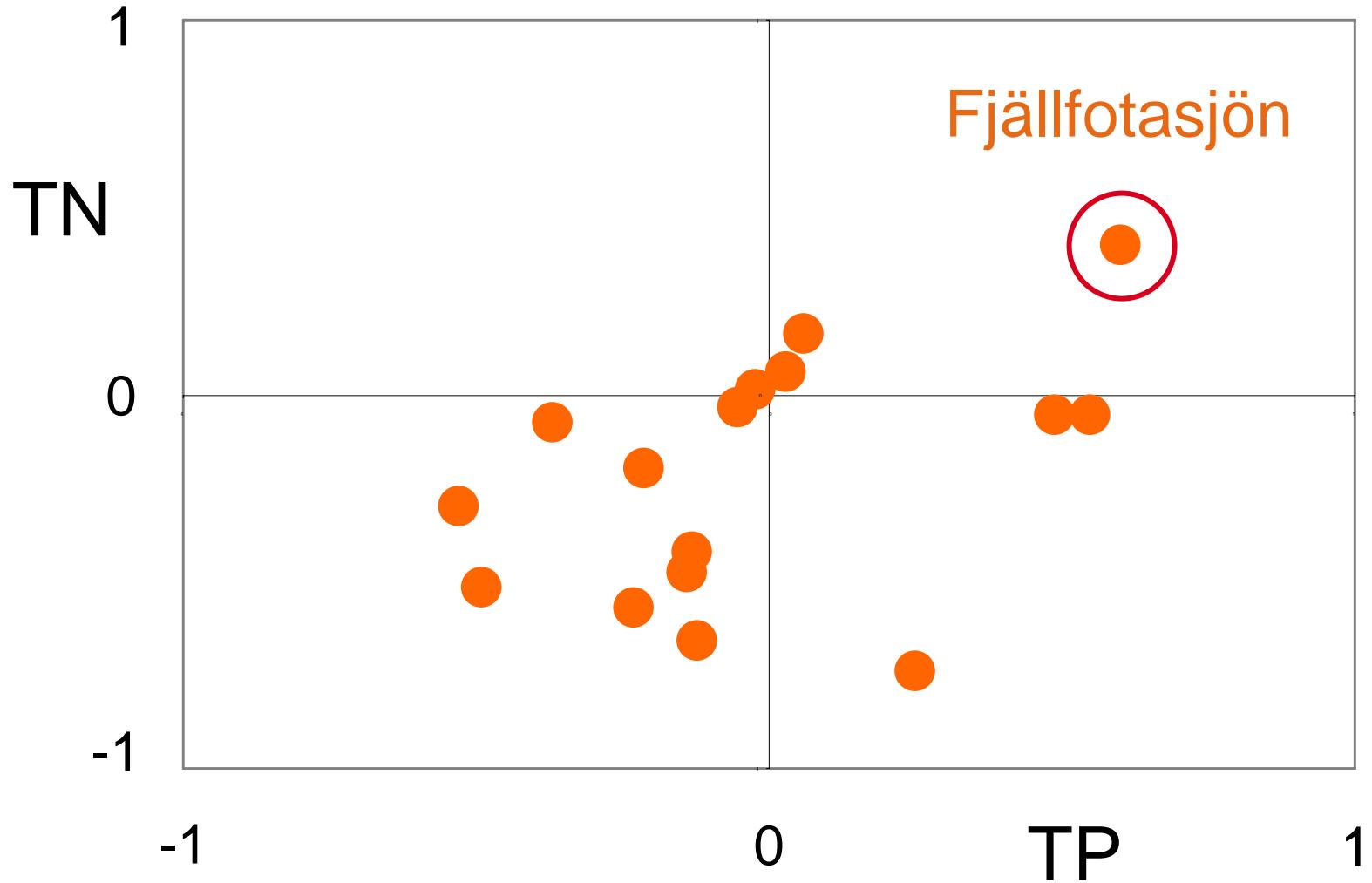


# Fjällfotasjön 1968-2005

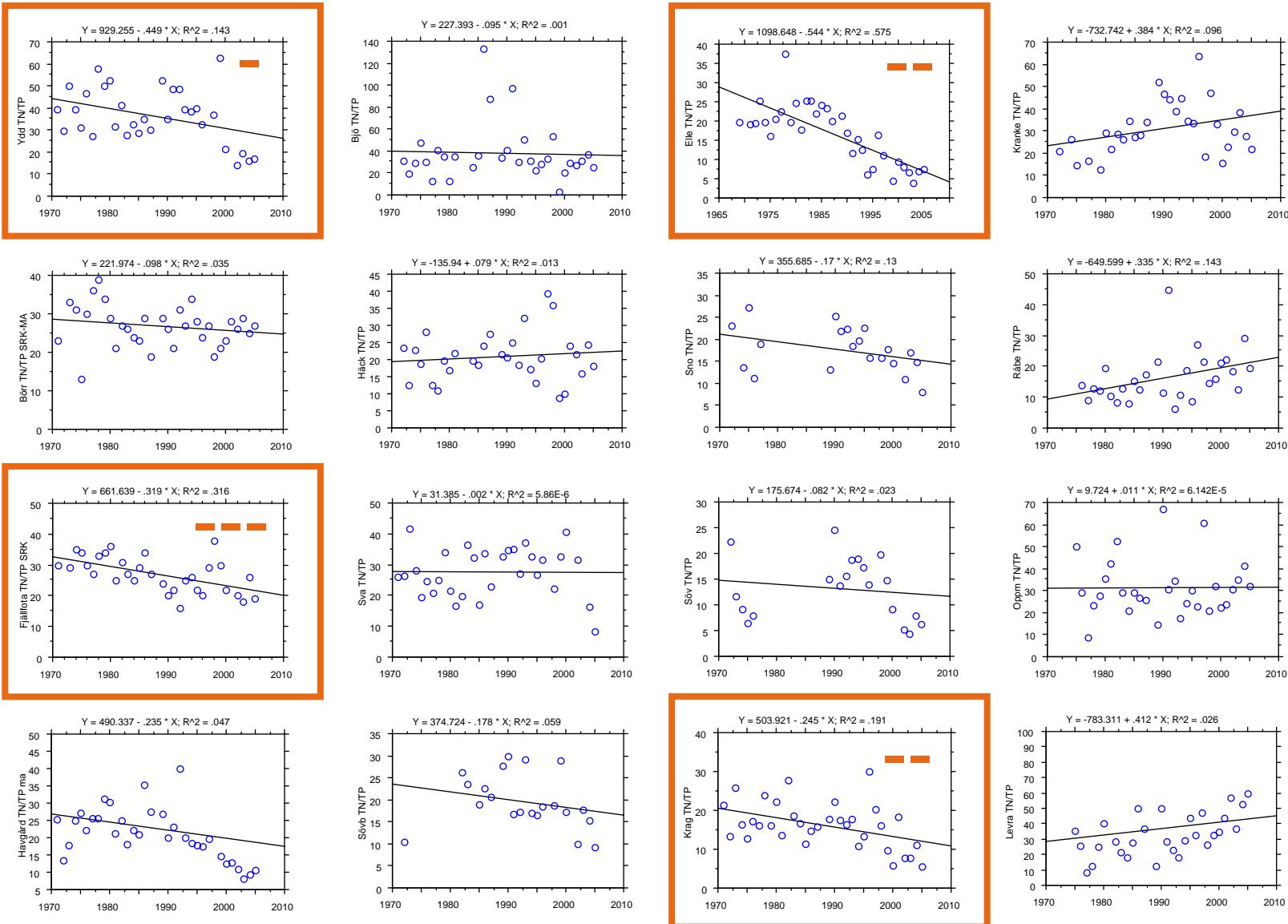
- Minskat siktdjup, ökad P- och N-halt 1970-2005, delvis p g a fiskdöd 1969-70.
- Fortsatt P-ökning 1975-2005, p g a ökad belastning?
- Ger minskad N/P-kvot



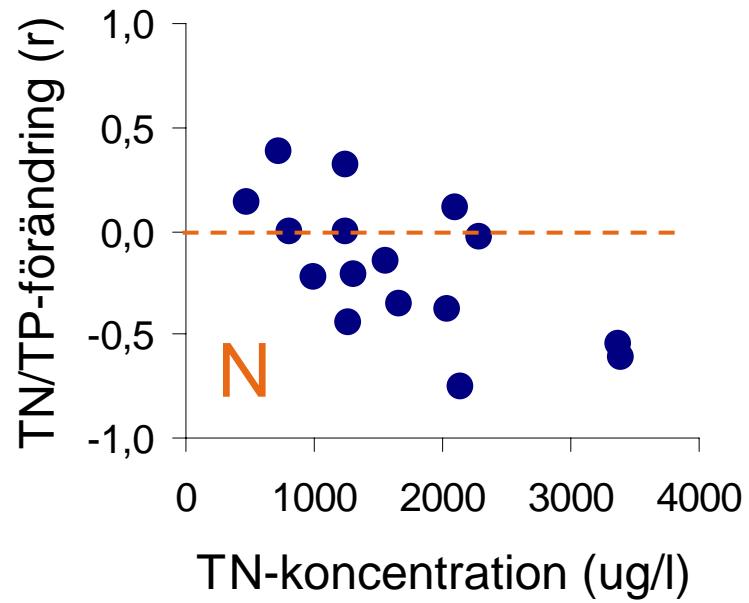
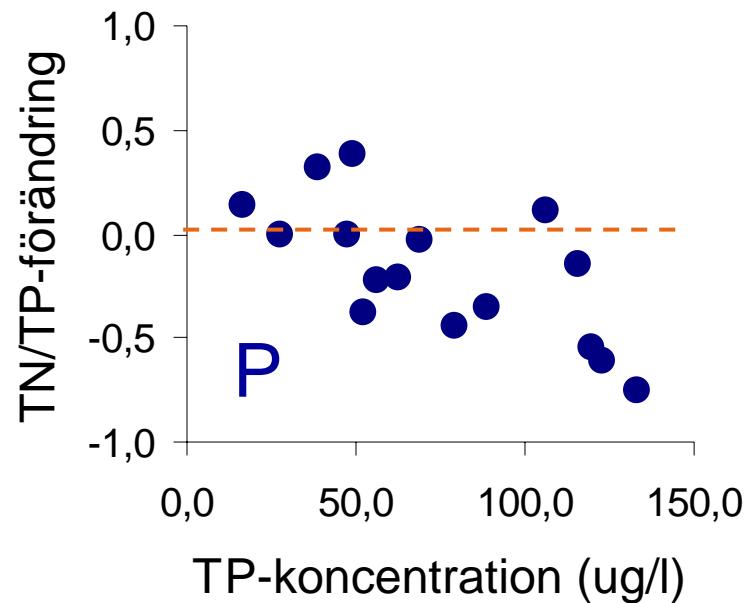
# Förändring i TP och TN (r)



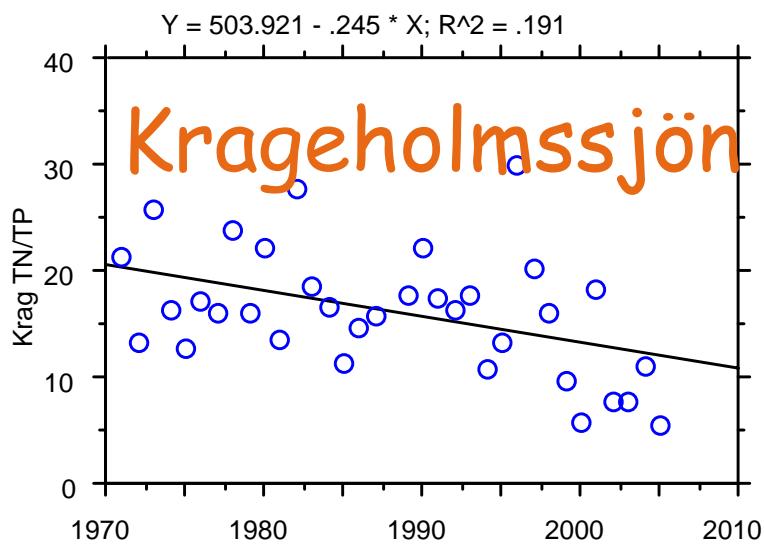
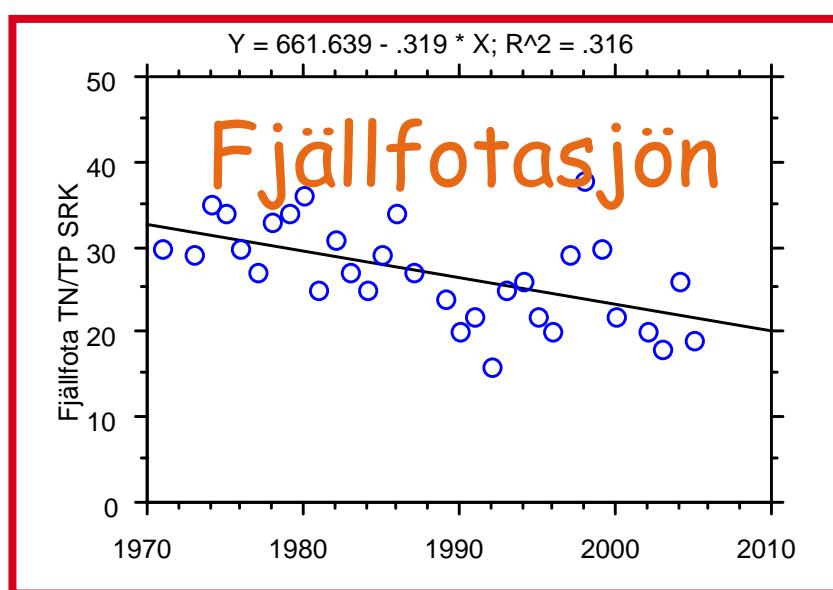
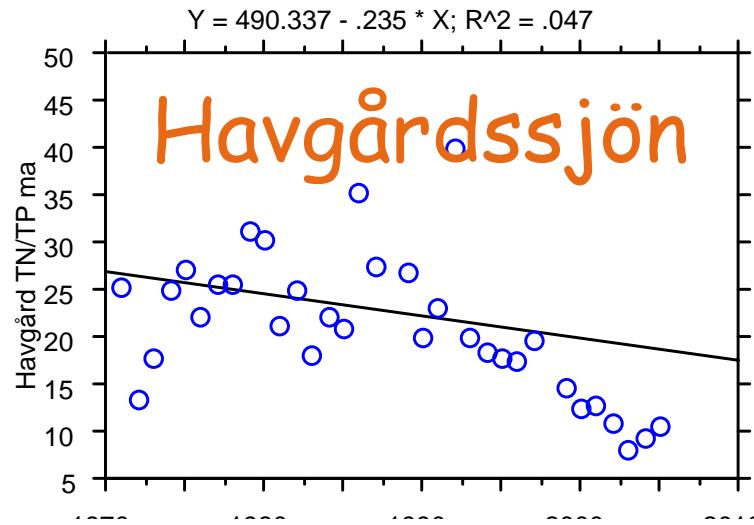
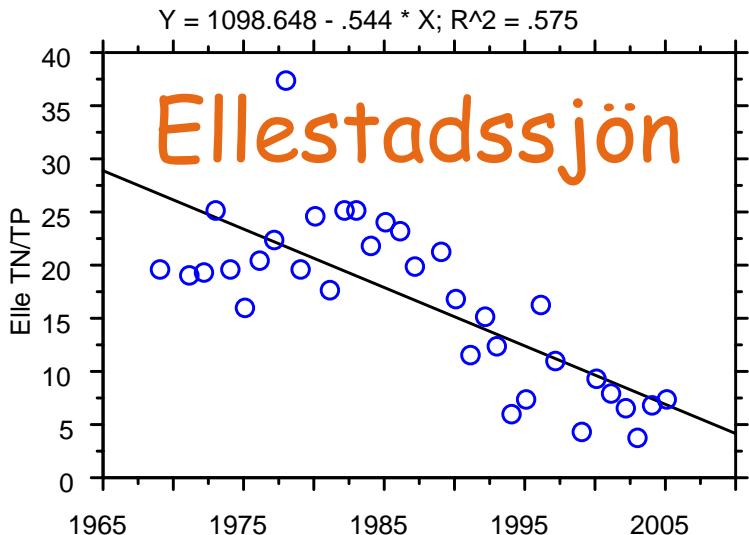
# N/P-kvot 1970-2005



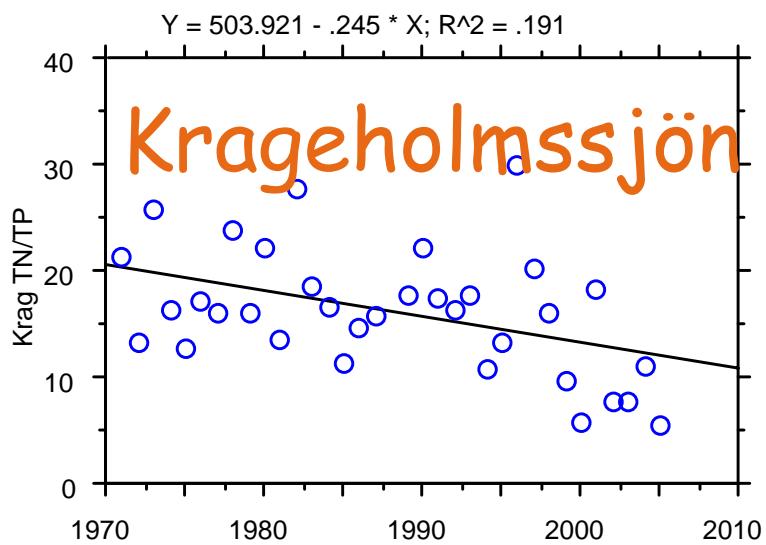
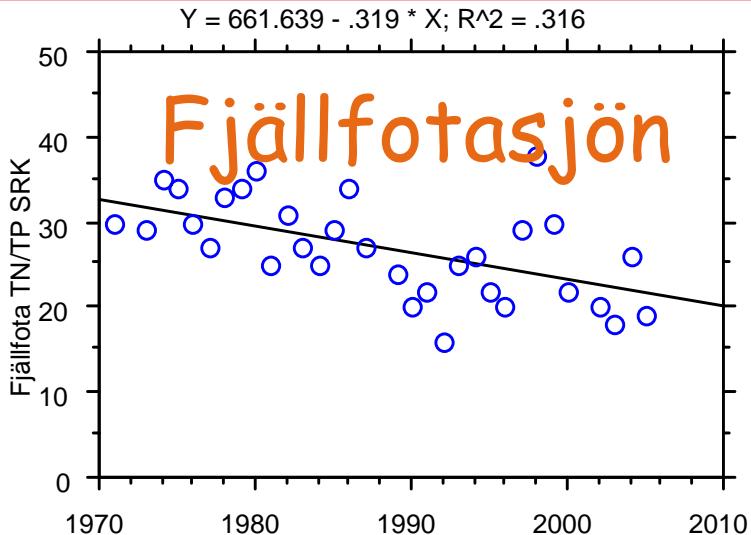
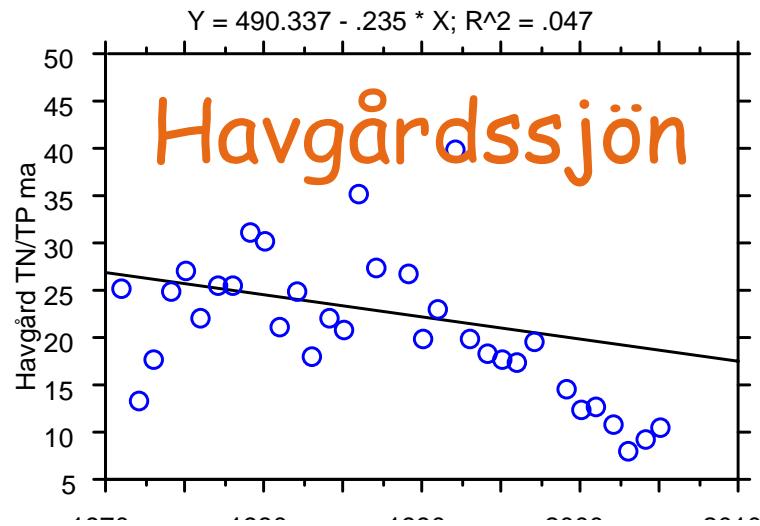
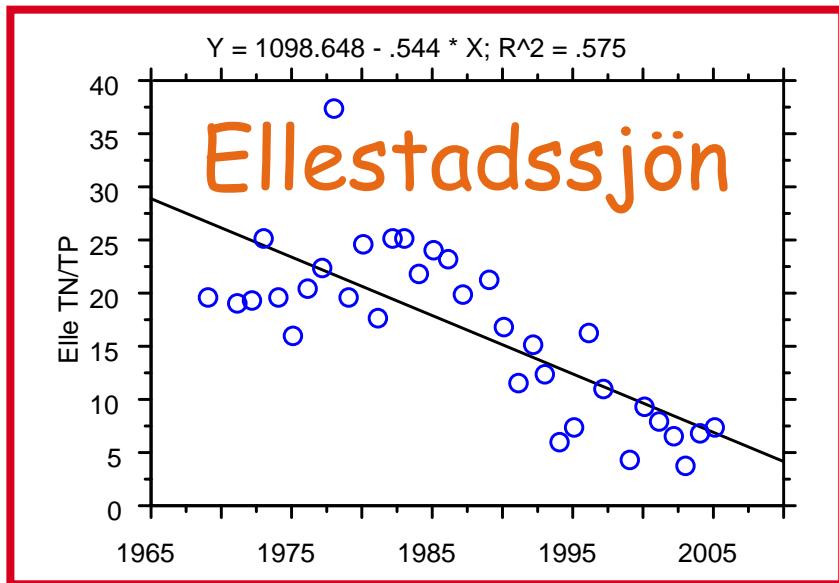
# N/P-kvoten minskade tydligast i näringrika sjöar



# Sjöar med låg N/P-kvot

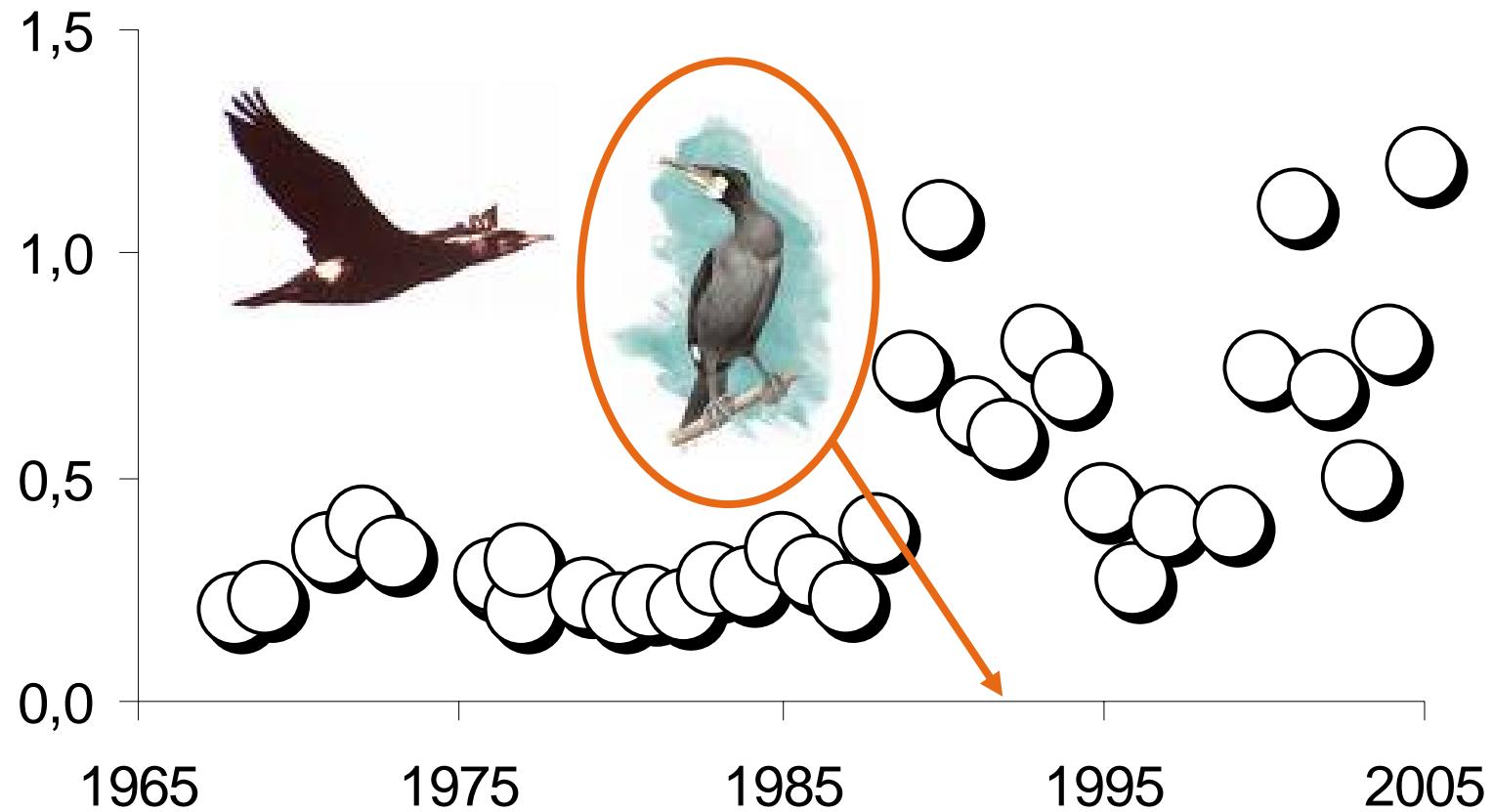


# Sjöar med låg N/P-kvot

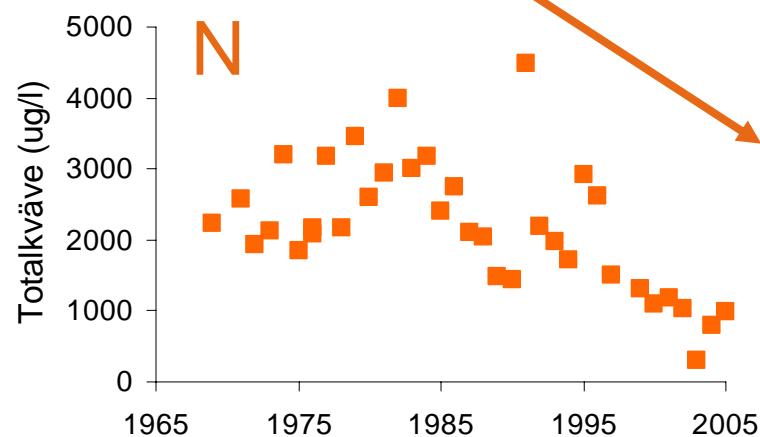
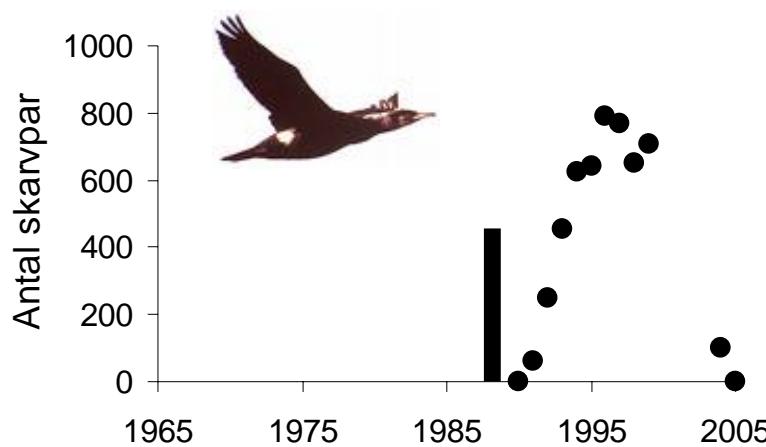
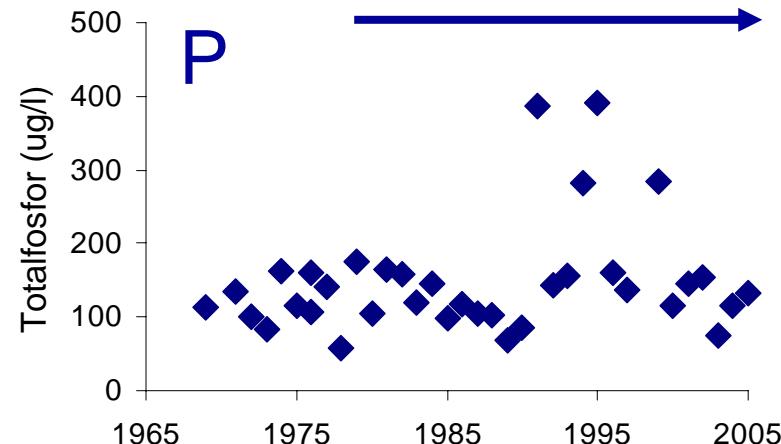
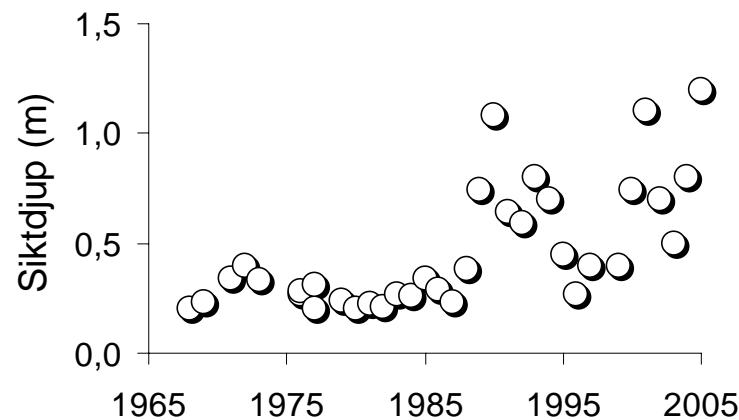


# Ellestadsjön 1968-2005

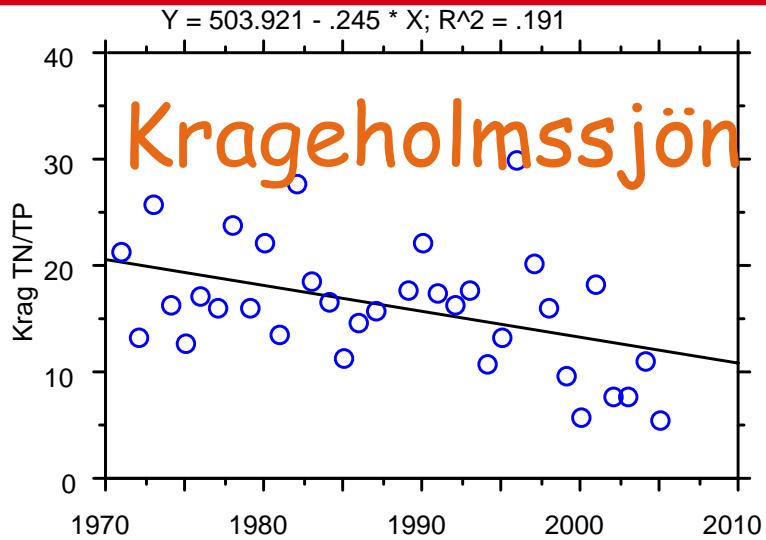
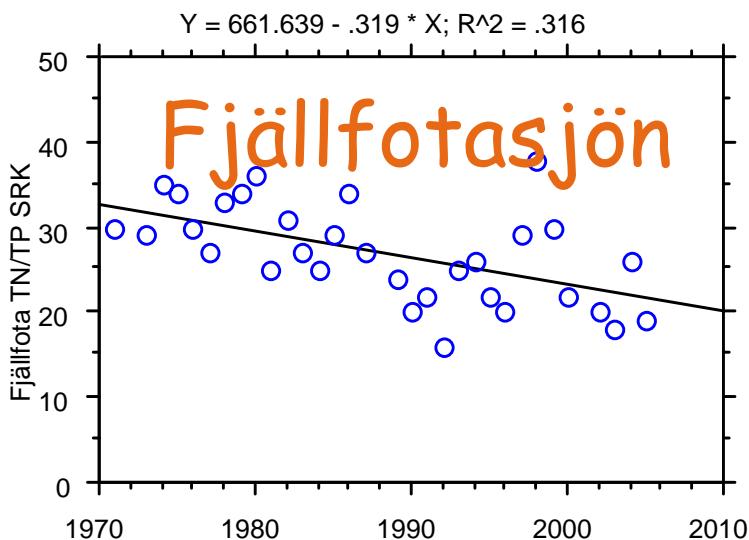
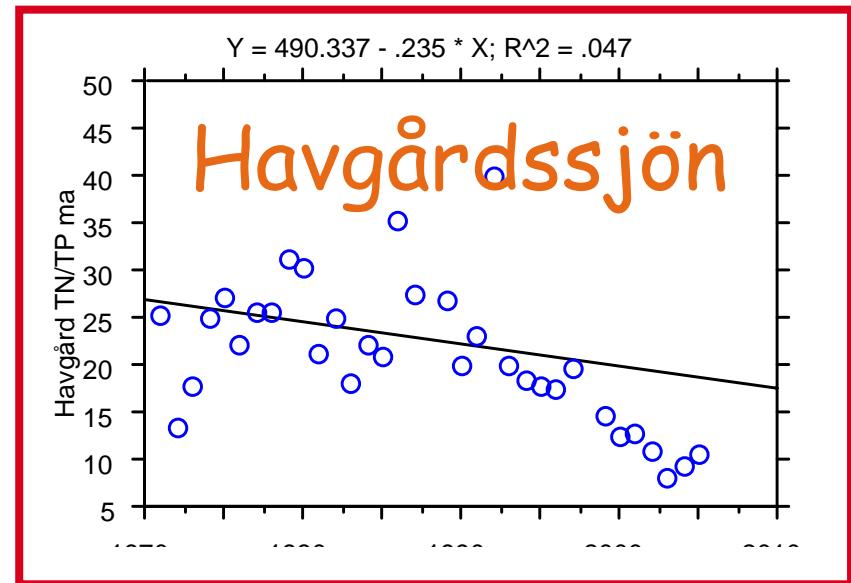
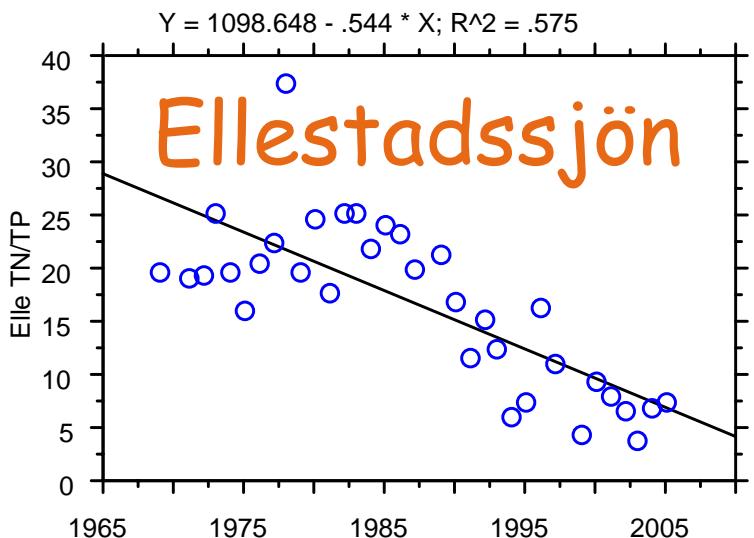
Siktdjup (m)



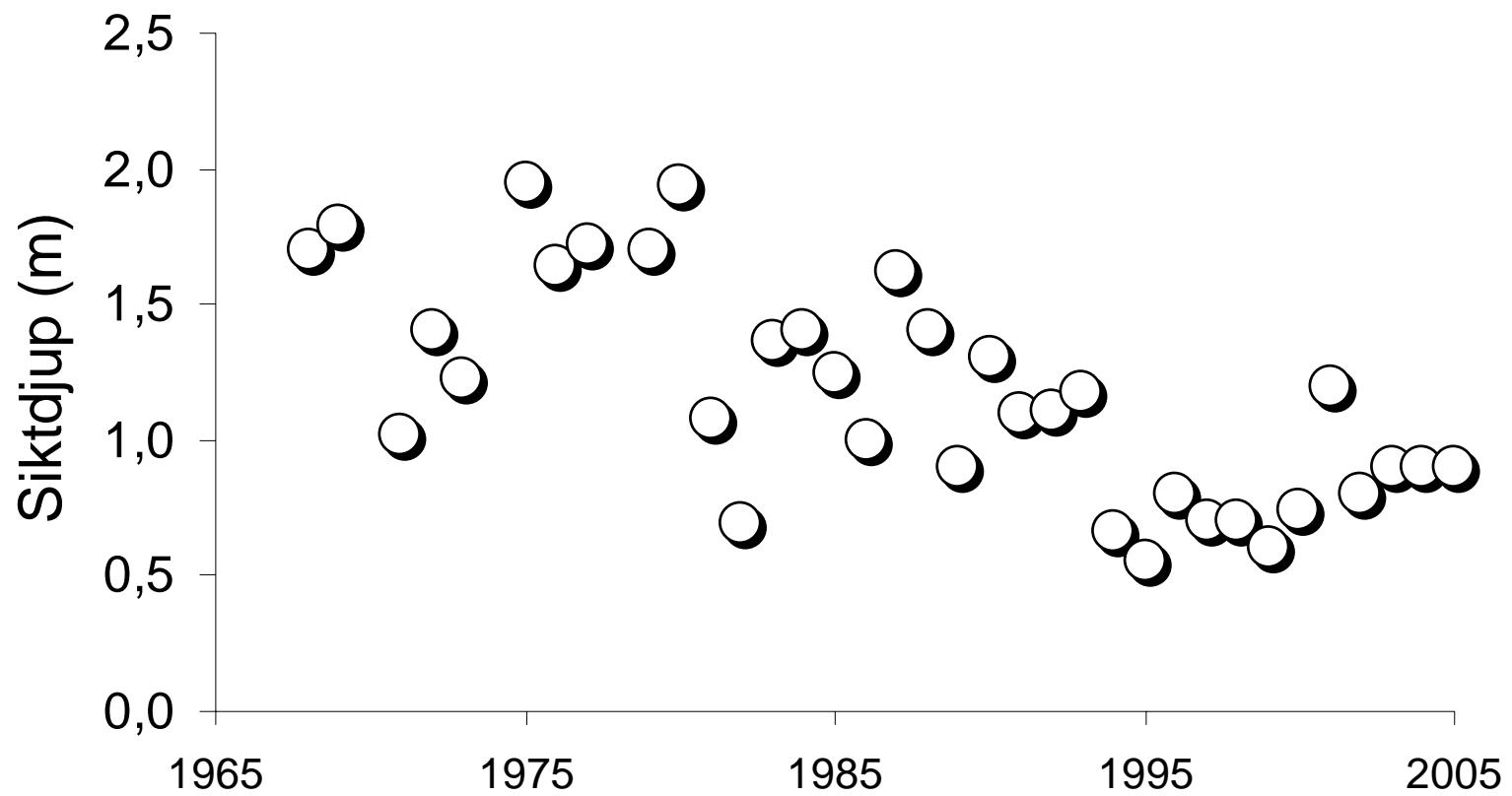
# Ellestadsjön 1968-2005



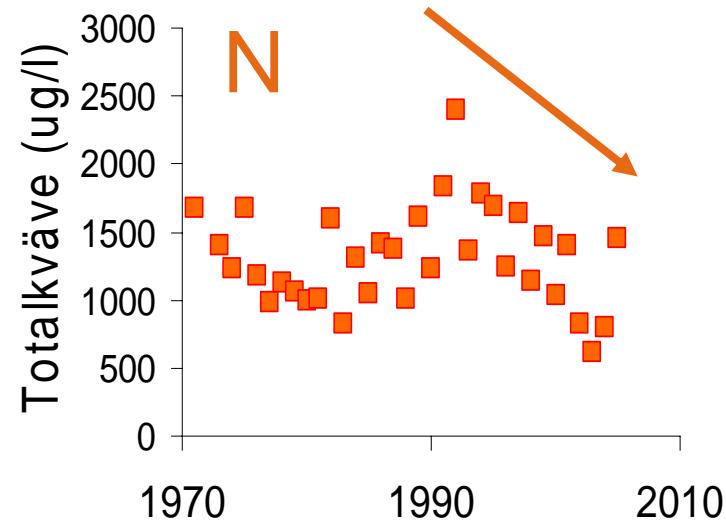
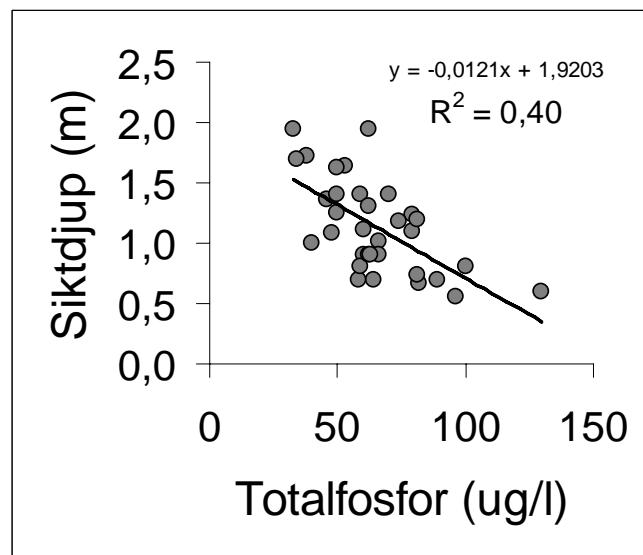
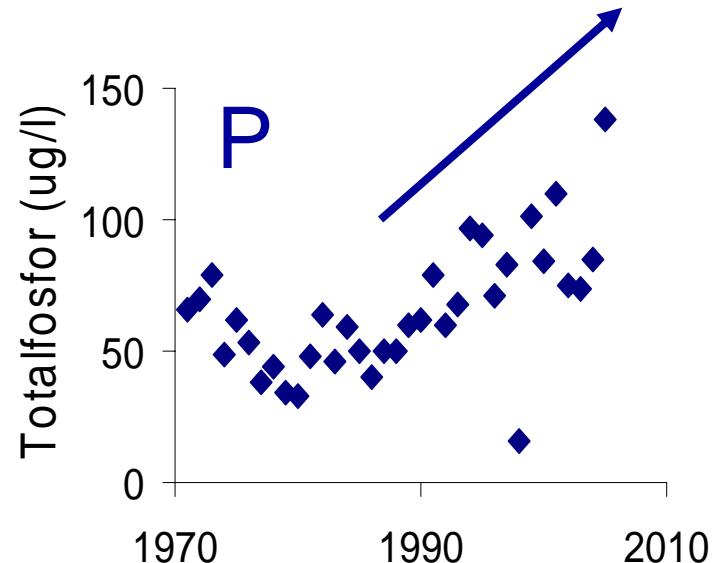
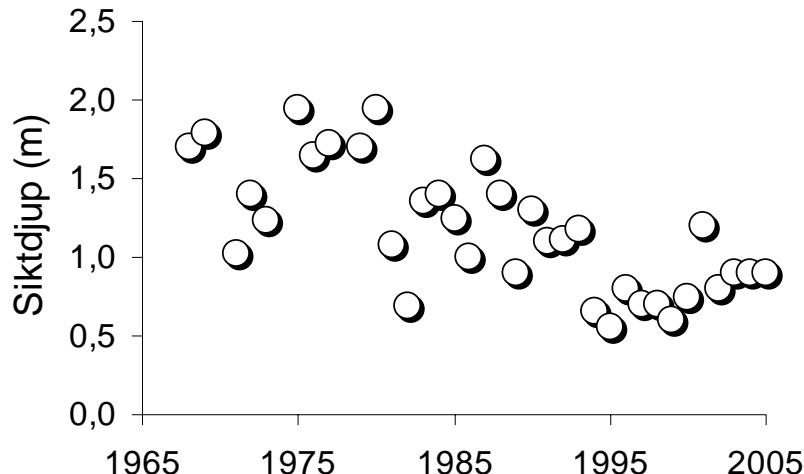
# Sjöar med låg N/P-kvot



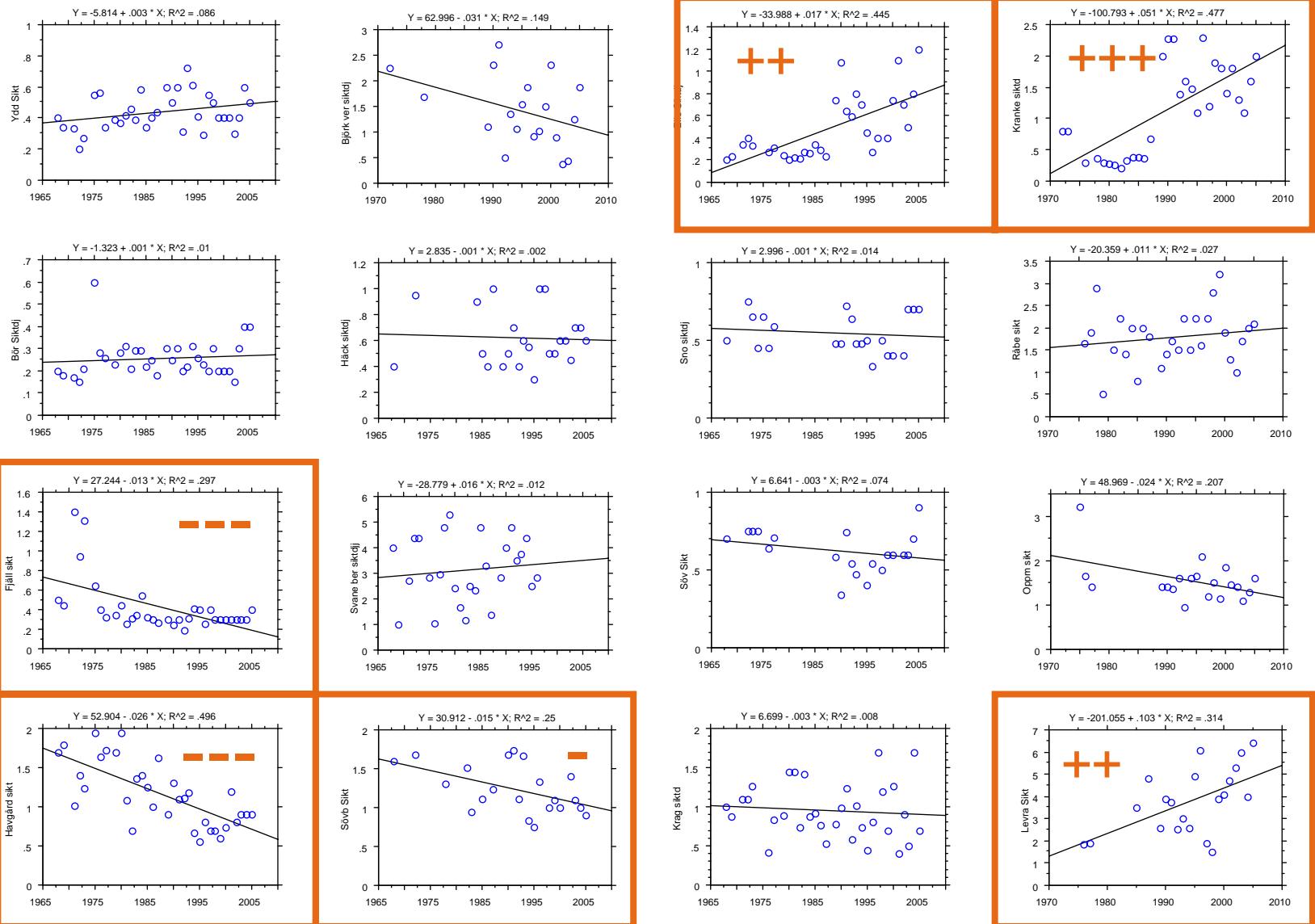
# Havgårdssjön 1968-2005



# Havgårdssjön 1968-2005



# Siktdjup 1965-2005



# Blir sjöarna fattigare? (sammanfattning)

- Ingen generell trend i N, P eller sikt djup
- ...men minskad TN-halt och N/P-kvot i några närliggande sjöar
- ...och minskad TP-halt i rel. P-fattiga
- Exempel på både successiva förändringar, vid ändrad belastning,
- ...och abrupta, p g a födovävseffekter

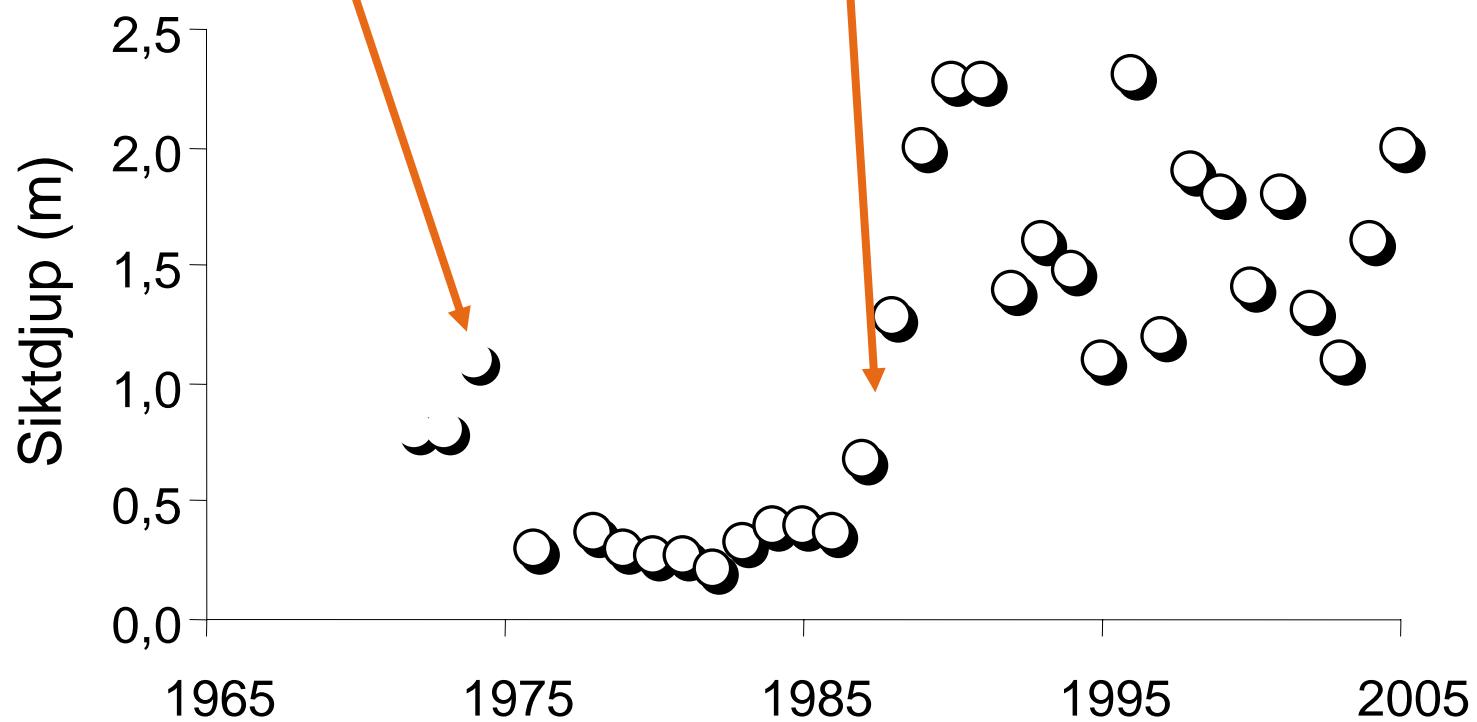


Tack!

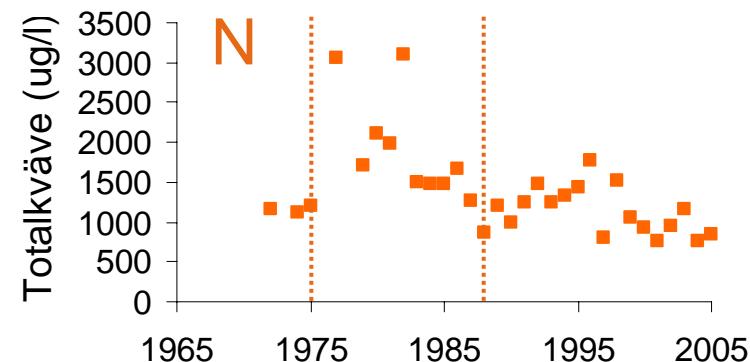
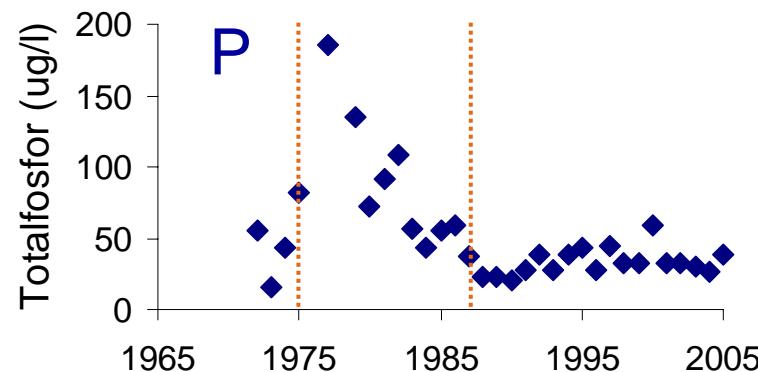
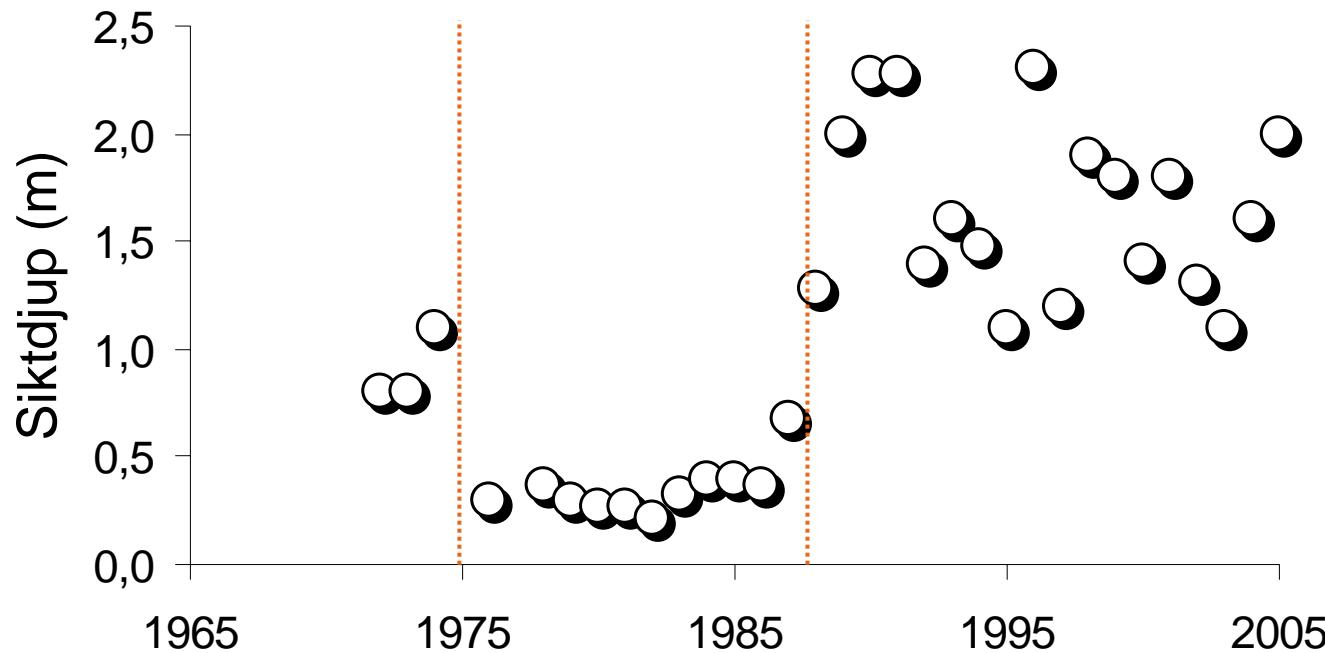


# Krankesjön 1972-2005

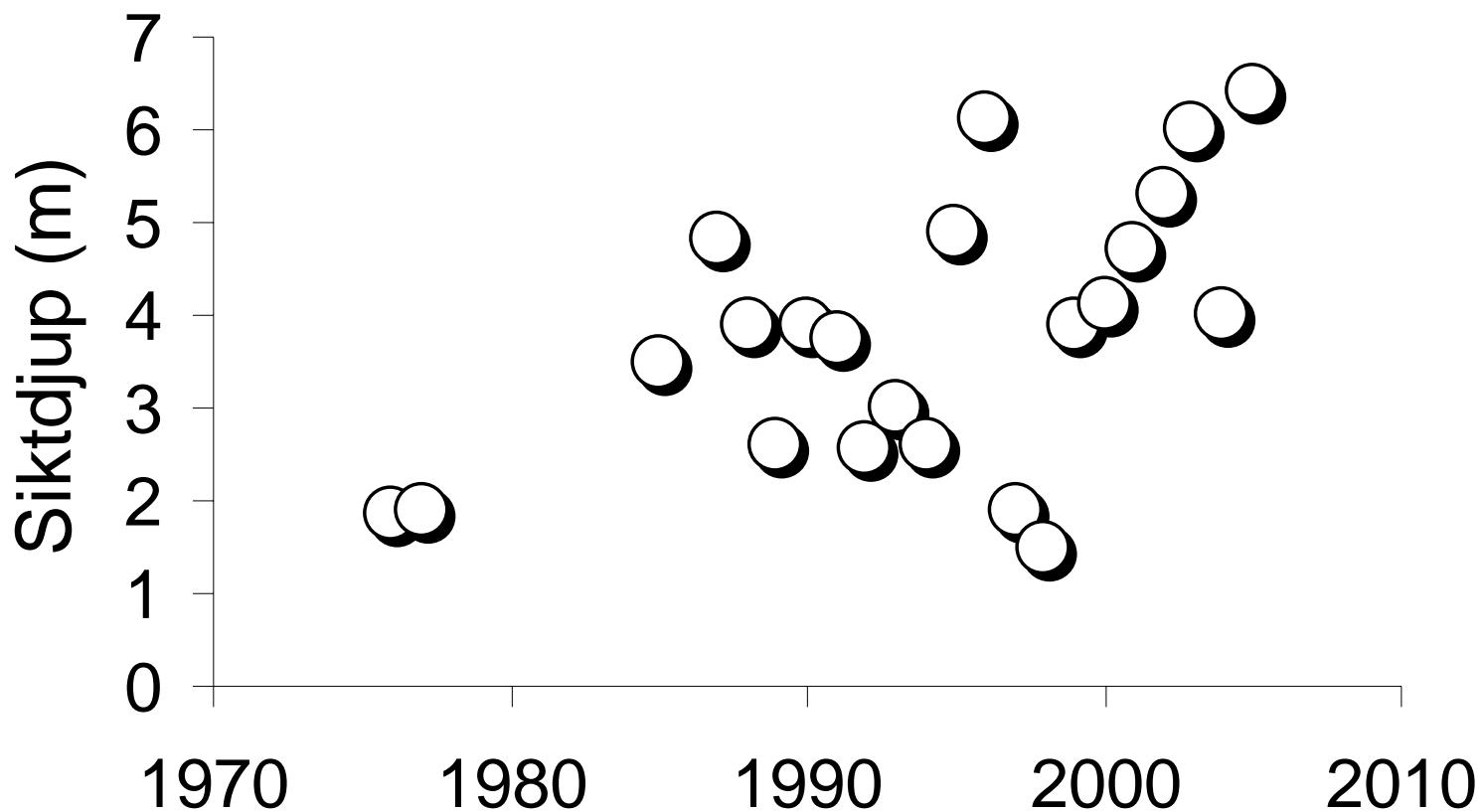
Kollaps av  
U-vegetation



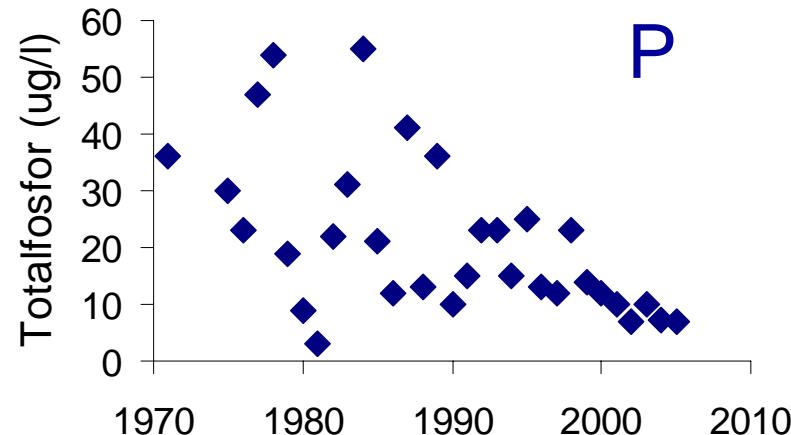
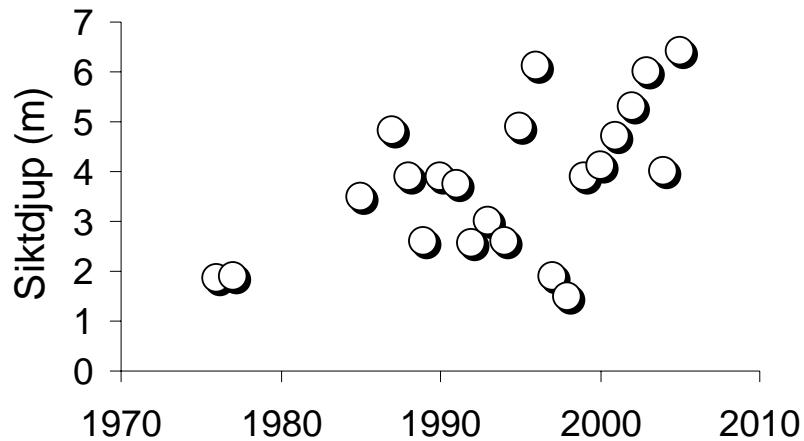
# Krankesjön 1965-2005



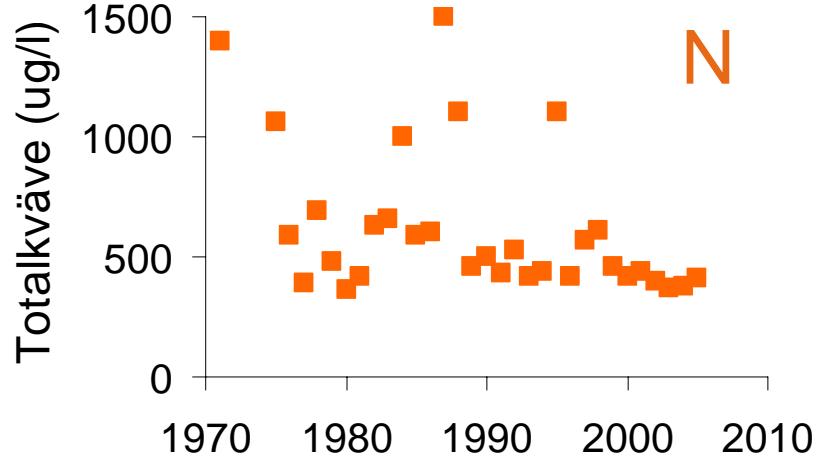
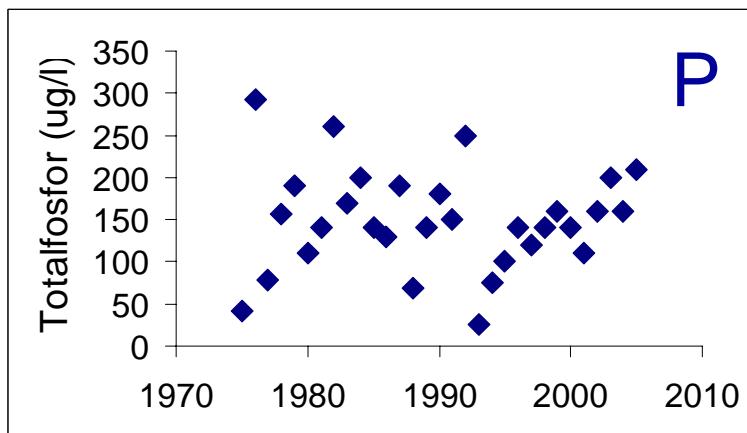
# Levrasjön 1971-2005



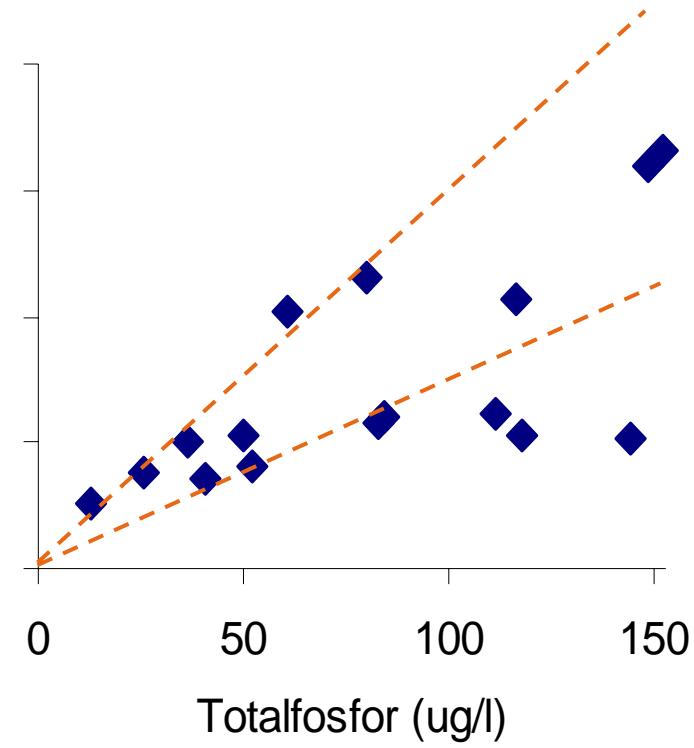
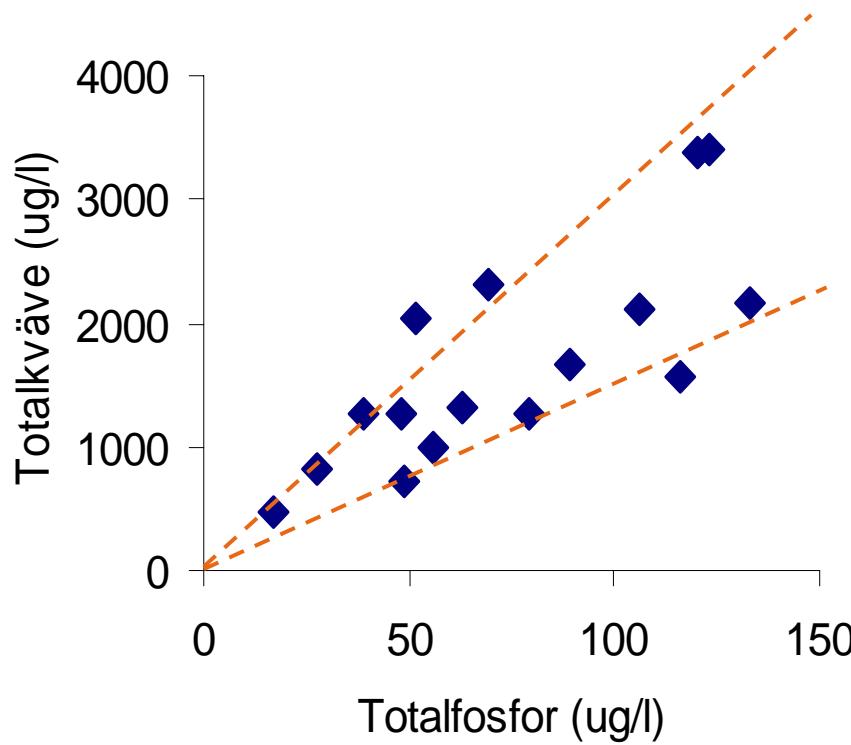
# Levrasjön 1971-2005



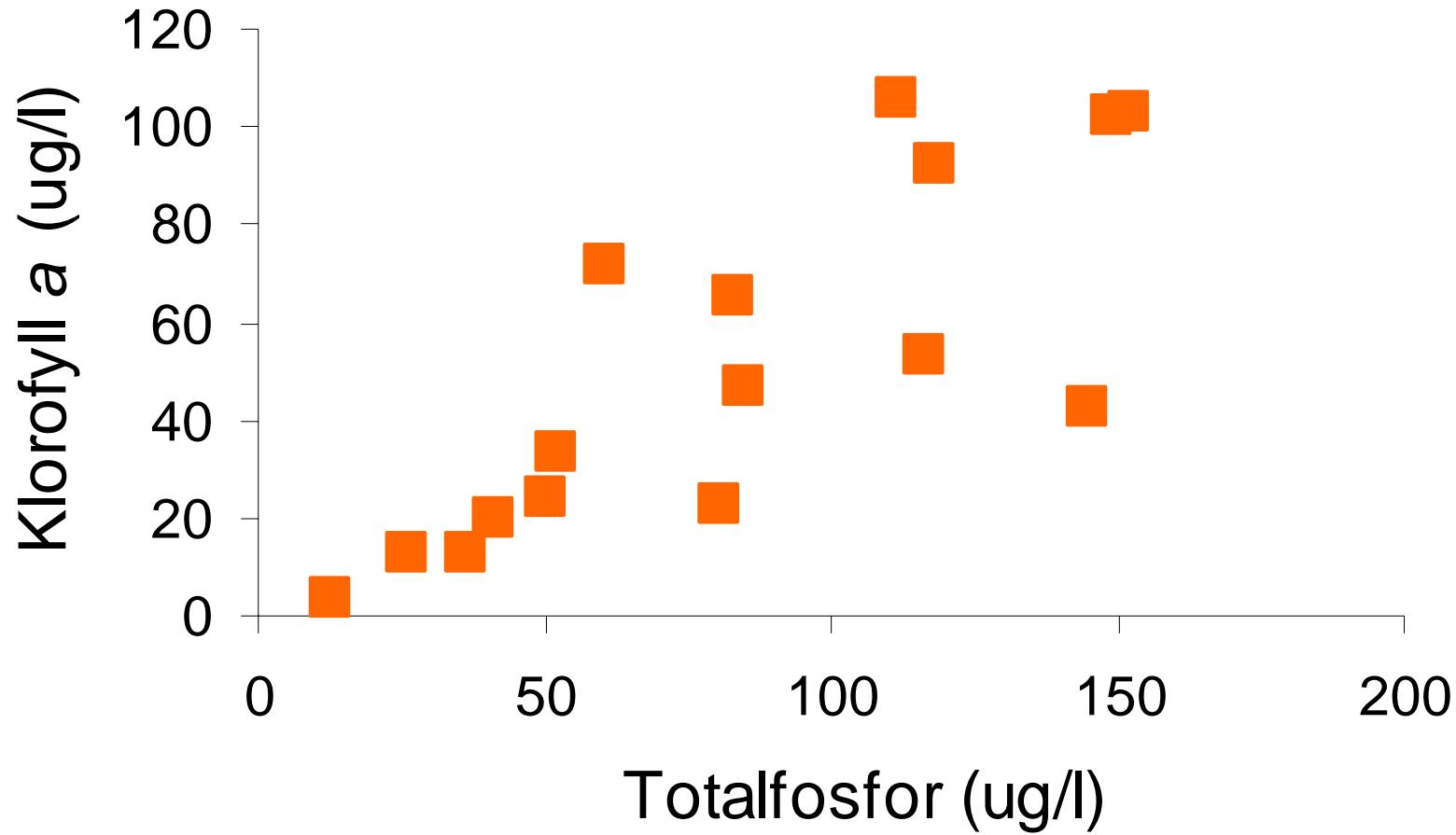
## Bottenvatten



# Fosfor- och kvävehalter



# Växtplankton (kl a) och totalfosfor



# Växtplankton (kl a) och totalfosfor

