

# Polycykliske aromatiske hydrocarboner i marin biota fra Grønland

M. Pécseli<sup>1</sup>, G. Pritzl<sup>1</sup>, J. Carstensen<sup>2</sup> and J. Tang Christensen<sup>3</sup>

<sup>1</sup>Afd. for Miljøkemi og Mikrobiologi, DMU, <sup>2</sup>Afd. for Marin Økologi, DMU

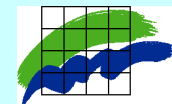
<sup>3</sup>Afd. for Marin Økologi, Aarhus Universitet

- Den  
halo  
Envi

- Proj  
Asse



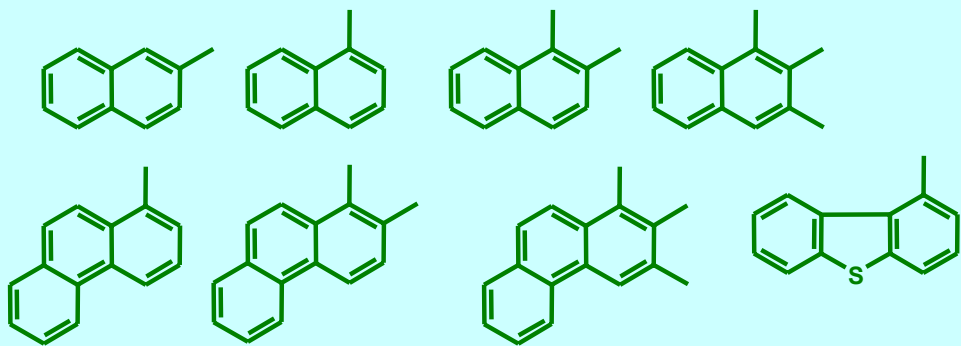
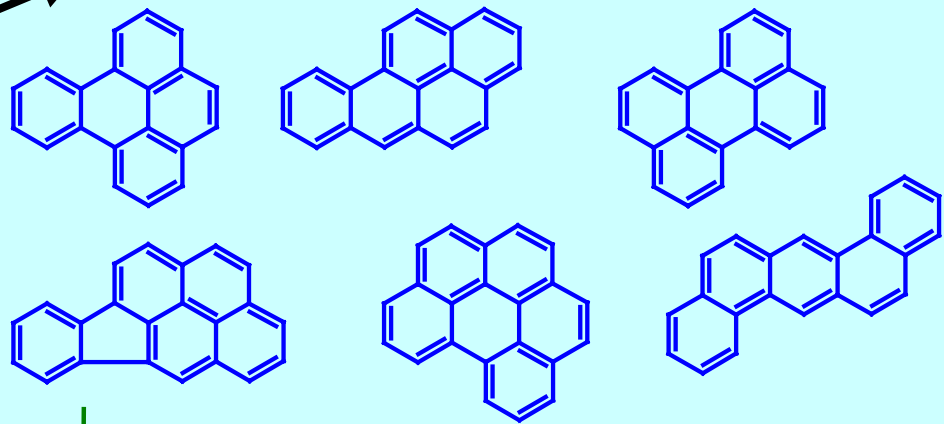
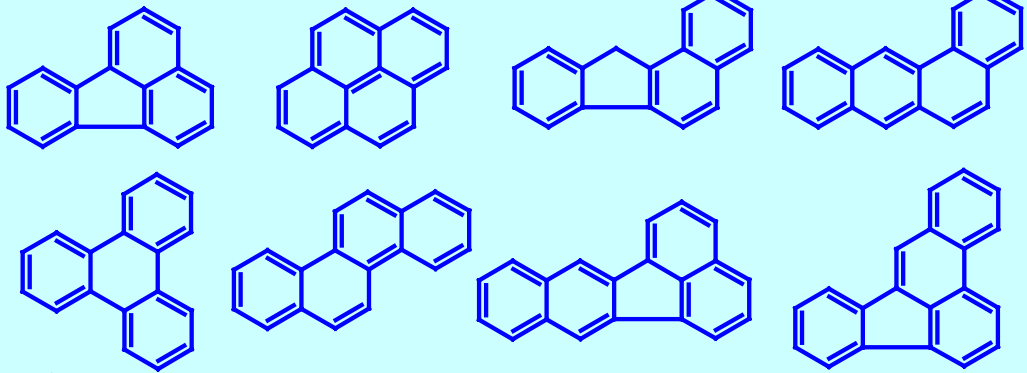
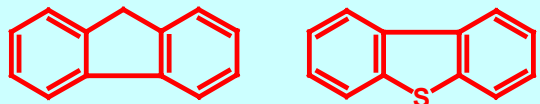
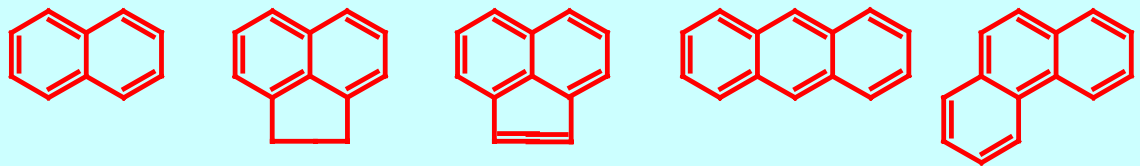
g and



- Forbindelser med høj carcinogen, mutagen og reproduktions skadelige effekter og/eller høj akut toxicitet
  - 30 PAHer
  - blødgørere og detergenter (DBP, DEHP, Bisphenol A og nonylphenol)

## **Formål**

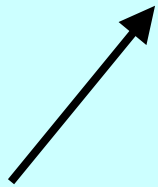
- Baggrunds niveauer
- Skelne mellem lokal vs. langdistance forurening
- Tidsserier for nøgle-arter og prøvetyper

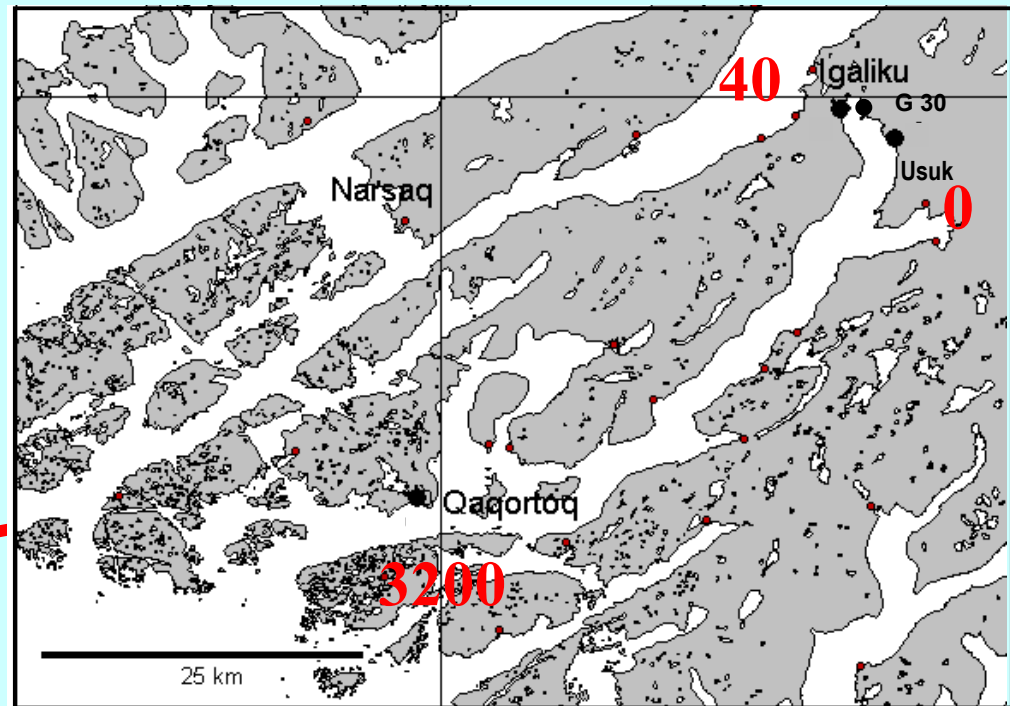
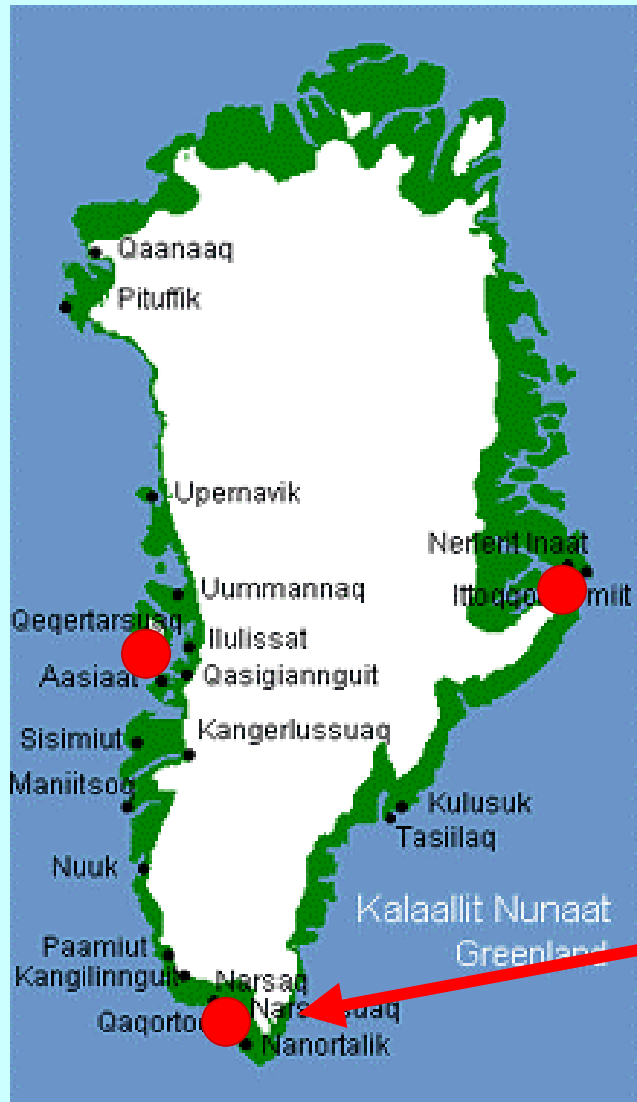


Petrogen

Pyrogen

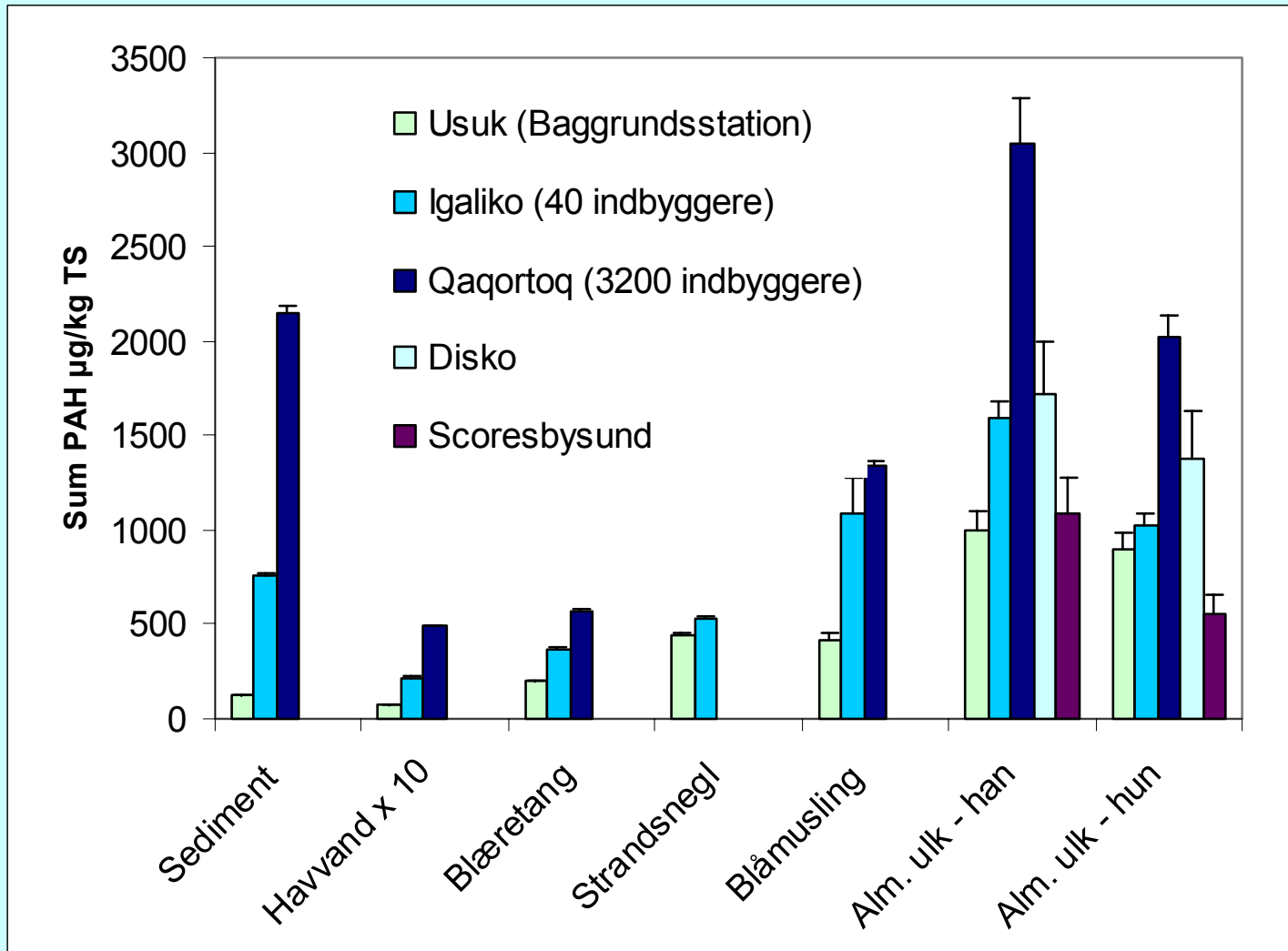
Biogen



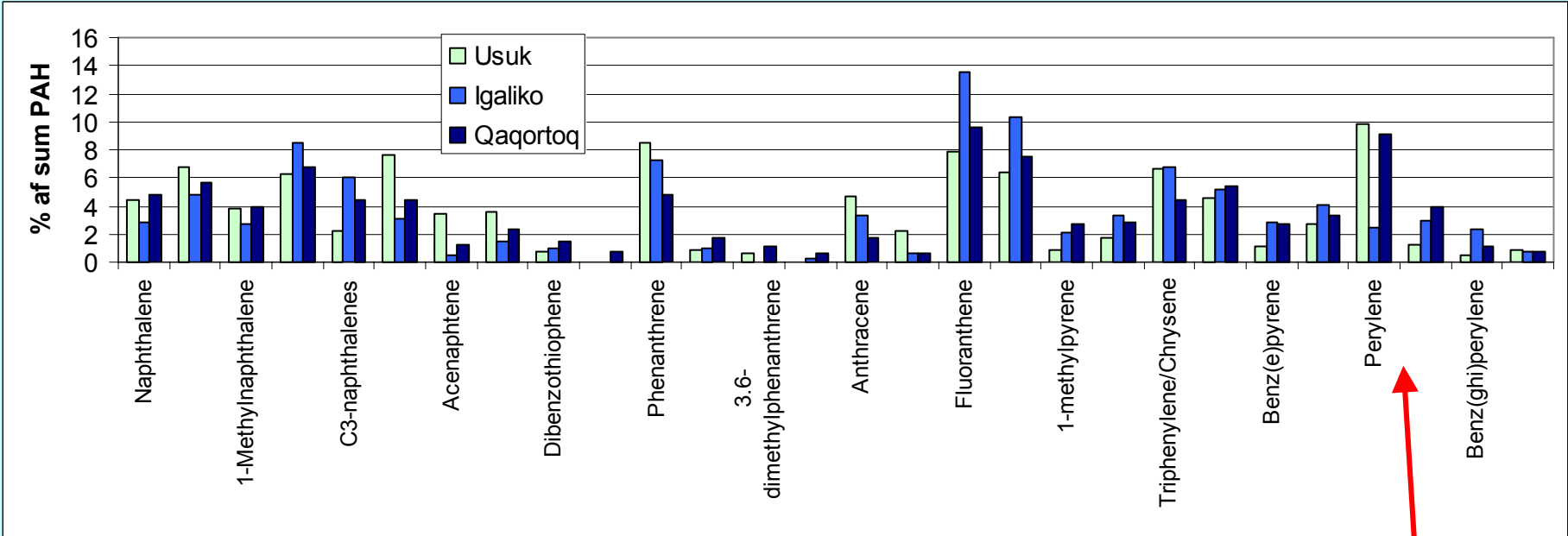




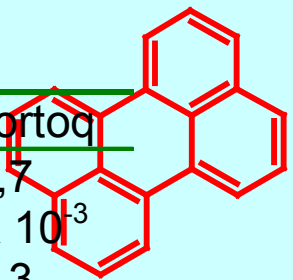
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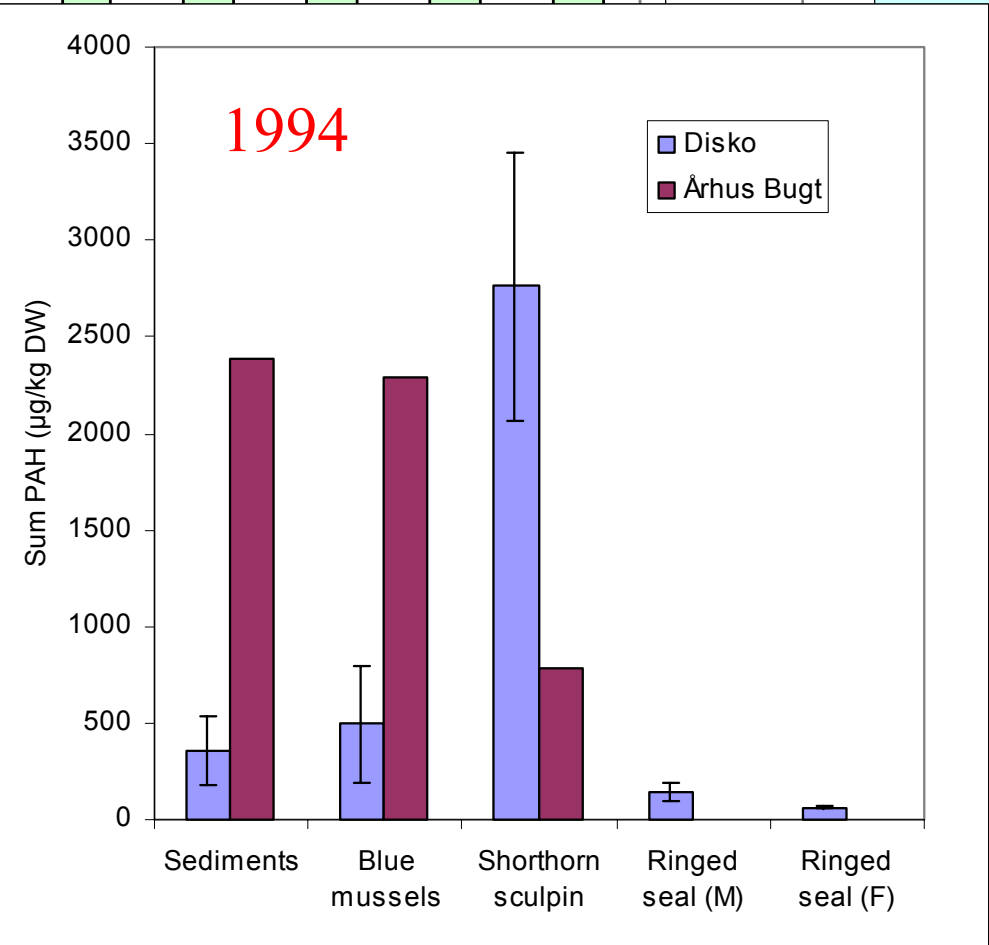
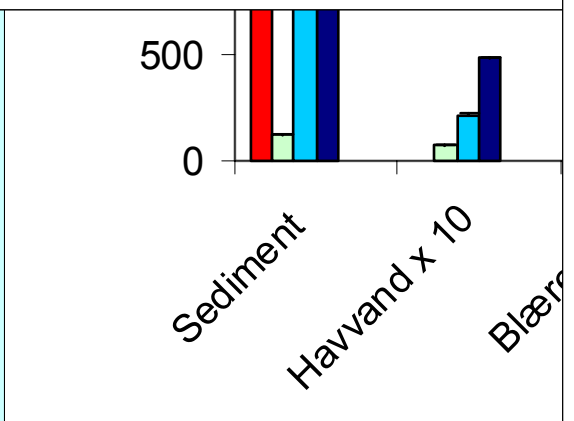
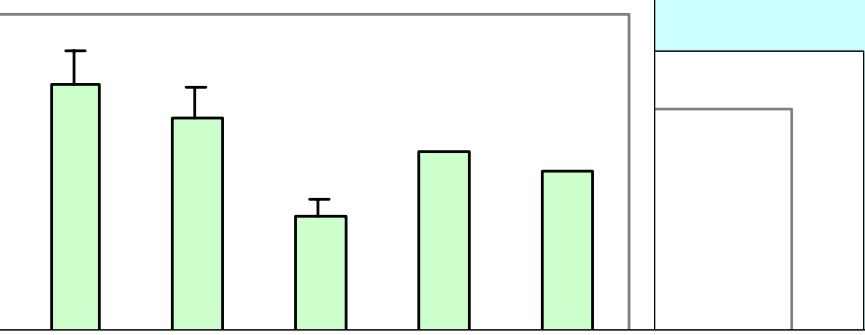
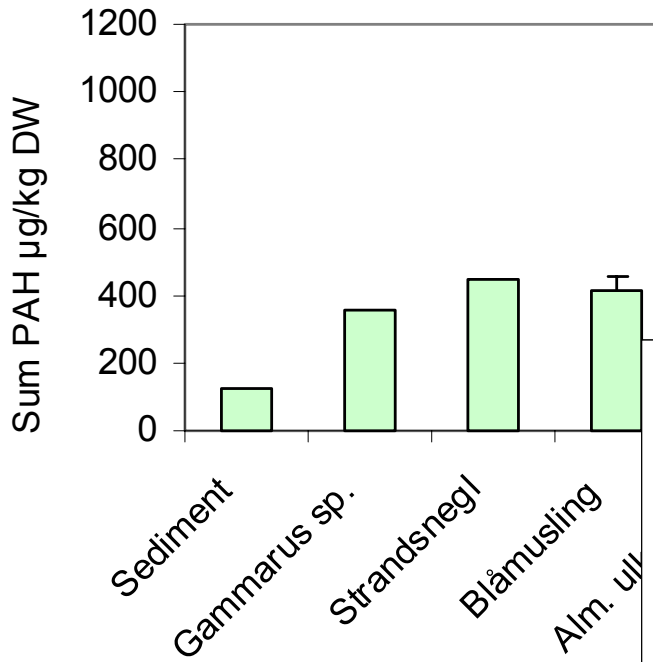


# Kilder



lette/tunge	Usuk		Igaliko		Qaqortoq	
	Usuk	Igaliko	Usuk	Igaliko	Usuk	Igaliko
Sediment	0,79	0,35	1,8	0,40	2,2	2,7
Phenanthrene/Anthracene	1,40	1,62	$8 \times 10^{-3}$	2,30	$11 \times 10^{-3}$	$24 \times 10^{-3}$
Dibenzothiophenes/Sum PAH	1,40	1,47	0,2	1,93	0,3	0,3
1-methylpyrene/sum	1,42	1,47	0,2	1,93	0,3	0,3
Aim. ulk	1,42	1,47	0,2	1,93	0,3	0,3







## Konklusion

- De fundne koncentrationer er i samme størrelsesorden som de niveauer man finder i tempererede egne, fx. i de indre danske farvande.
  - Sammenligneligt input el. langsommere nedbrydning
- Lokale antropogene kilder ser ud til at være af betydning.
- PAH koncentrationen i fisk var højere end koncentrationen i muslinger og snegle samlet samme sted.
  - Fisk udsat for højere eksponering?
  - Lavere nedbrydningsrate?

