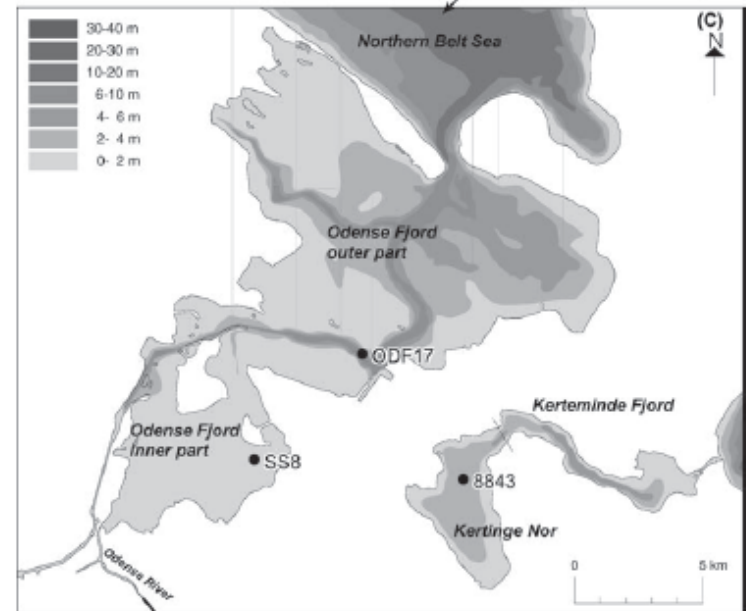
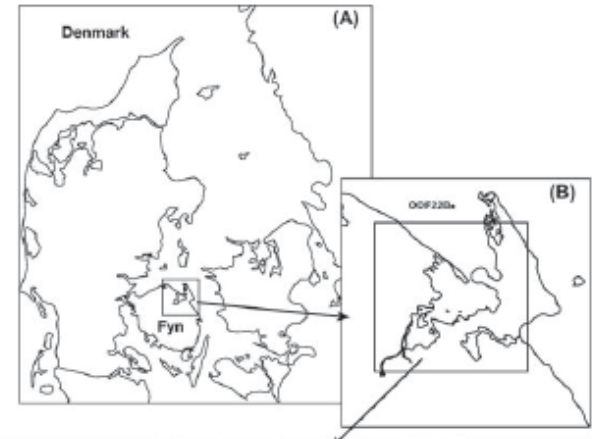




**Marsvinet –  
Danmarks egen hval**

**Magnus Wahlberg**

# Hvor er vi?



# Marine områder omkring Kerteminde



# Marsvinet i Danmark



# Danske sæler



Two dolphins are shown swimming in dark water. The dolphin in the upper part of the frame is in profile, facing left, with its dorsal fin visible. The dolphin in the lower part is also in profile, facing left, and is slightly lower and further back. Both dolphins have a brownish-grey back and a lighter, yellowish-white belly. The background is a solid dark blue/black.

Sæler og hvaler er *havpattedyr*

*Hvad er specielt med pattedyrene?*

Sæler lever både på land og i vand



Hvalerne bruger al sin tid i vand





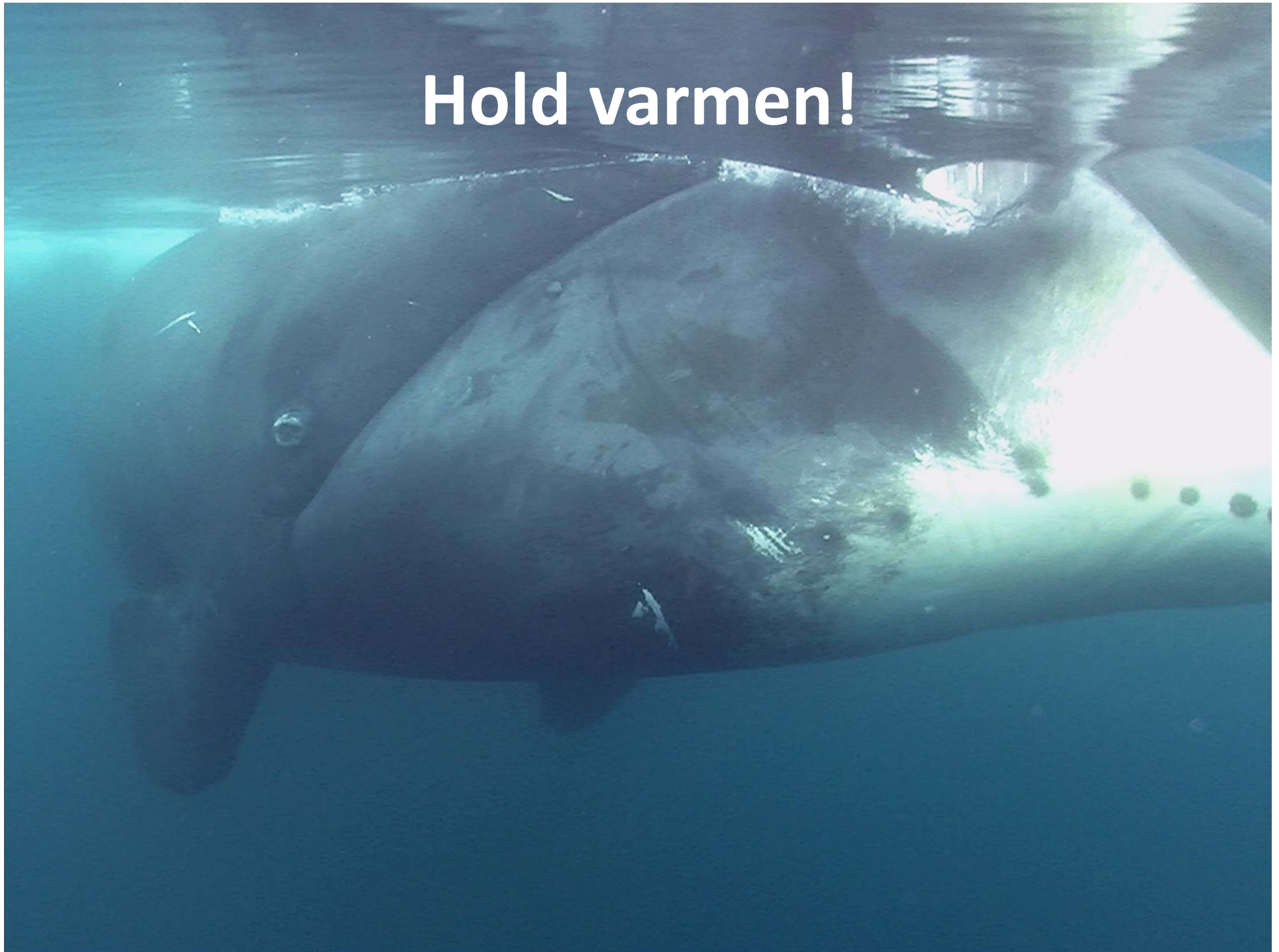


**Det findes mange slags hvaler...**



Hvalerne er *tilpassede*  
et liv i vand

**Hold varmen!**





Specielle sanser



Spættet sæl

# Pukkelhval



# Parring, Fødsel og Digivning i vand

An underwater photograph showing a large whale, likely a humpback whale, swimming in the upper half of the frame. Below it, a smaller whale calf is swimming. The water is dark, and light rays are visible filtering through the surface, creating a shimmering effect on the whales' bodies.

Freja og Frigg

# Dykning



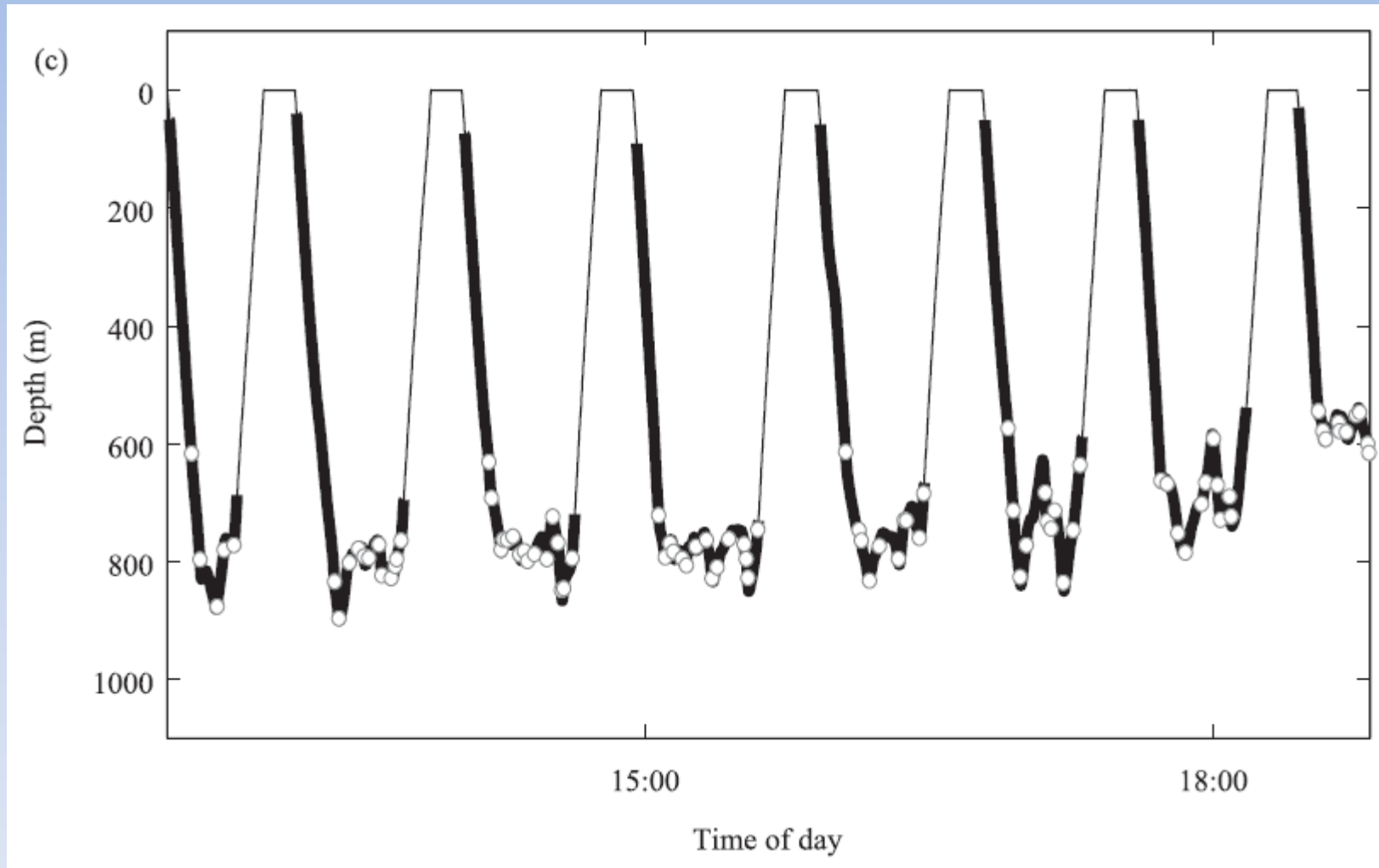
Nogle hvaler kan dykke dybere end 1 km  
og blive under vand længere end 1 time

- Modstå tryk
- Husholdning af ilt

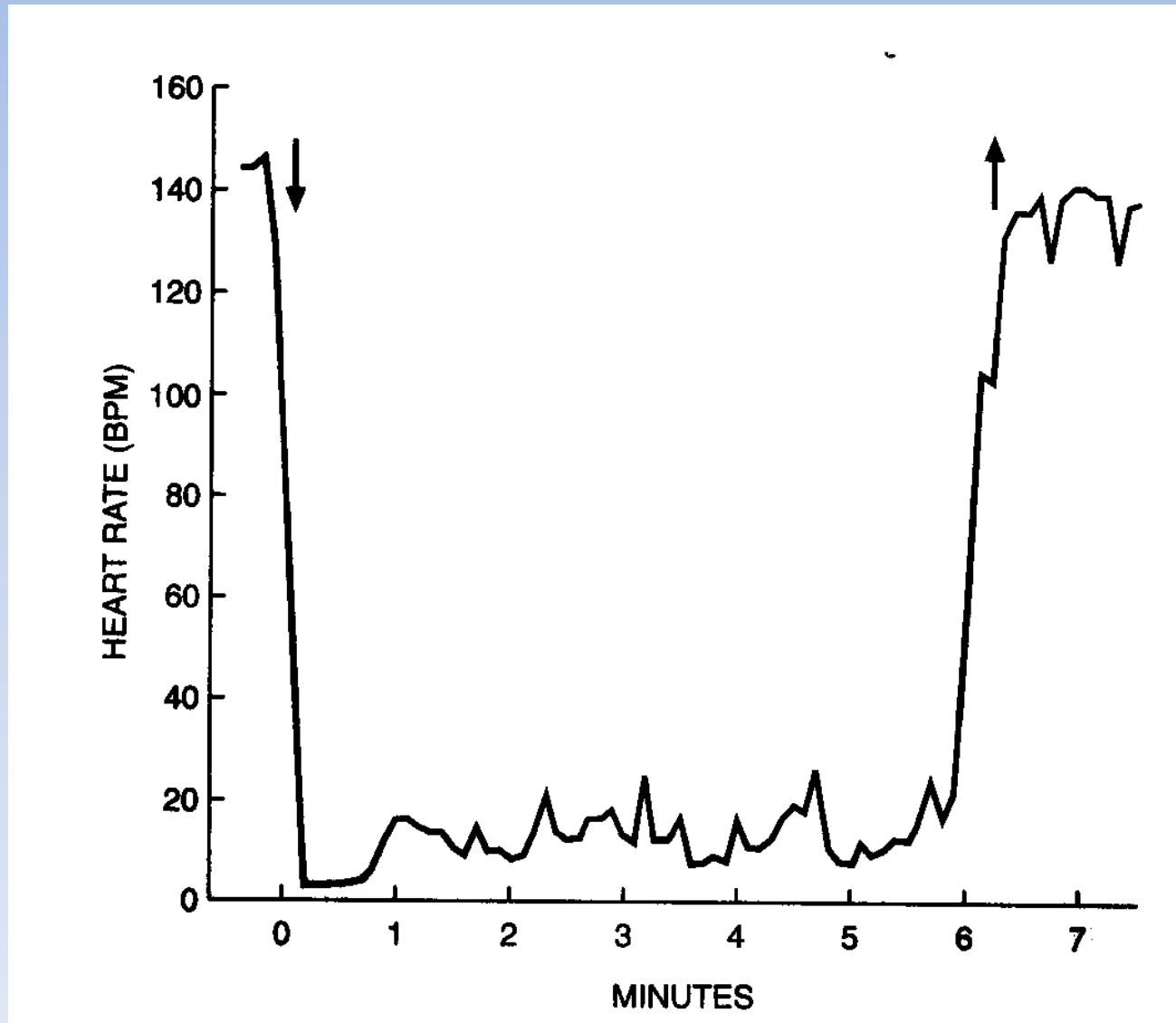


# Dykker-refleks

- Sænk hjerteraten
- Styr blodflødet



# Hjerterate under dyk, sæl



# EKG



# Måleudstyr

- Elektroder
- Forstærker of filter
- Analog-til-digital omvandling
- Computer
  
- Programmer: Labview, Matlab, Excel