Trace elements and organochlorines in sperm whales stranded on the coast of Schleswig Holstein in 2016

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16 sperm whales along the coasts of Schleswig Holstein

Necropsies & Sampling

Toxicological analyses of 12 carcasses:
• POPs (PCBs and DDTs) in adipose tissue
• Metals and trace elements (cadmium, selenium and mercury) in liver, kidney and muscle.

Results & comparison with sperm whales stranded in 1994/95

- 2016 sperm whales less contaminated in PCBs and DDTs than the ones stranded in winter 1994/95
- No difference is observed with regards to trace element concentrations in liver
- Average size of 1994/95 sperm whales = 14±1 m
- Average size of 2016 sperm whales = 11±1 m

Discussion & Conclusions

- The lower contaminant burden in 2016 sperm whales may be due to their younger age
- Contamination does not seem to be the main cause of death

In perspective:
A more integrative study on contamination profiles associating samples from a majority of the 30 sperm whales that stranded on European coasts in Germany, The Netherlands, the United Kingdom and France is in preparation.

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