

Umhvørviseftiransing

- dálkingarevni í Føroyum

Granskingardeildin

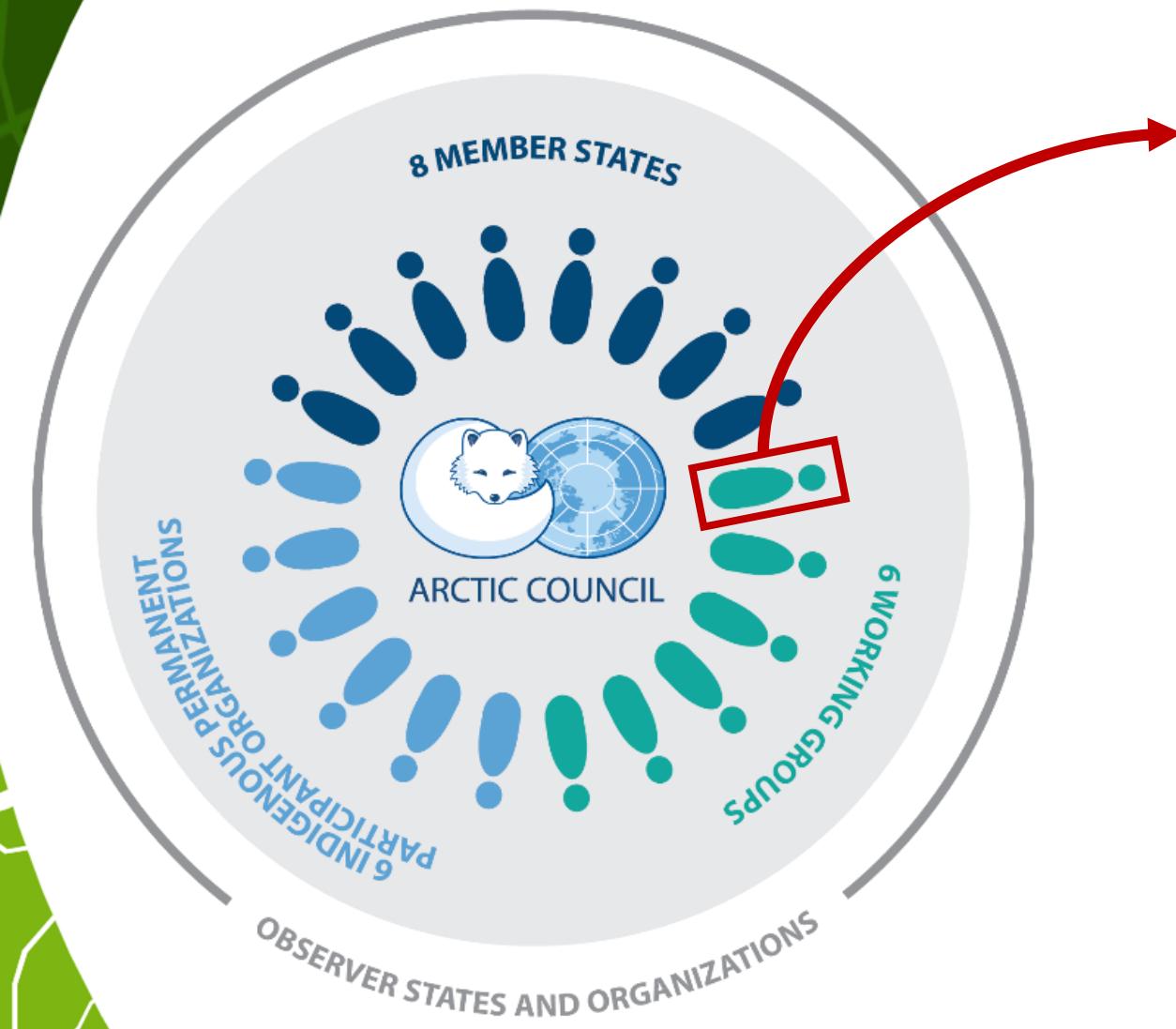
umhvørvisstovan

Skráin:

- AMAP – Arctic Monitoring and Assessment Programme
- Hvat verður kannað í Føroyum?
- Dálkingarevni
- Tíðarseriur
- Samandráttur



Arctic Monitoring and Assessment Programme



AMAP

- Stovnsett í 1991
- Endamál:
 - At fáa eina einháttáða og samanberiliga lýsing av útbreiðsluni av umhvørviseitrandi evnum í AMAP ókinum
- meira er at finna á: www.apmap.no

AMAP øki



í Føroyum

- Kanningar síðani 1997
- Ymisk djórasløg
- Fokus á:
 - Tungmetallir
 - Seint niðurbrótilig lívrunnin dálkingarevni (persistant organic pollutants, POPs)



Skráin:

- AMAP – Arctic Monitoring and Assessment Programme
- **Hvat verður kannað í Føroyum?**
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Hvat verður kannað í Føroyum?

annað hvørt ár

Seyður

Tal: 10 ær
10 lomb
Stað: Norðadalur*



Astrid Andreasen, www.nordlysid.fo

Teisti

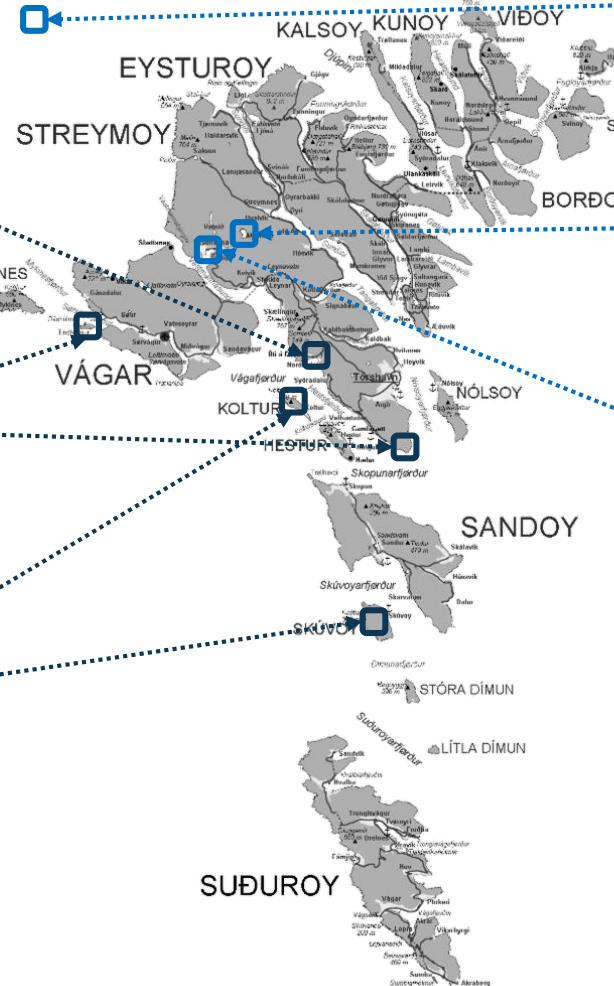
Tal: 15
Stað: Sveipur
Tindhólmur



www.rspb.org.uk

Teistaegg

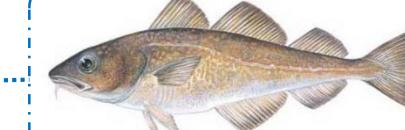
Tal: 20
Stað: Skúvoy
Koltur



hvørt ár

Toskur

Tal: 25-30
Stað: Mýlingsgrunnur



Astrid Andreasen, www.snar.fo

Bleikja

Tal: 20
Stað: Á Mýrunum



Bente Olesen Nystrøm, www.snar.fo

Havhestur

Tal: 10
Stað: Vestmanna*



www.rspb.org.uk

Grind

Tal: 20 ungar hannar
15 vaksnir



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umhverfisstovan

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Dálkandi evni

Hyggja at í dag

- **Tungmetallir**

- Kyksilvur (Hg)
- Selen (Se)
- Kadmium (Cd)

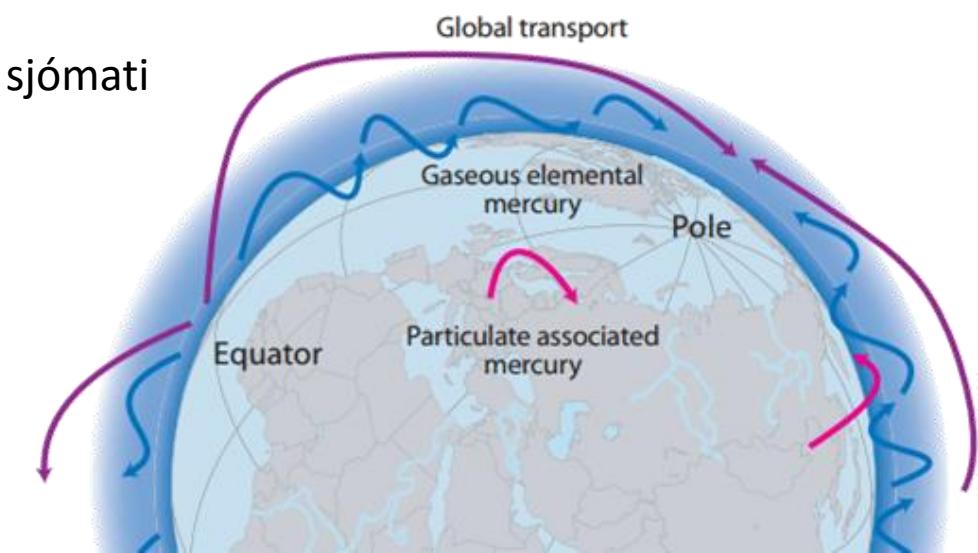
- **Persistant Organic Pollutants (POPs) (Seint niðurbrótilig lívrunnin evni)**

- | | |
|---------------------------------------|--------------------------------------|
| • Polychlorinated Biphenyl | (PCB) – logatálmi (flame retardant) |
| • Dichlorodiphenyltrichloroethane | (DDT) – týningarevni |
| • Polybromiated Diphenyl Ethers | (PBDE) – logatálmi |
| • Perfluorinated Alkylated Substances | (PFAS) – yvirflatuvirki (surfactant) |



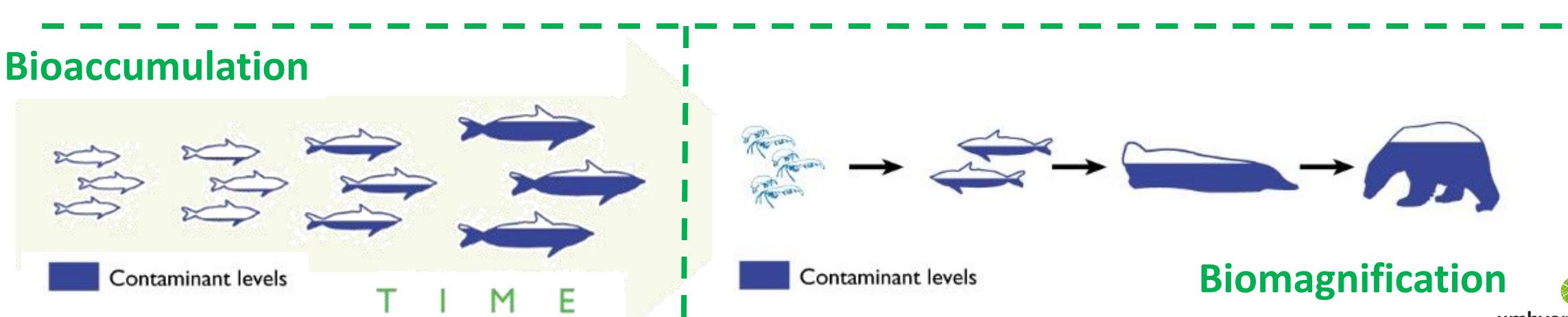
Kyksilvur (Hg)

- Metal
- Finst í ymiskum evnafrøðiligum formum
 - metalformi: Hg^0
 - Flótandi við rúmhita, sera loftfimt, dominerandi formur í luft
 - Ólívrunnið: Hg_2^{2+} , Hg^{2+} ,
 - Fremleiðsluídnaði t.d. battaríum, soppa- og bakteriutýnarum
 - Lívrunni: methylkyksilvur (MeHg): CH_3Hg
 - Gjört av bakterium, vanligasti formur í fóðiketuni – serliga í sjómati
- Eitrandi
 - Kann viðföra skaðar á nervalagið
 - Kann ávirka heilamenningina –serliga hjá smáum börnum



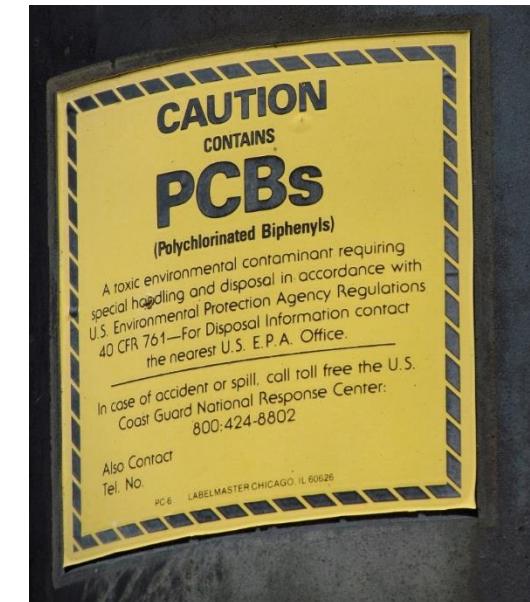
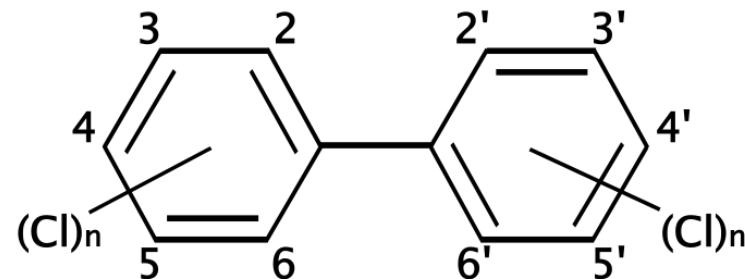
Persistent Organic Pollutants (POPs)

- Lívrunnin evni (t.v.s kolevnisgrundað), hava serligar fysiskar og evnafrøðiligar eginleikar sum gera at, tá latin út í umhvørvi, verða tey:
 - Niðurbrotin seint
 - Hava stóra útbreiðsla – flytast um stór øki
 - Hópast upp í djórum og við føðiketuni
 - fitiloysilig
 - Hava skaðilig árin



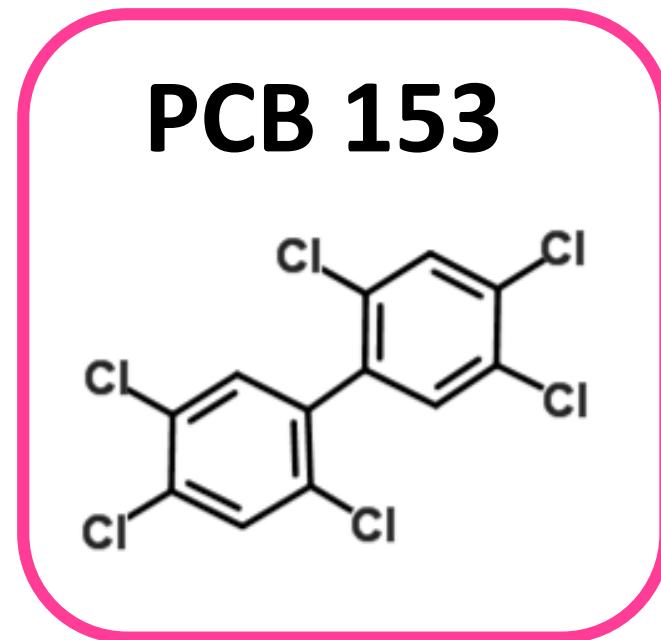
Polychlorinated biphenyls (PCB)

- 209 congeners
- Ymisk nýtsla
 - Logatálmari
 - Oljumáling
 - Isolerингsevni
 - El-lutum
 - Plastik
- Framleiðsla bannað í 1979 í USA



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Hyggja at í dag

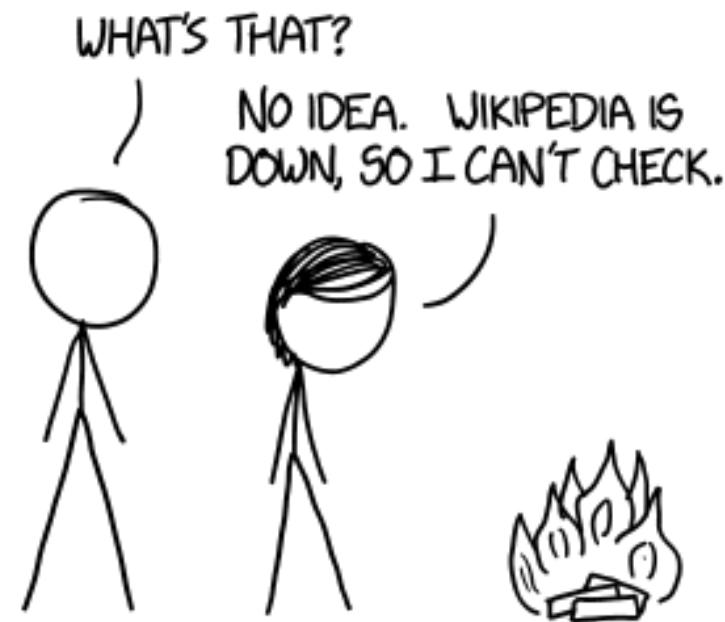


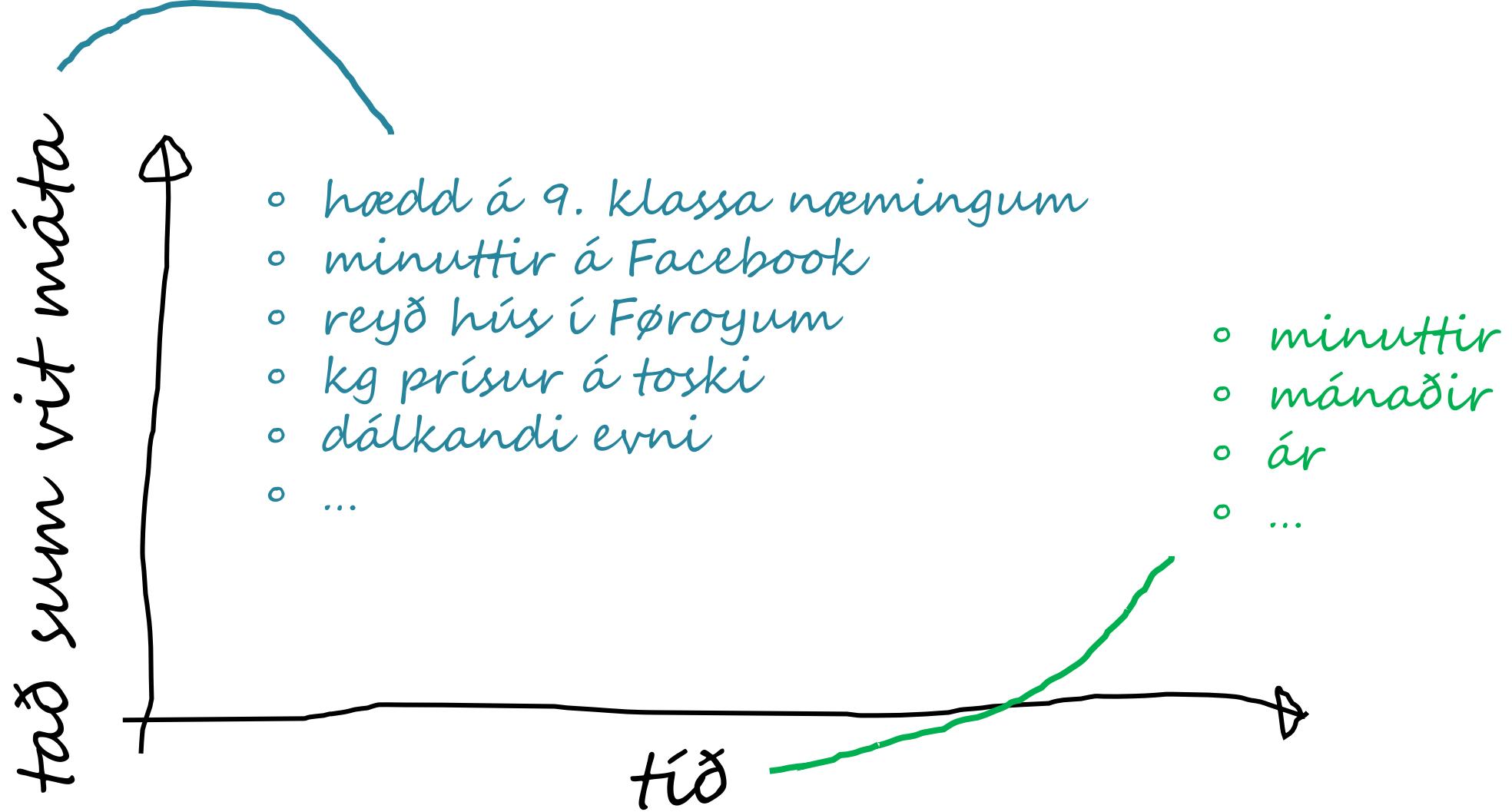
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- **Tíðarseriur**
- Samandráttur

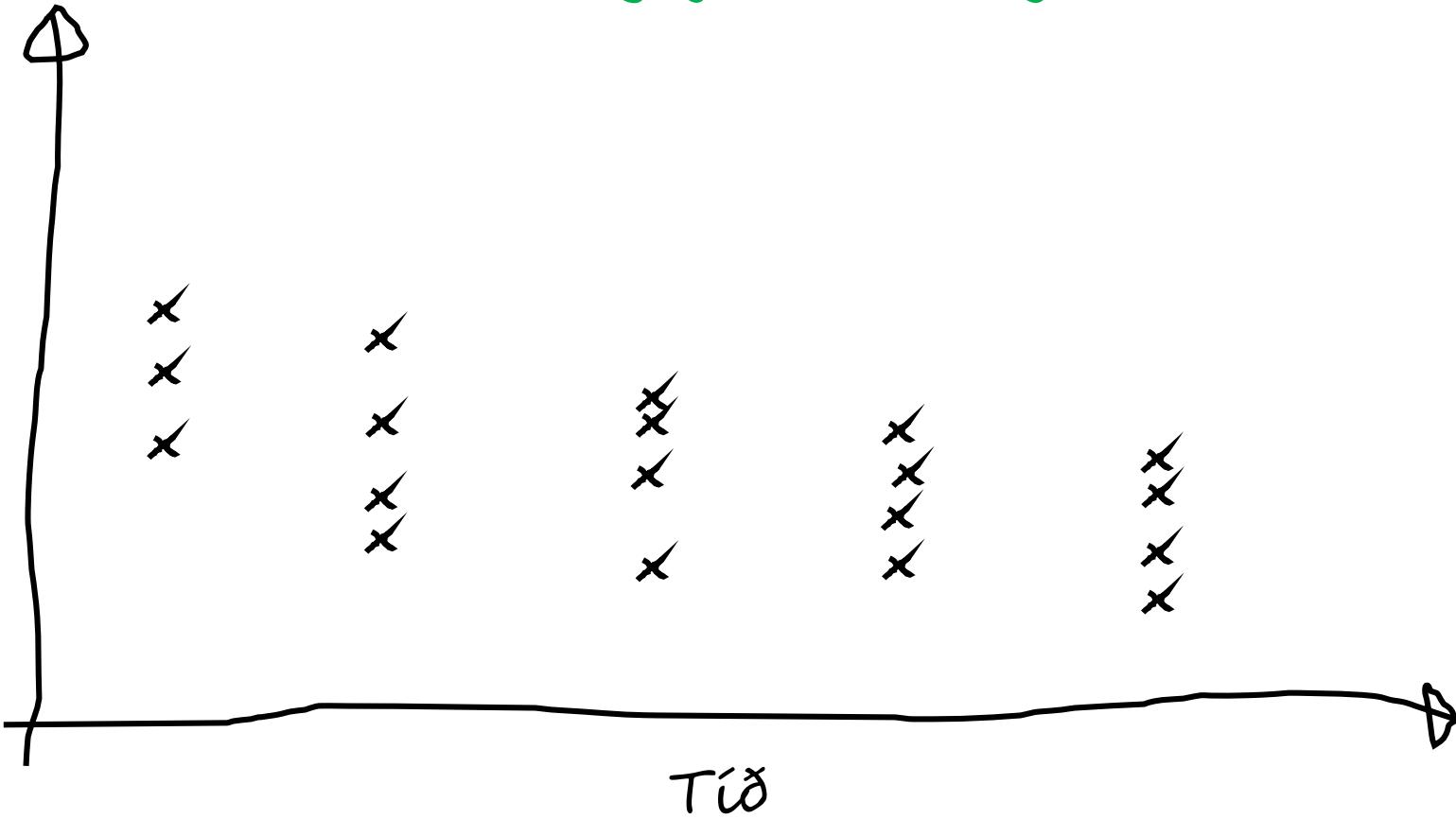


Tíðarseriur – hvað er tað?



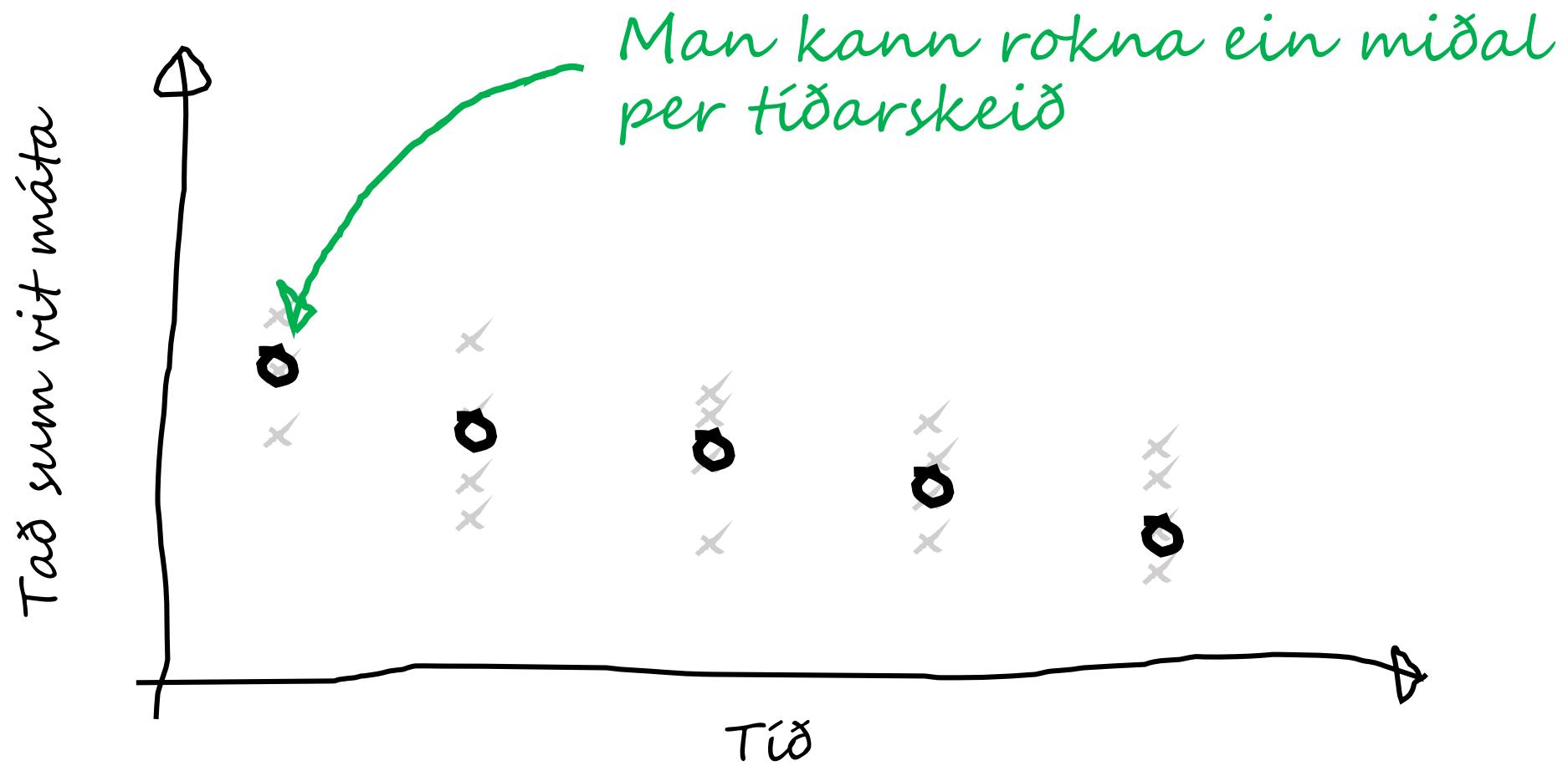


Tað sum vit máta

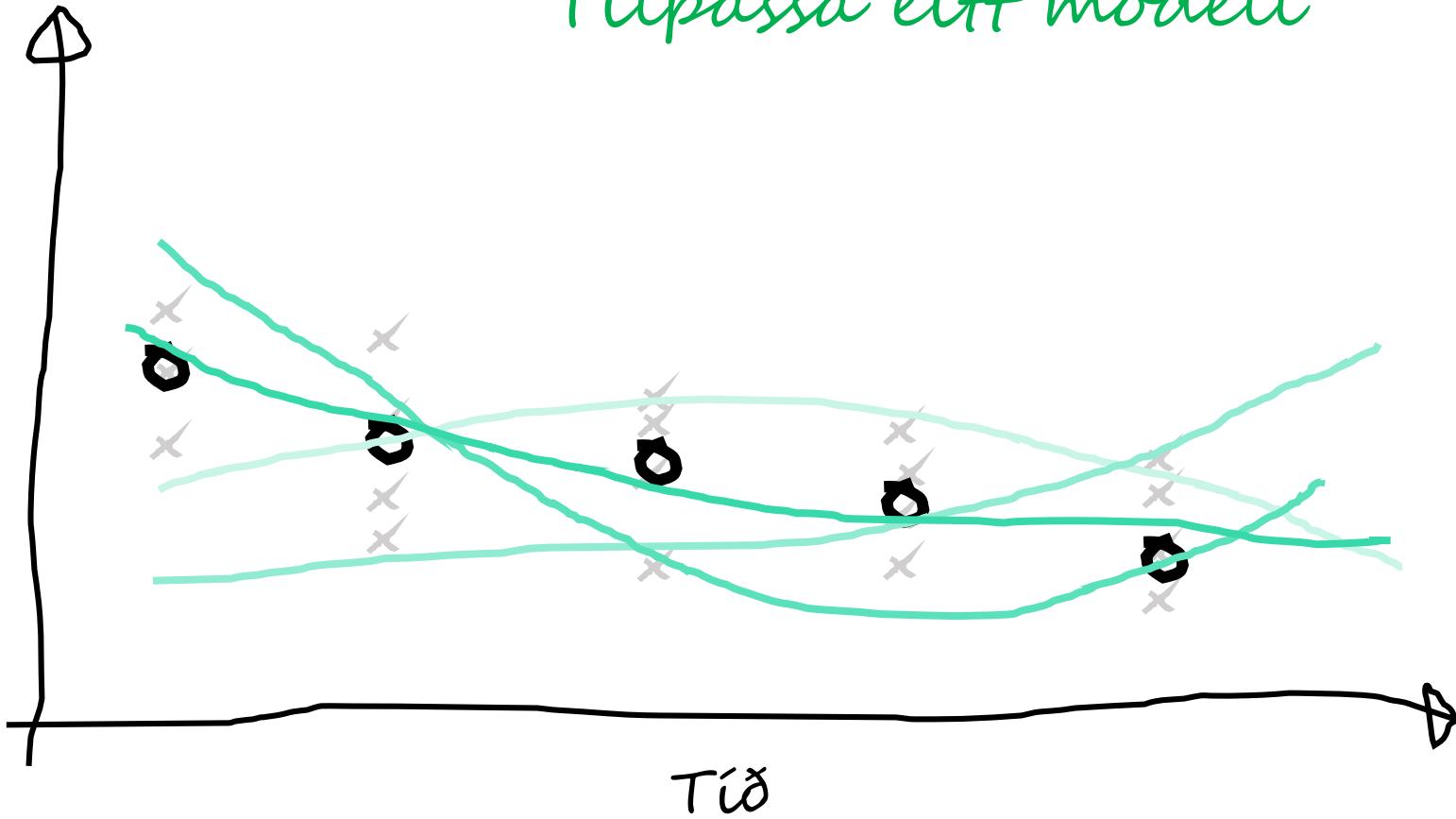


so byrja mátingarnar...

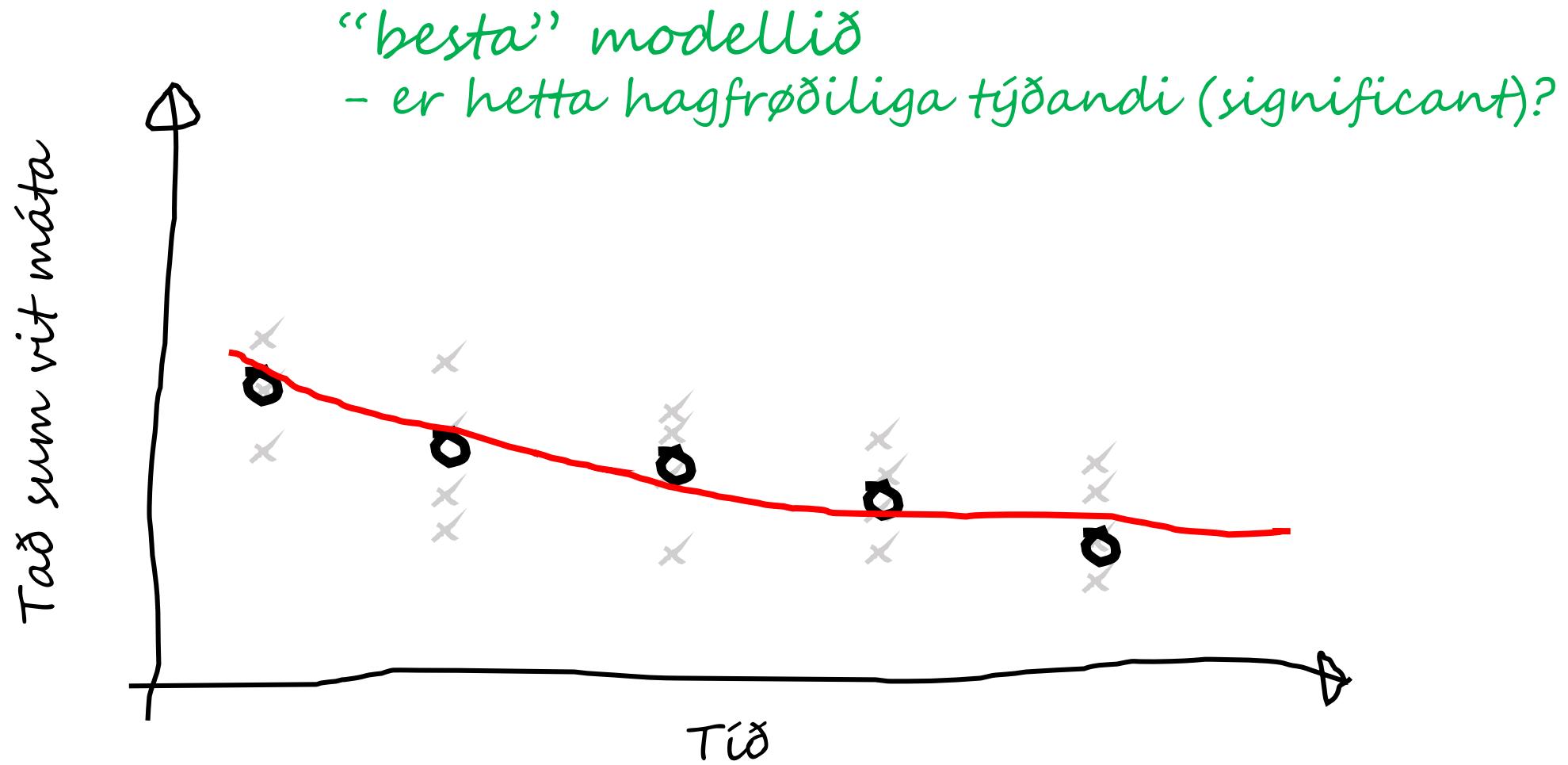




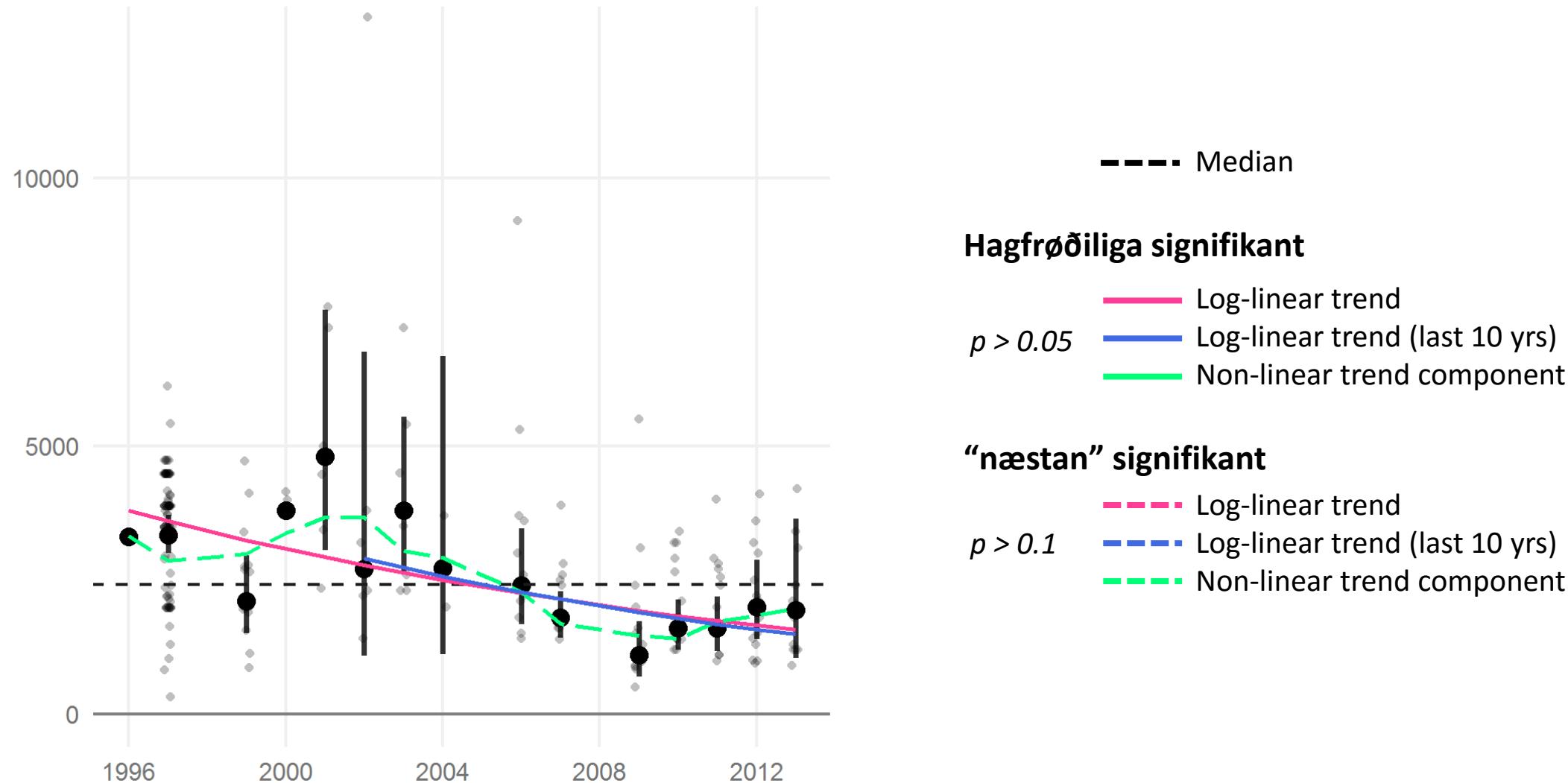
Tað sum vit máta

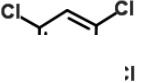


Tilpassa eitt modell

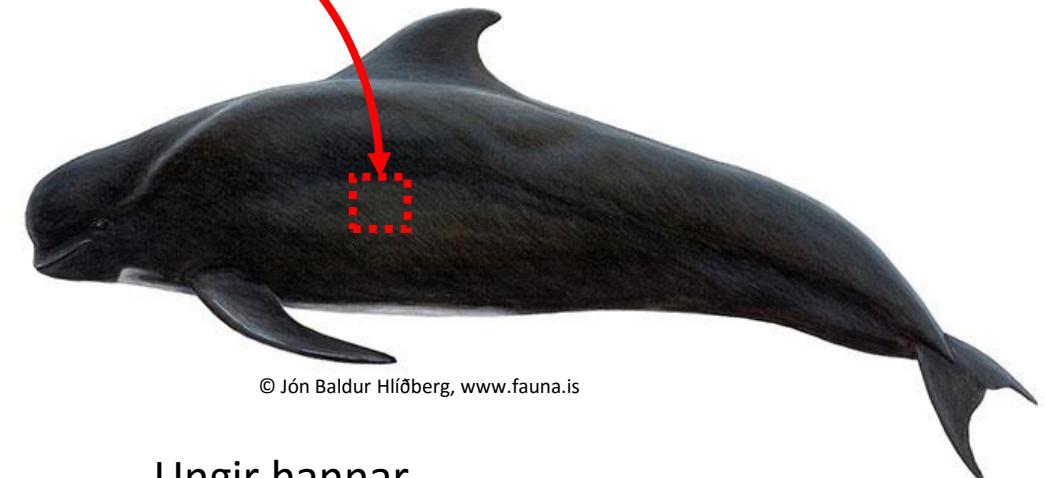


Okkara tíðarseriur:





Spik sýni



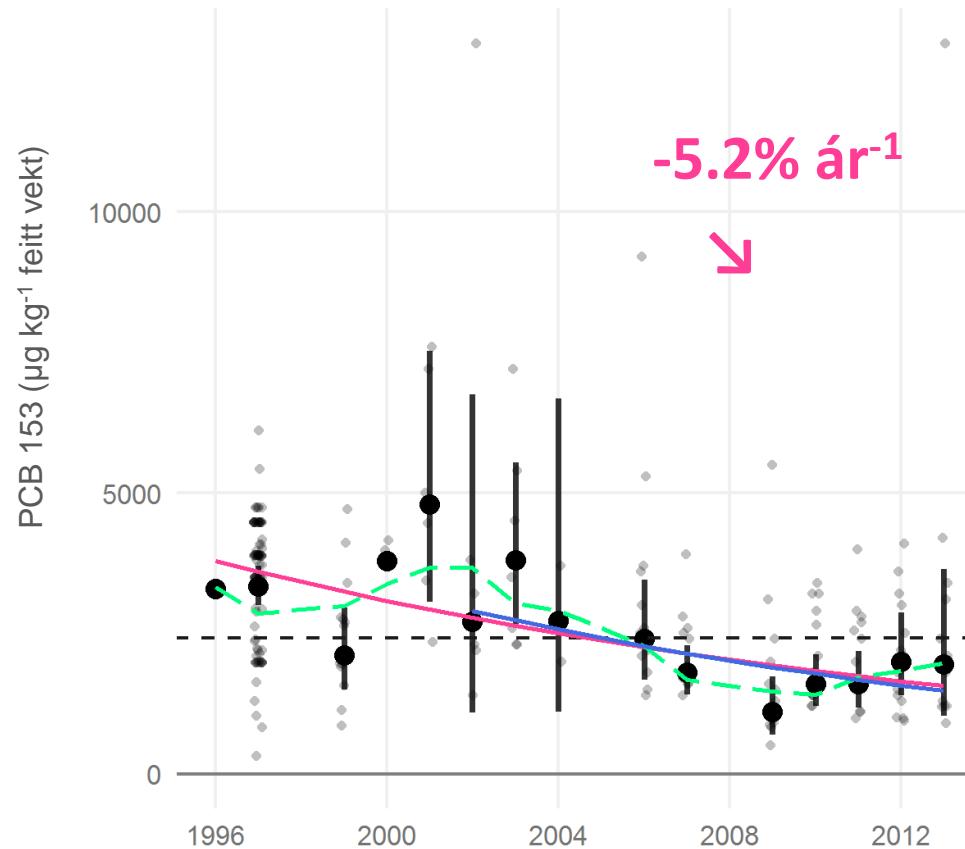
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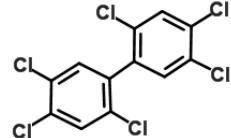
Ungir hannar
Longd < 495 cm



Grindahvalur (ungir hannar) - Spik

PCB 153





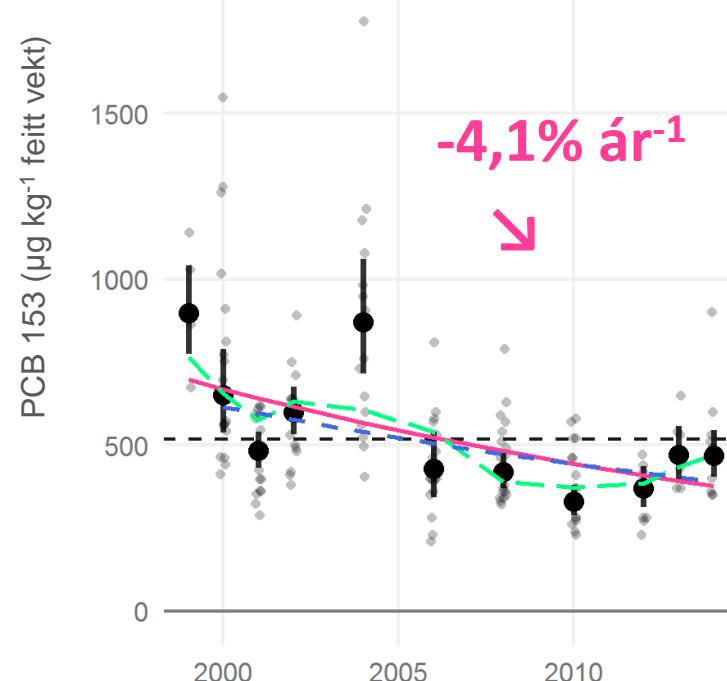
tómd



Homogenisera
“blenda”

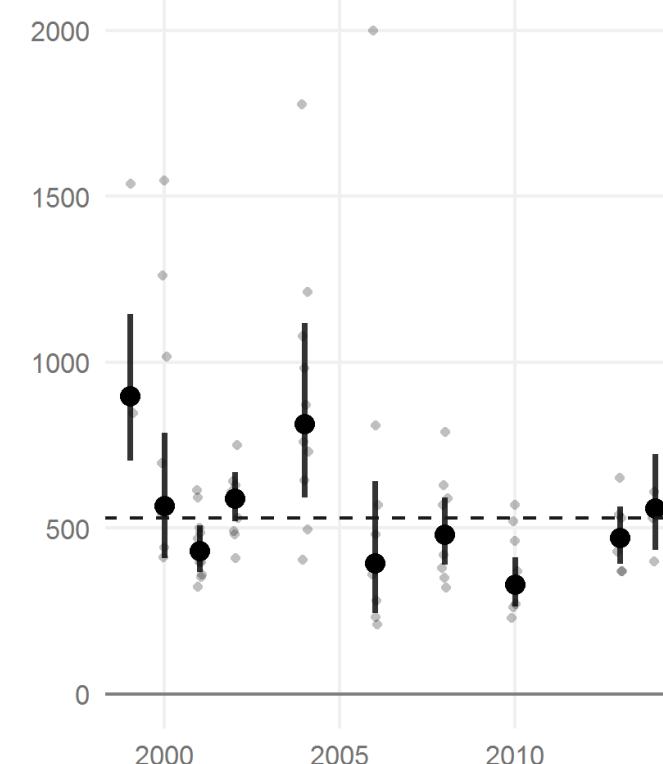
Teistaegg - øll

PCB 153



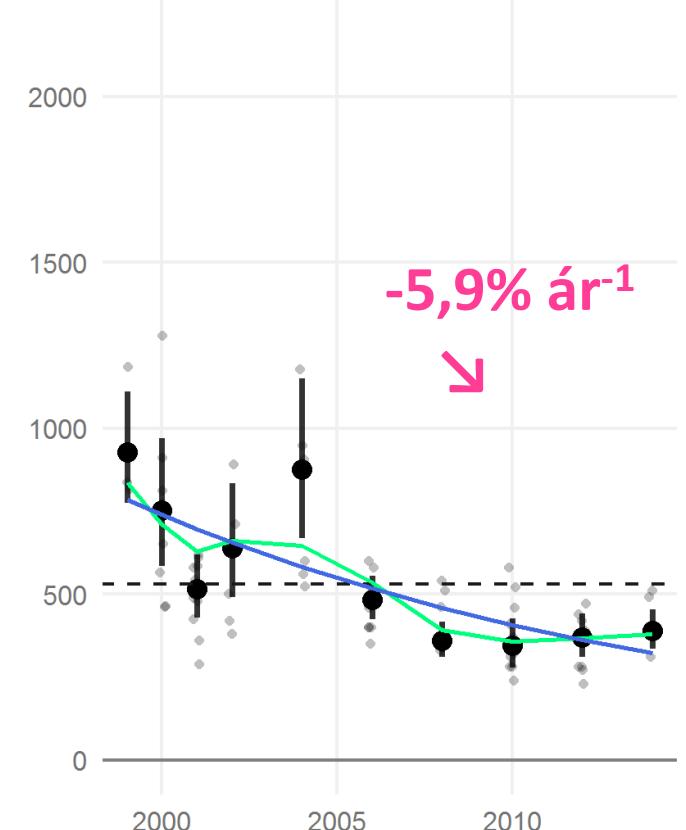
Teistaegg - Koltur

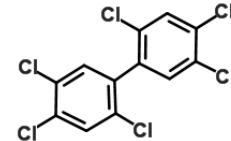
PCB 153



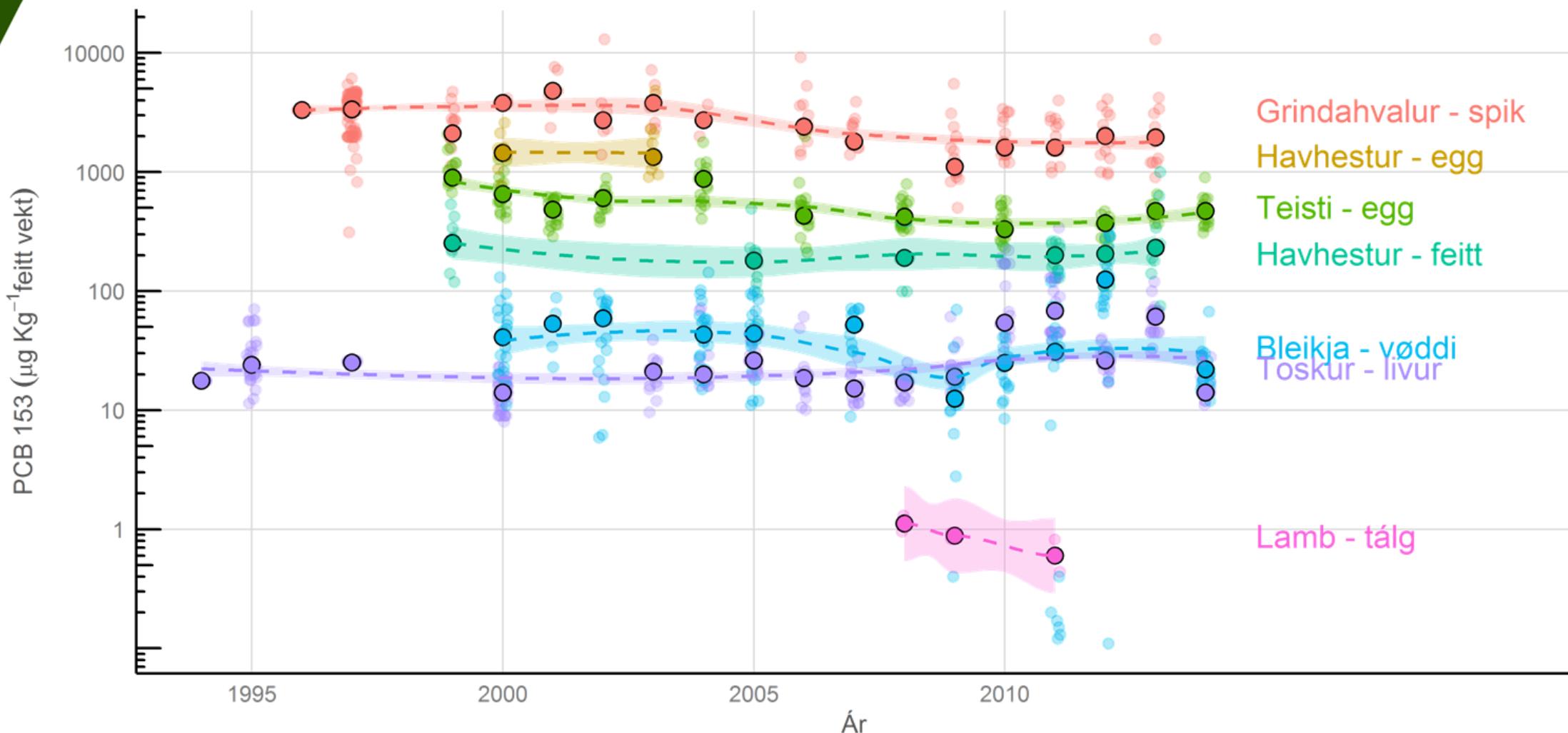
Teistaegg - Skúvoy

PCB 153





PCB 153 í ymsu djóraslögnum

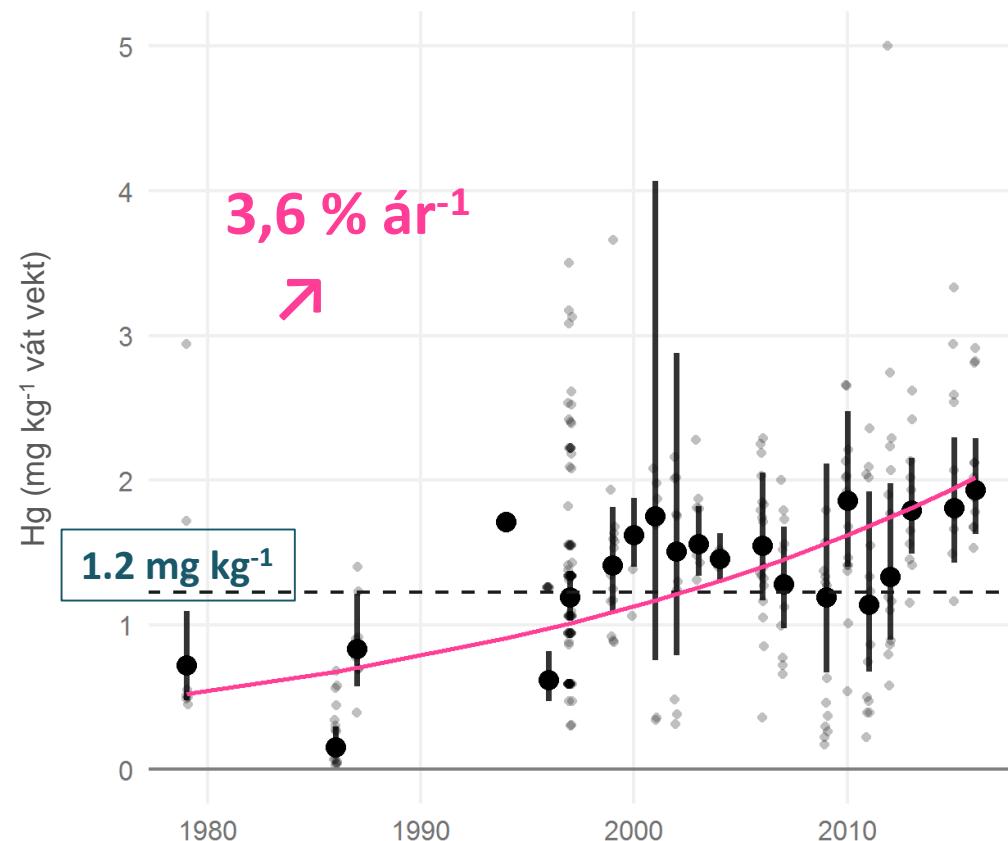




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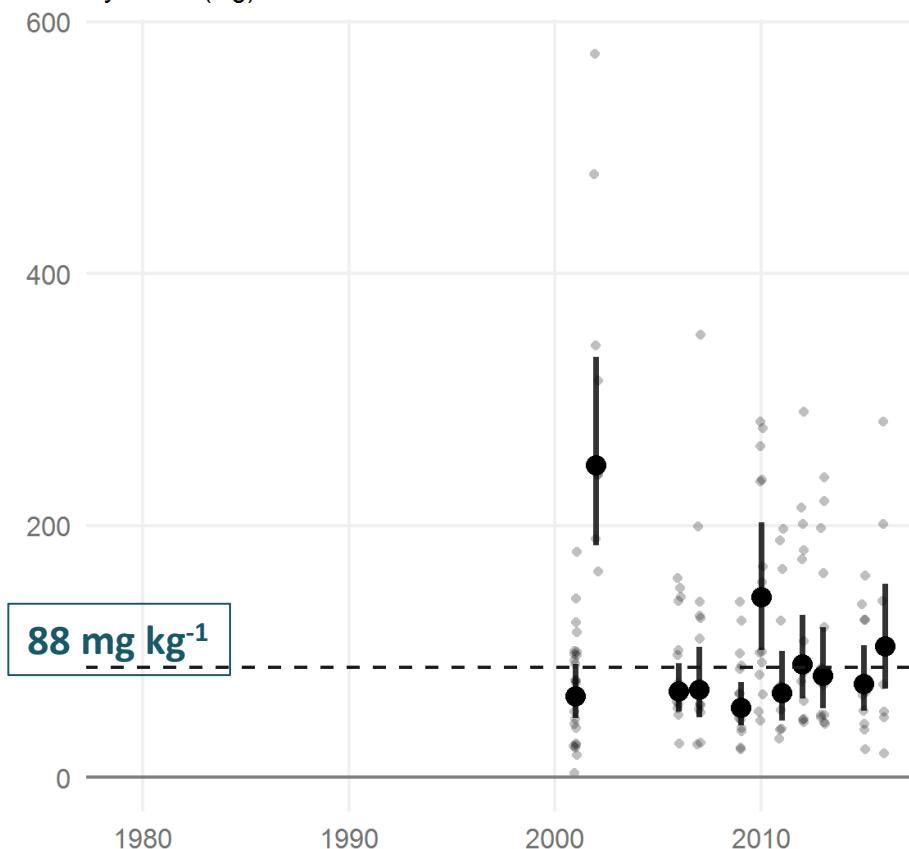
Grindahvalur (ungir hannar) - vøddi

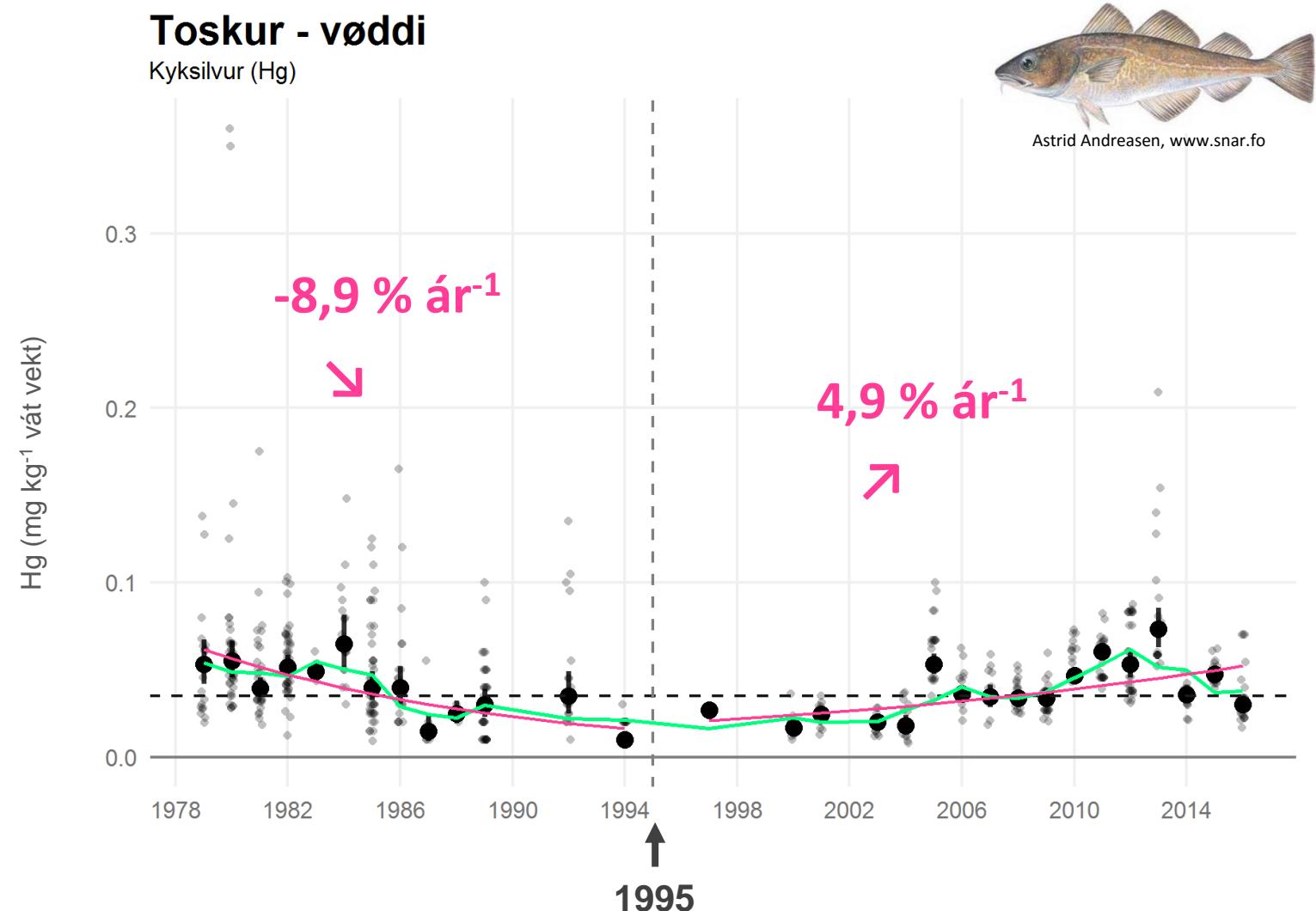
Kyksilvur (Hg)



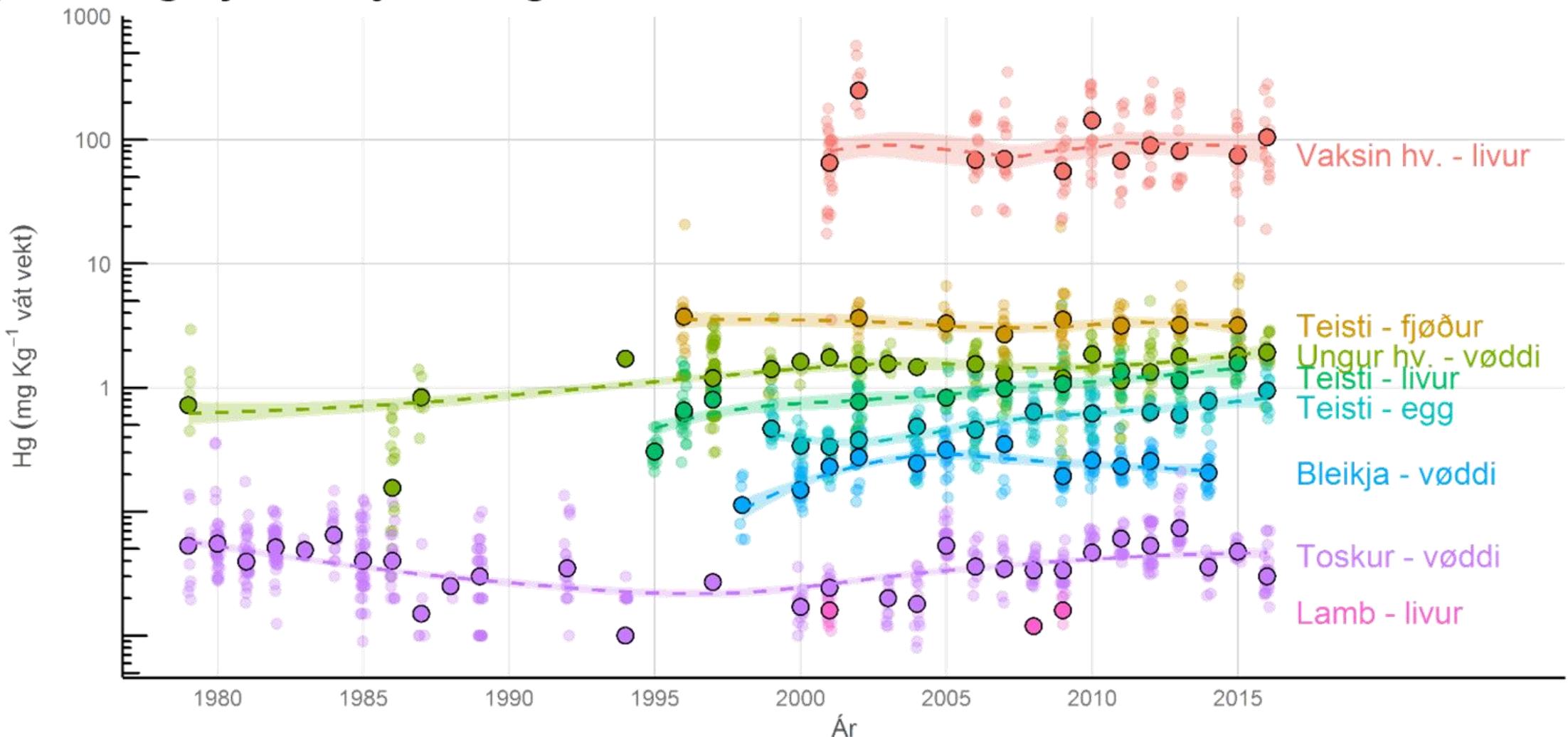
Grindahvalur (vaksnir) - livur

Kyksilvur (Hg)

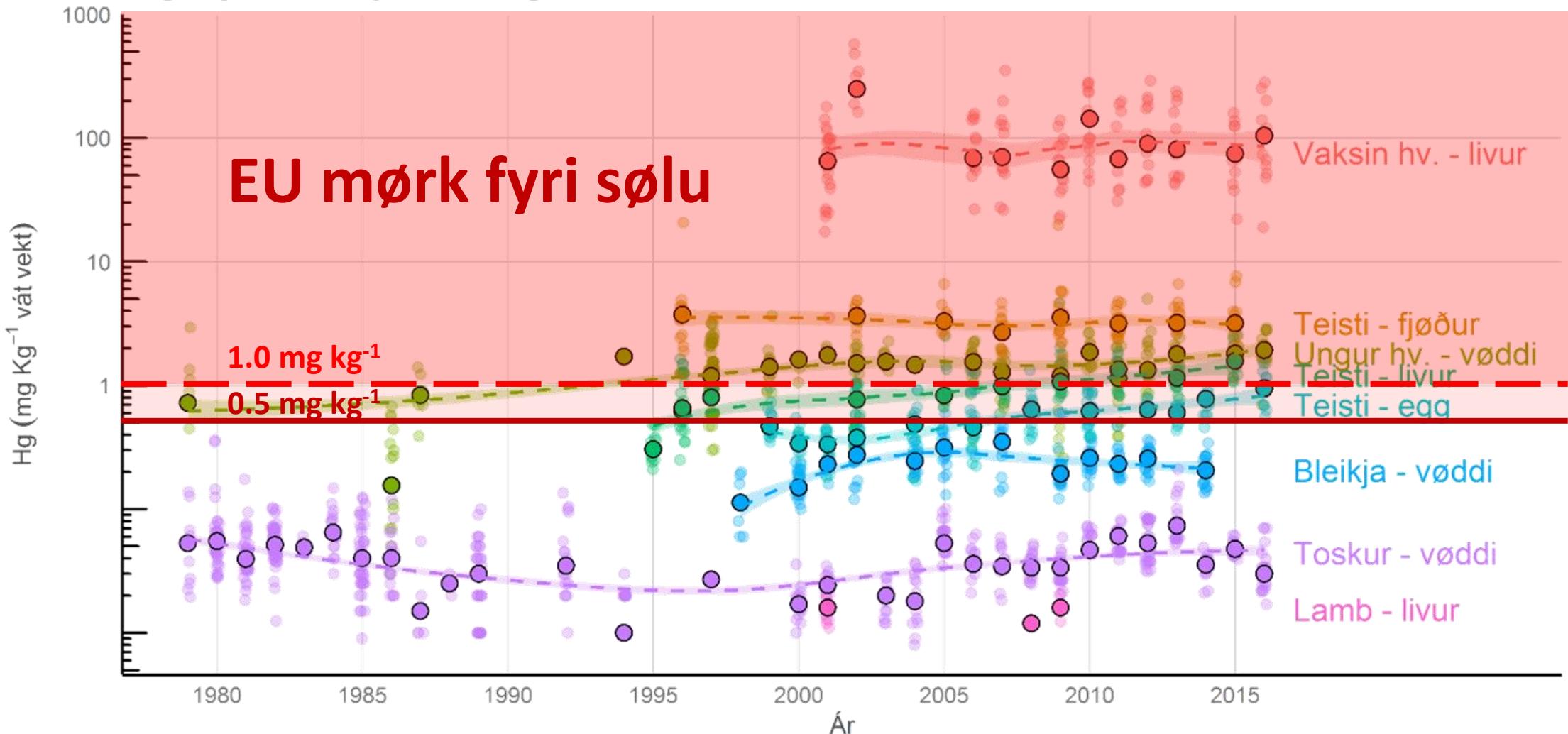




Hg í ymsu djóraslögnum



Hg í ymsu djóraslögnum



Samandráttur

- **PCB 153 tíðarseriurnar**

- ↘ í grindahvali og teistaeggum úr Skúvoy
- Einki trend ávist í toski ella bleikju
- AMAP assessment 2015
 - uml. 50 % av öllum PCB153 tíðarseriunum ↘
 - Meðan, eftir ár 2000 eru hetta uml. 25 %

- **Hg tíðarseriurnar**

- ↗ nøgd í grindahvala tvøsti (ungir hannar) og í teista eggum og livrum
- Í bleikju og toski var eitt non-linear trend ávist
- AMAP assessment 2011
 - uml. 16 % av Hg tíðarseriunum høvdu ↗
 - uml. 25 % høvdu non-linear trend



Takk fyri

Spurningar ???

