



# Miljögifter i biota

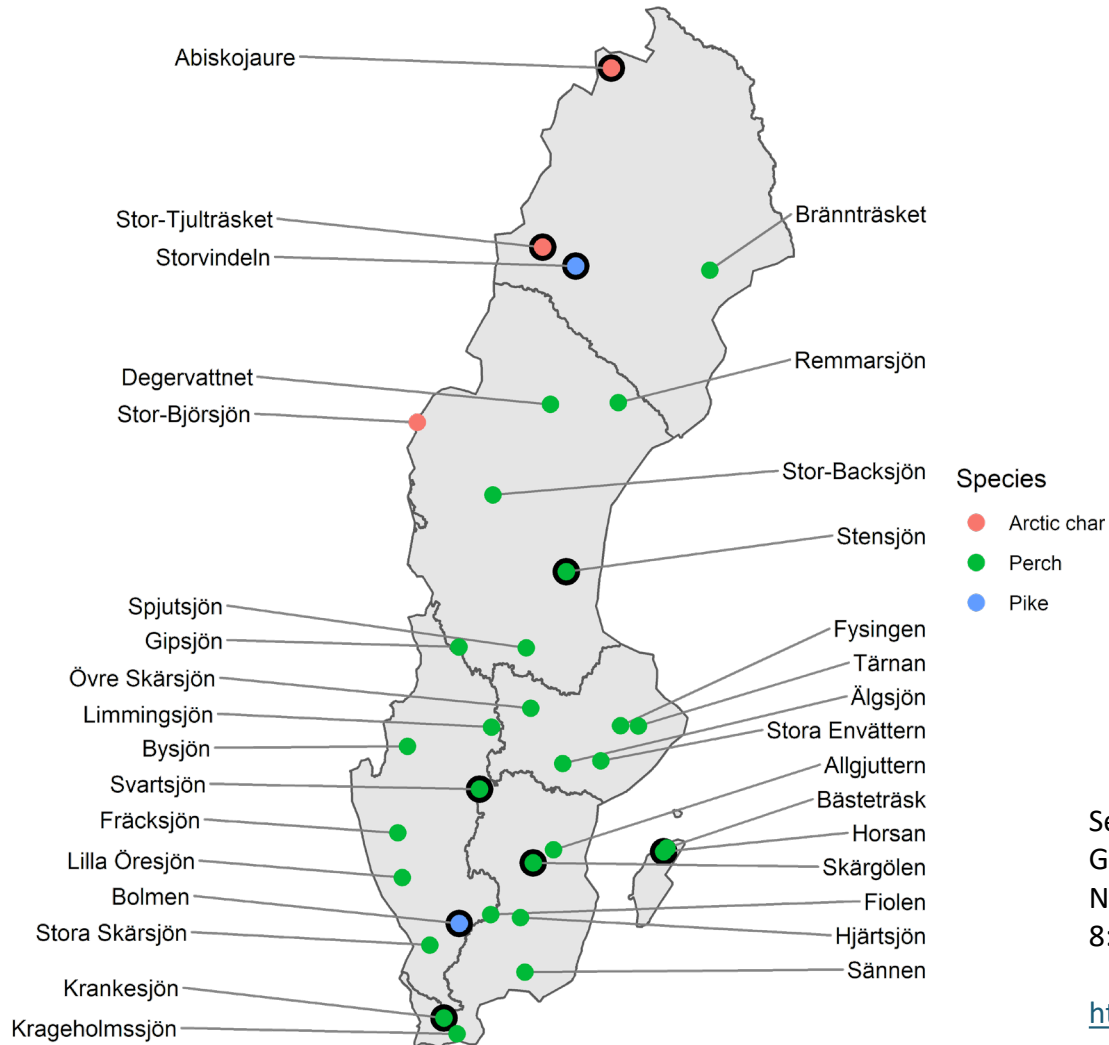
Suzanne Faxneld

Anne Soerensen

Vattenmiljöseminariet 22-23/1-2025

# Limniska övervakningen

32 limniska stationer



Abborre



Gädda



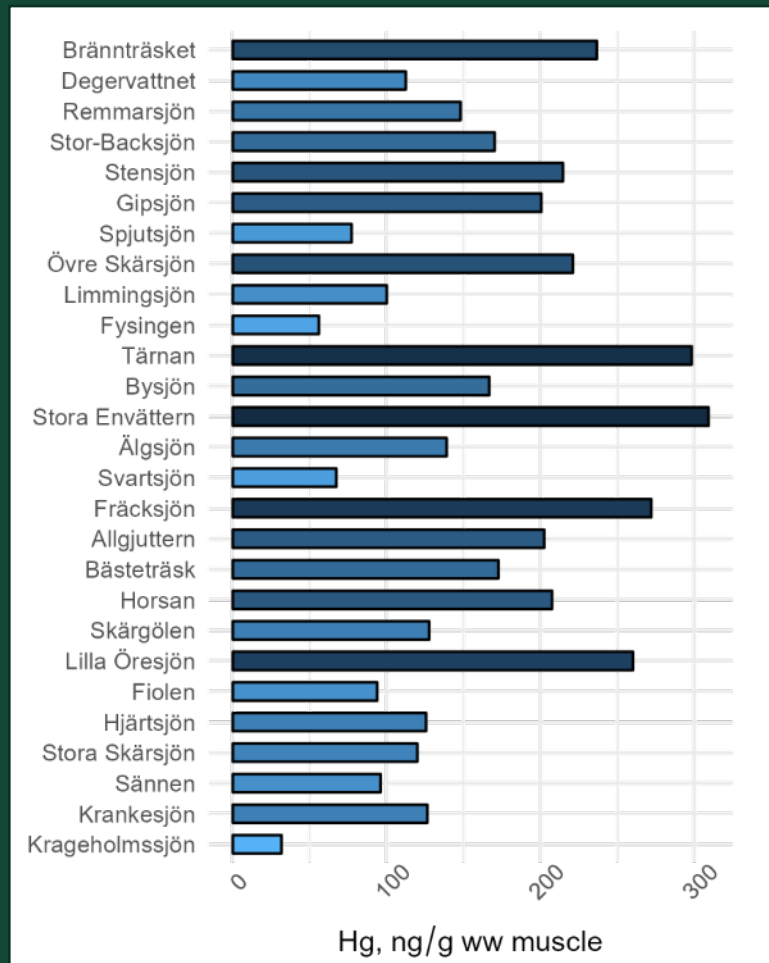
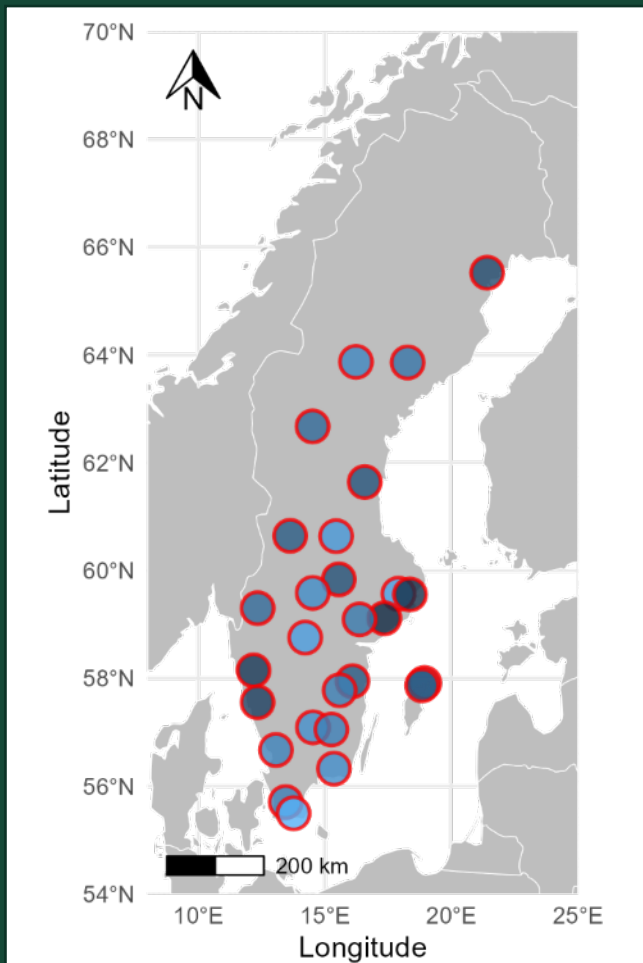
Röding

Senaste rapporten; Faxneld S., Eliassen J., Jonsson C., Soerensen A.L (2024).  
Graphic and statistical overview of temporal trends and spatial variations within the Swedish  
National Monitoring Programme for Contaminants in Freshwater Biota (until 2022 year's data),  
8:2024, Swedish Museum of Natural History, Stockholm, Sweden.

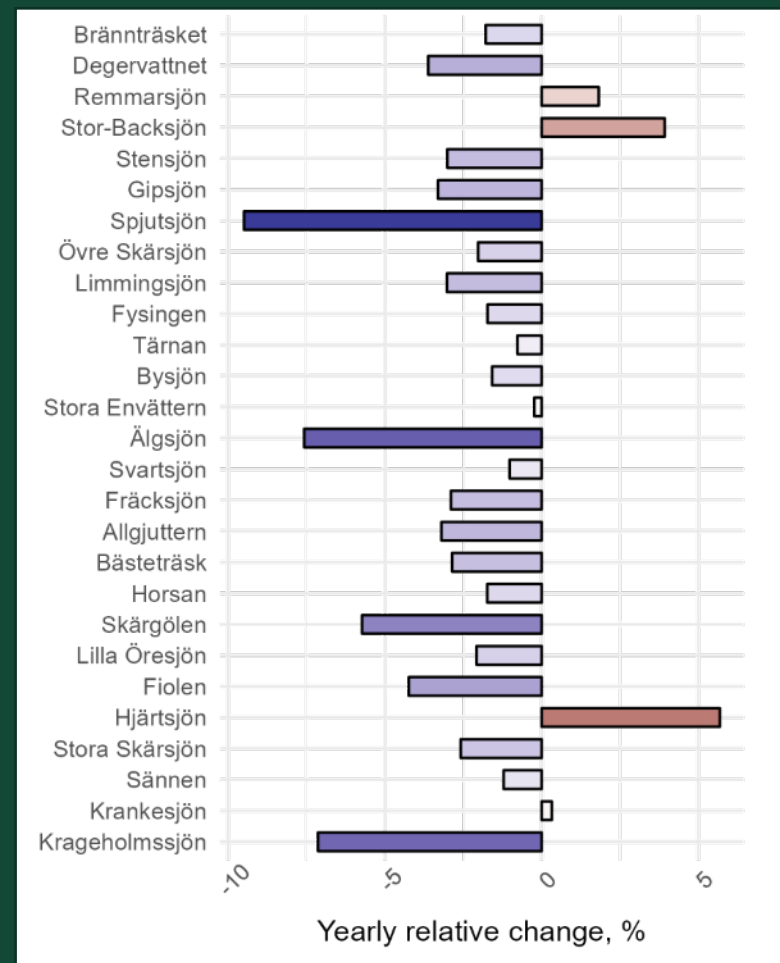
<https://urn.kb.se/resolve?urn=urn:nbn:se:nrm:diva-5643>



# Kvicksilver – abborre



Medel 2020-2022

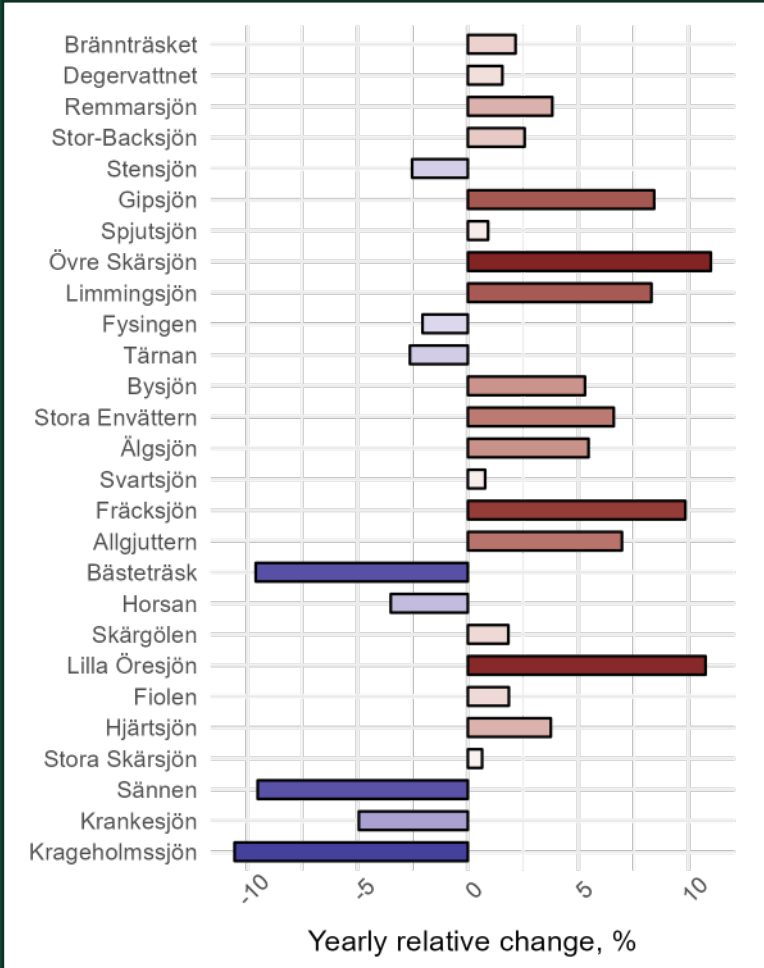


Förändring 2013-2022

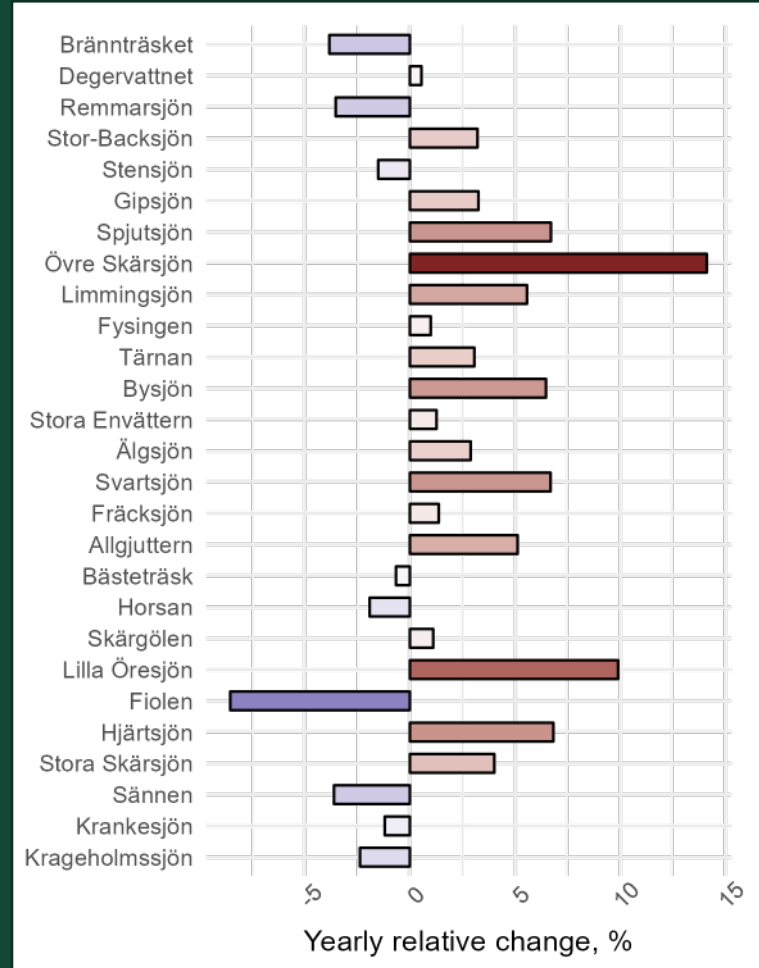
○ EQS biota, 20 ng/g vv helkropp  
= 24 ng/g vv muskel (omräknat)

# Övriga metaller – abborre

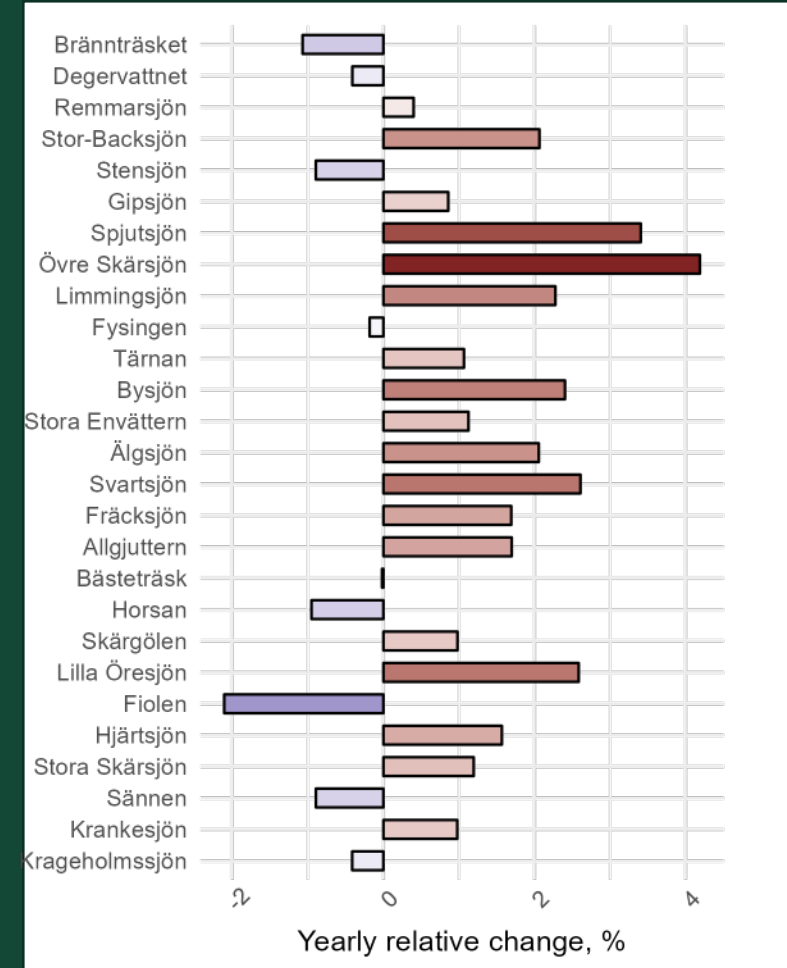
Aluminium, 2013-2022



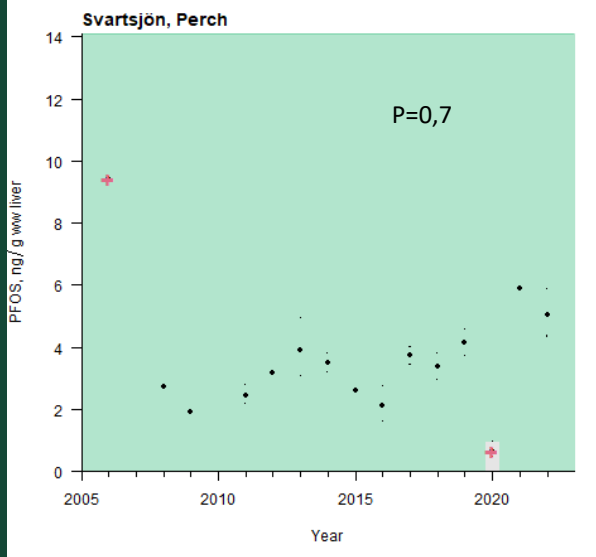
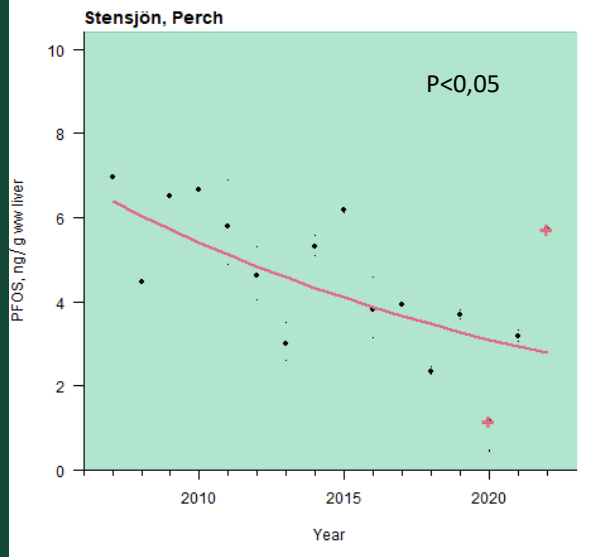
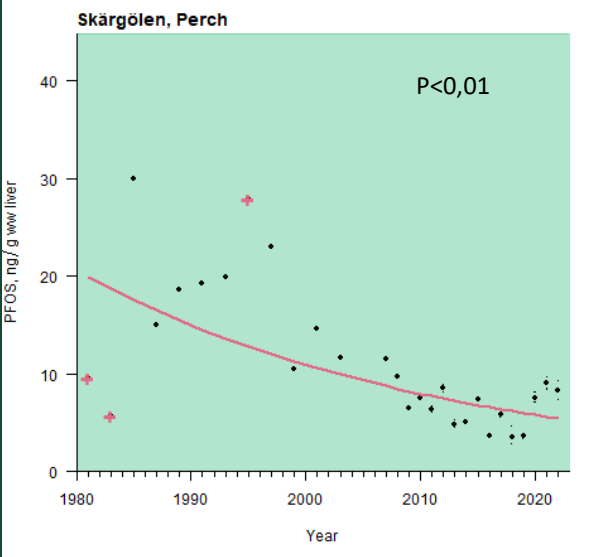
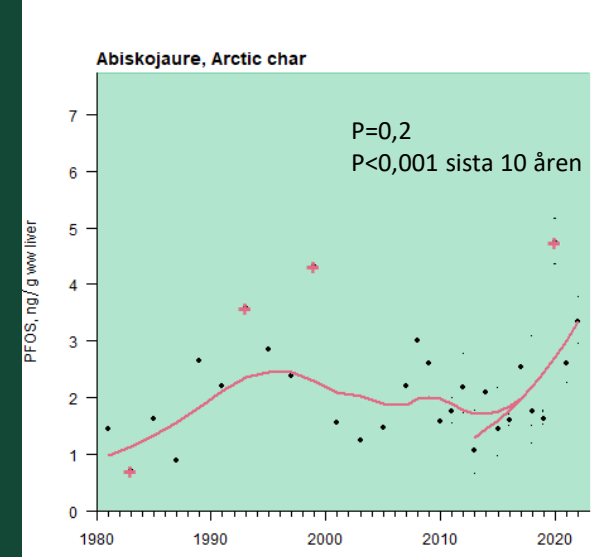
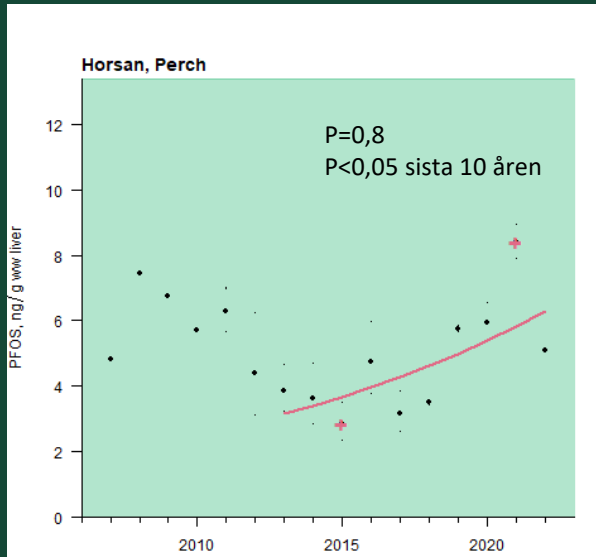
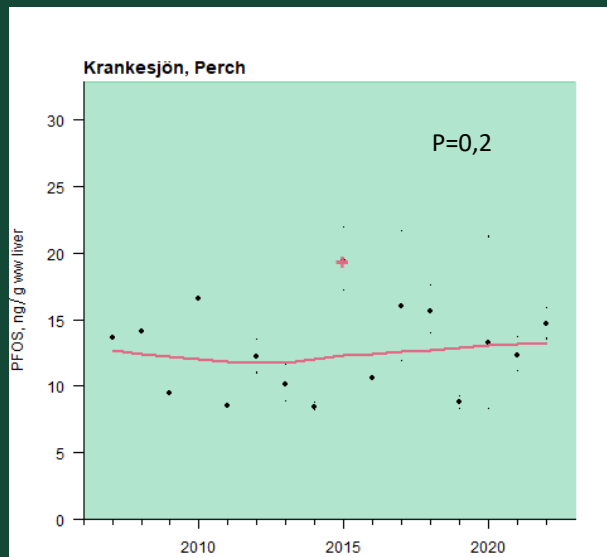
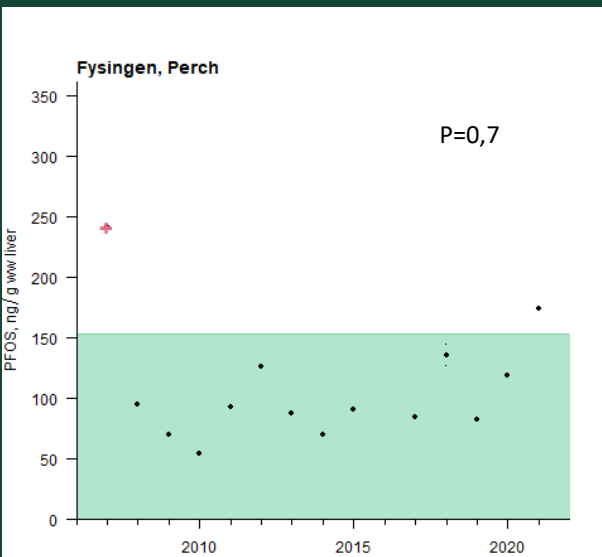
Koppar, 2013-2022



Zink, 2013-2022

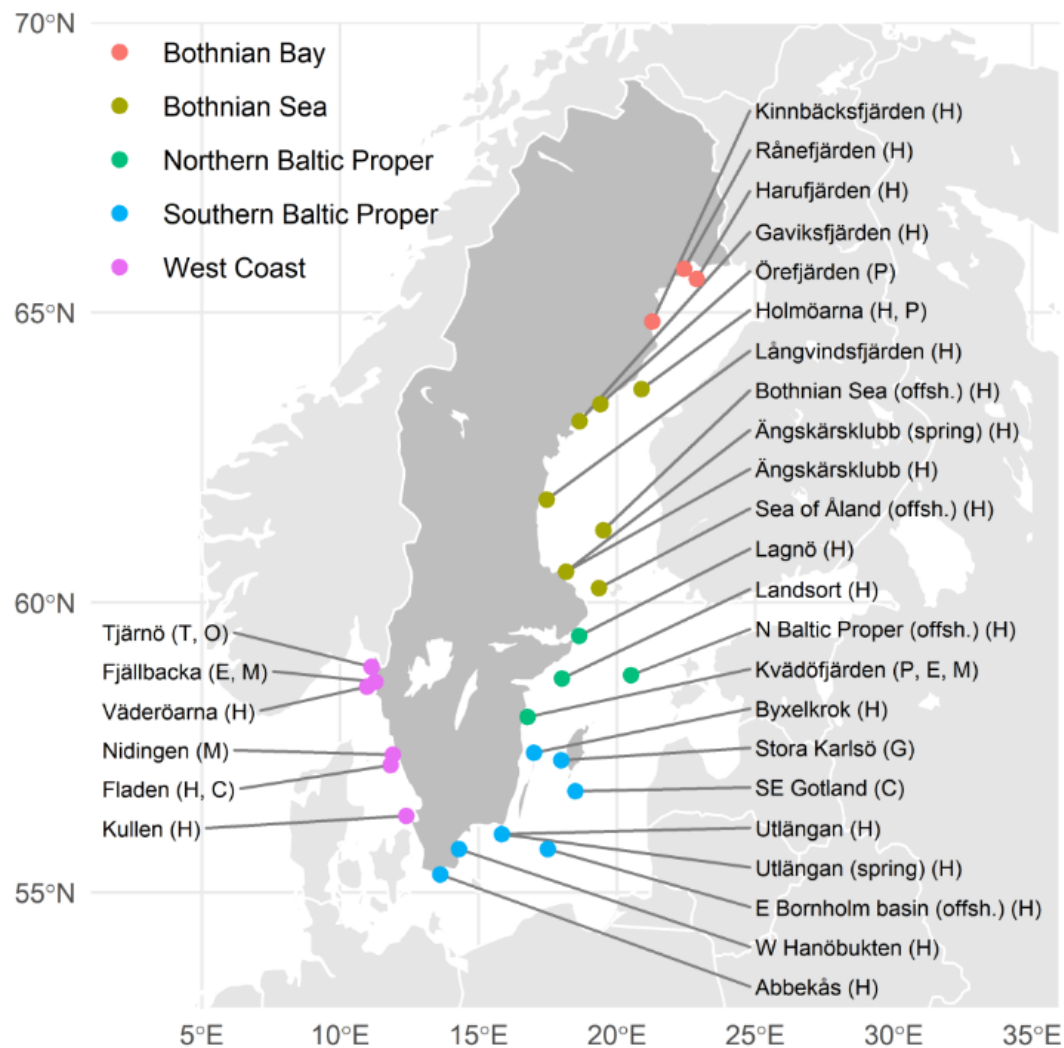


# PFOS – inga generella nedåtgående trender



# Marina övervakningen

## 27 marina stationer



Strömming (H)



Abborre (P)



Tånglake (E)



Torsk (C)



Blåmussla (M)



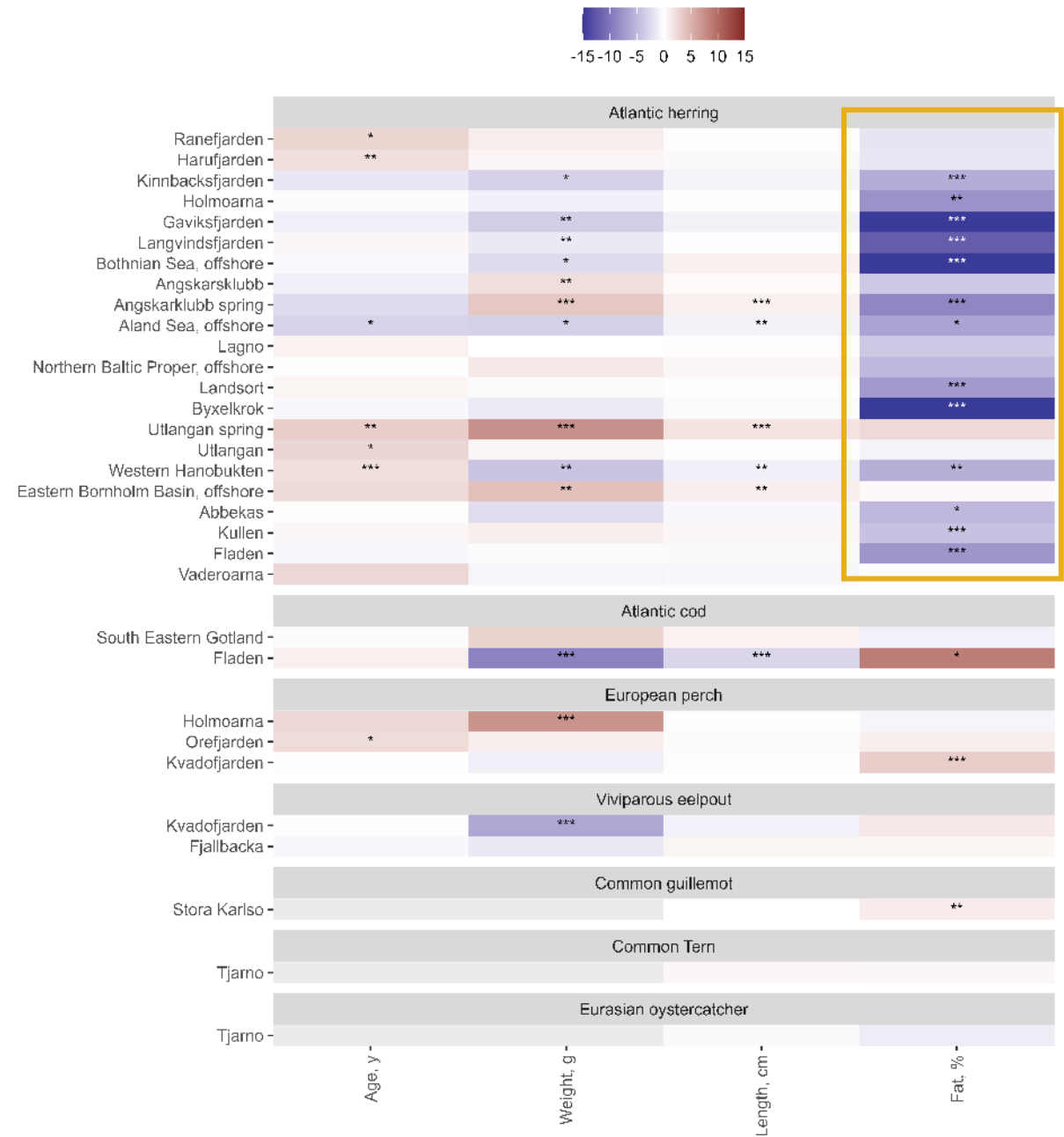
Sillgrissleägg (G)  
Strandskata (O),  
fisktärna (T)

Resultat och data kommer från; Soerensen A.L, Jonsson C., Forsberg A., Eliassen J., Stjärnkvist N., Faxneld S (2025).  
The Swedish National Monitoring Programme for Contaminants in Marine Biota (until 2023 year's data), In Prep., Swedish Museum of  
Natural History, Stockholm, Sweden.

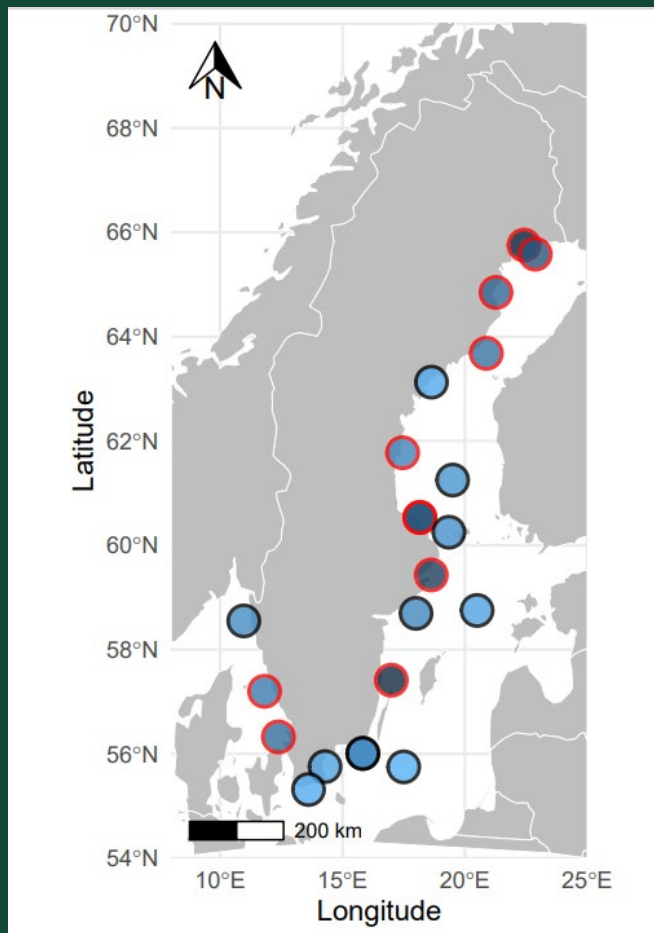
# Biologdata

Generell nedgång av fetthalt  
i sill/strömming sista 10 åren

Biological data, yearly percent change (2014-2023)



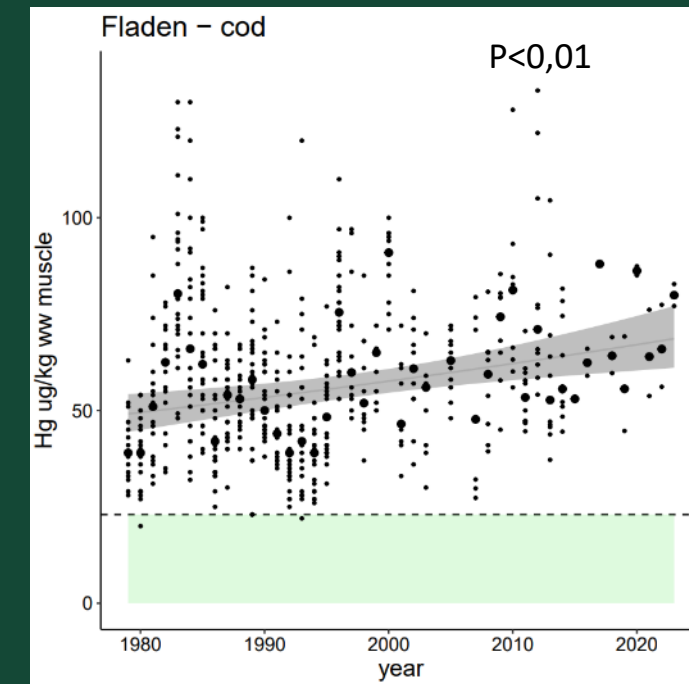
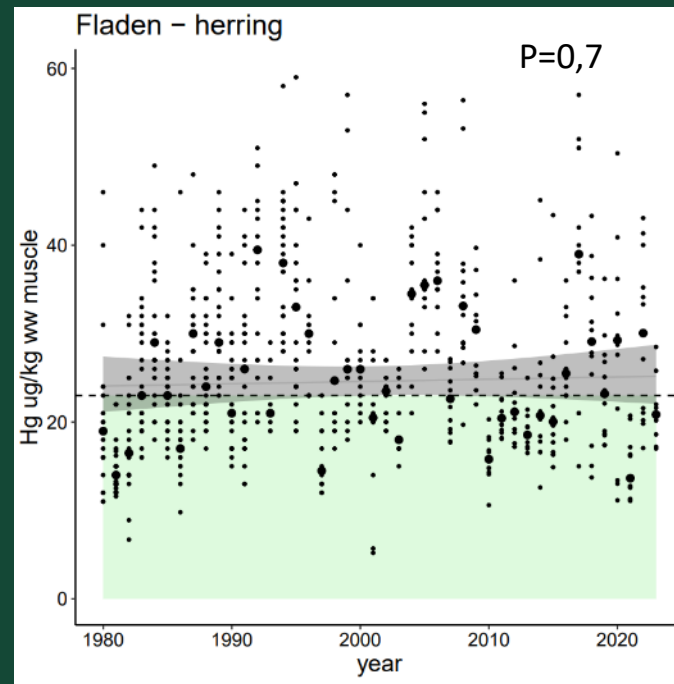
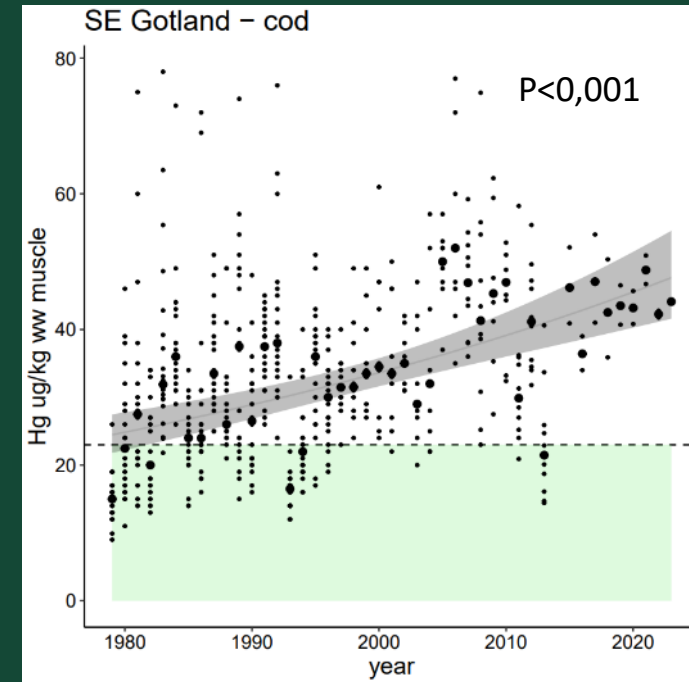
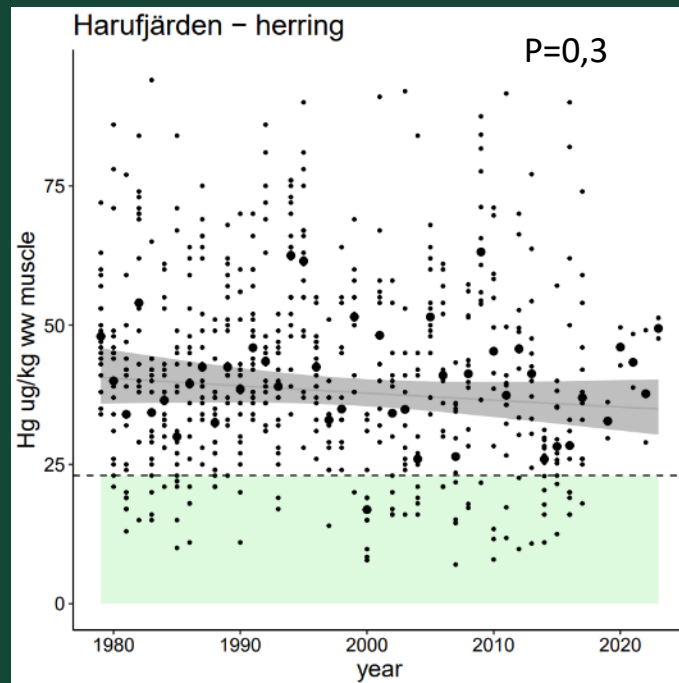
# Kvikksilver



Sill/strömning, medel för 2023

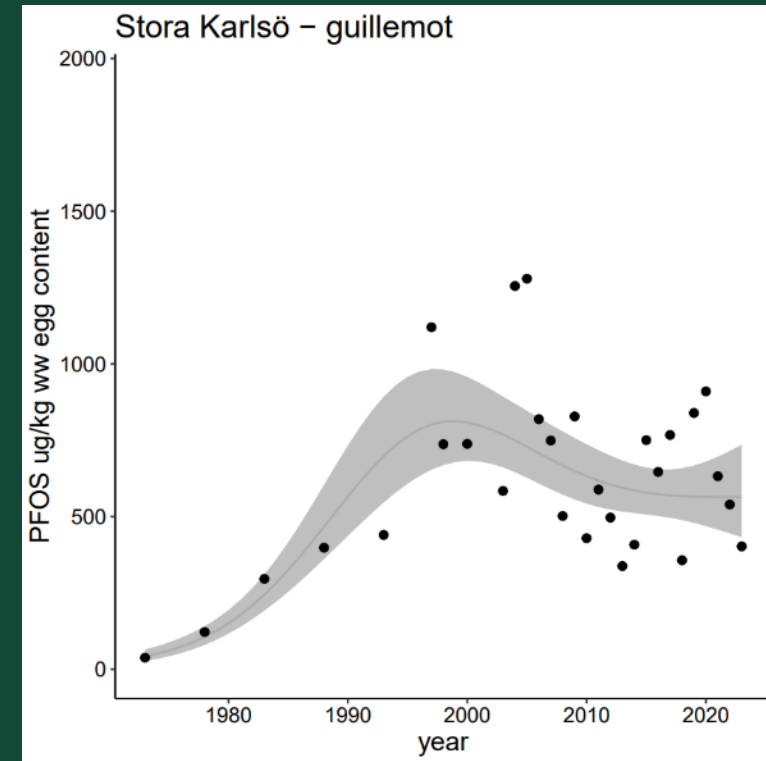
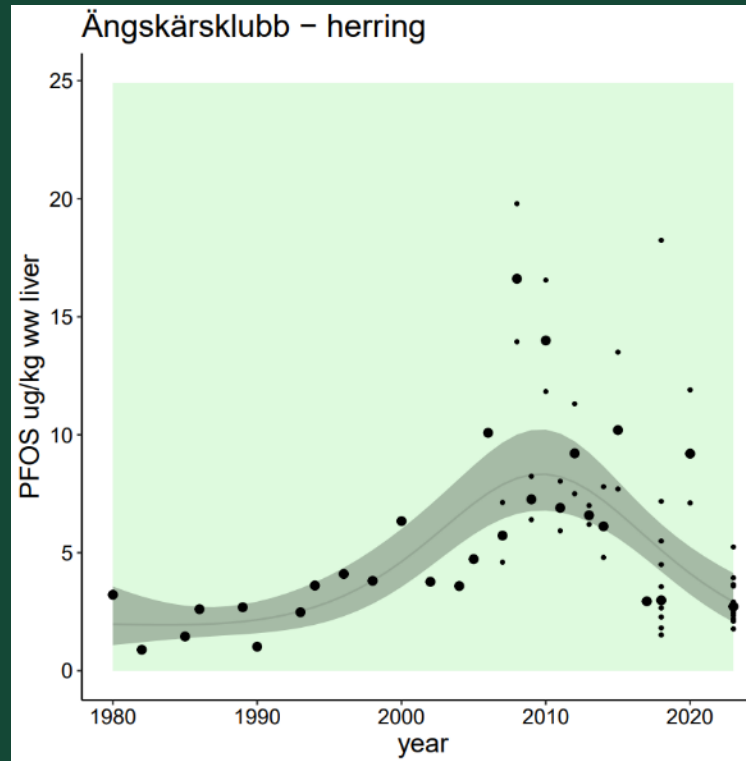
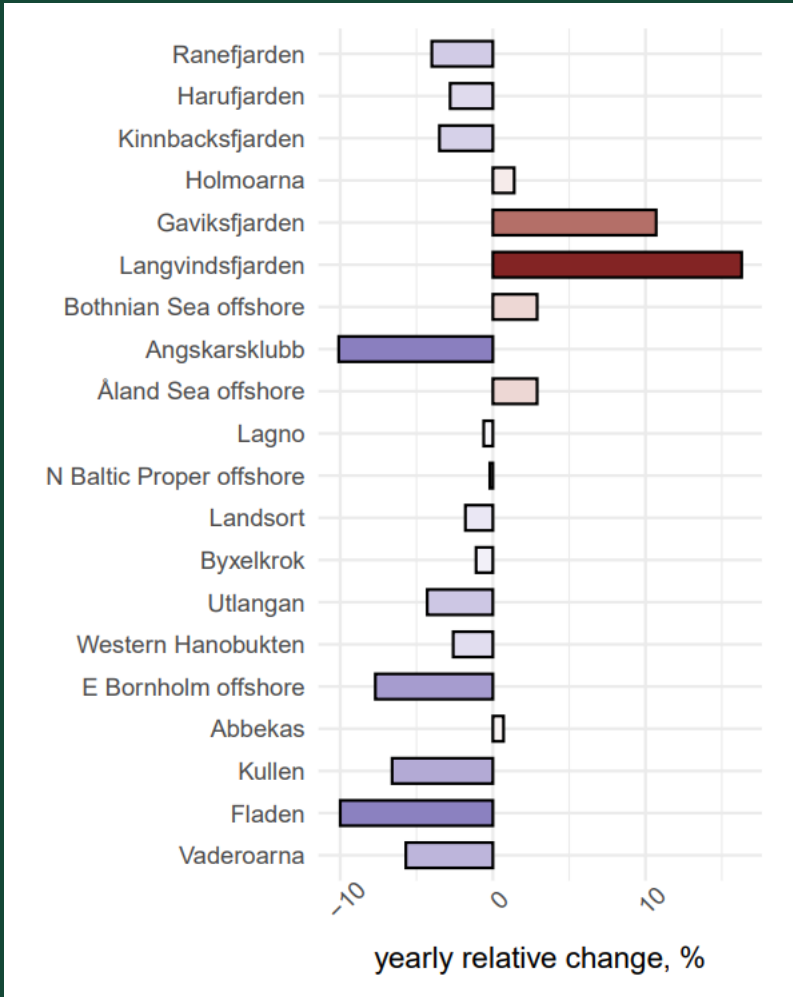
EQS<sub>biota</sub> sekundärförgiftning 20 ug/kg vv (helkropp)

Koncentration >EQS<sub>biota</sub>





# PFOS

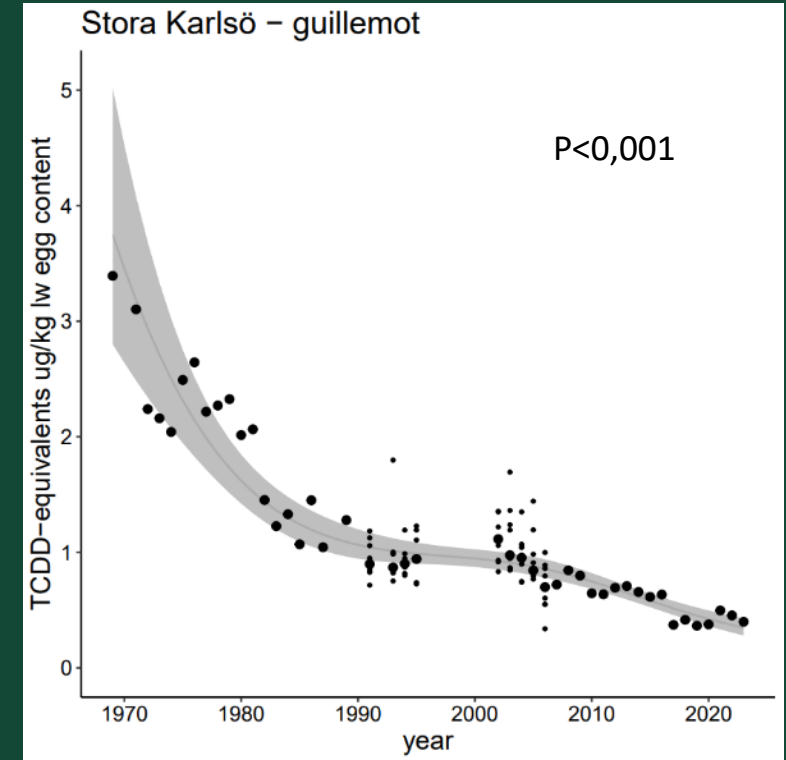
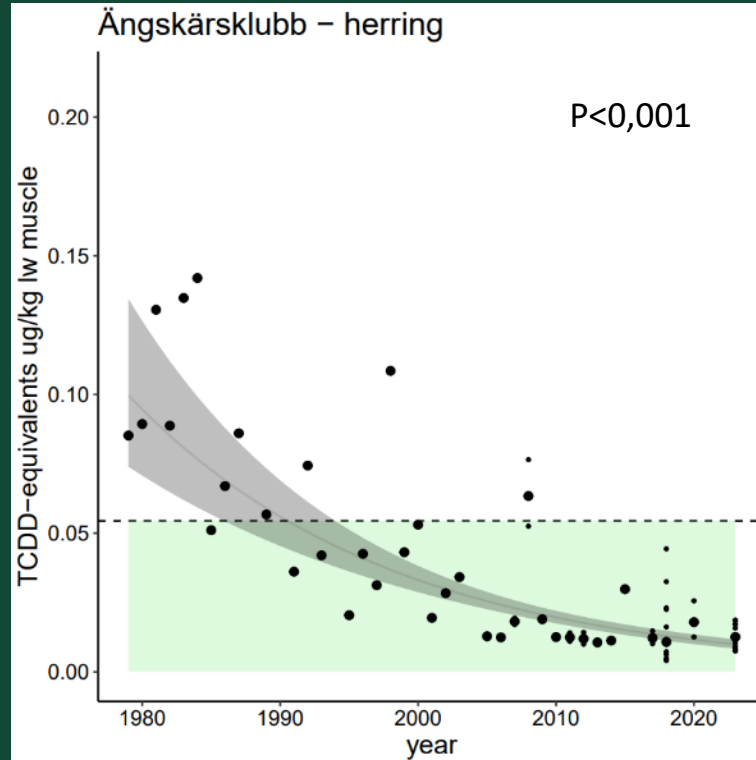
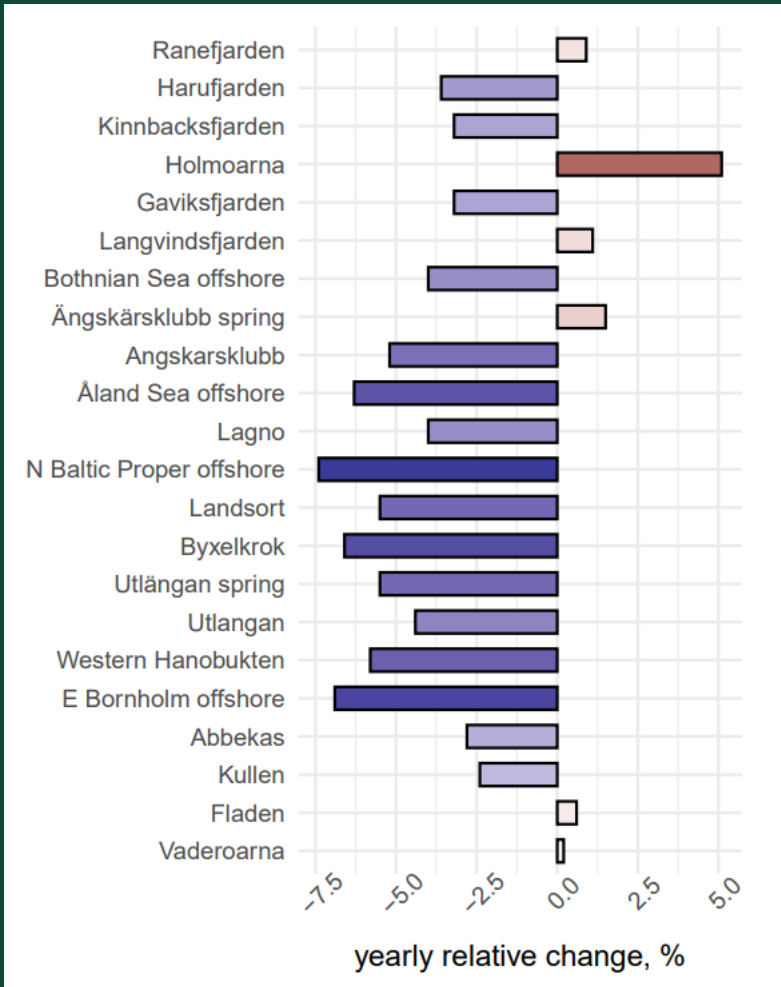


Sill/strömming förändring 2014-2023


EQS<sub>biota</sub> human hälsa 9,1 ng/g vv (muskel)

2009: PFOS införs i Stockholmkonventionen

# Dioxiner och furaner



Sill/strömming förändring 2014-2023


**QS<sub>biota</sub>**, försäljningsgränsvärde  
 (PCDD+PCDF= 0,0035 ug/kg vv)



Tack!