

# The polar night

The black box becomes darker at higher latitudes!

Nautical polar night at latitudes  $>78^{\circ}\text{N}$ . Defined by the sun below  $12^{\circ}$  under the horizon. DARK!

Civil polar night at latitudes between  $72^{\circ}$  and  $78^{\circ}\text{N}$  (sun between  $6^{\circ}$  and  $12^{\circ}$  under the horizon). Darkish

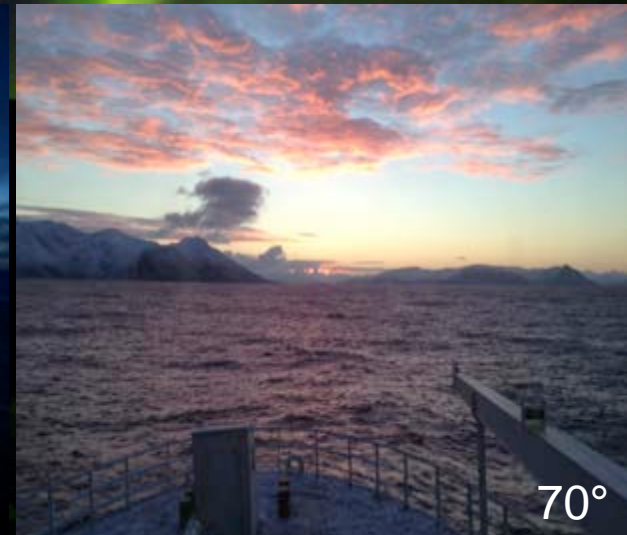
Civil twilight at latitudes between polar circle and  $72^{\circ}\text{N}$  (sun between  $0^{\circ}$  and  $6^{\circ}$  under the horizon). Dark?



81°



78°

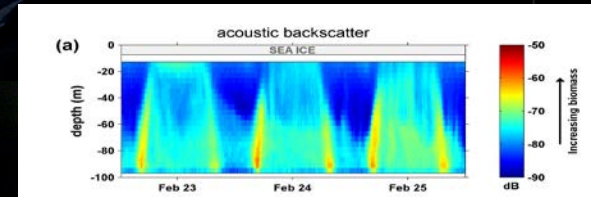
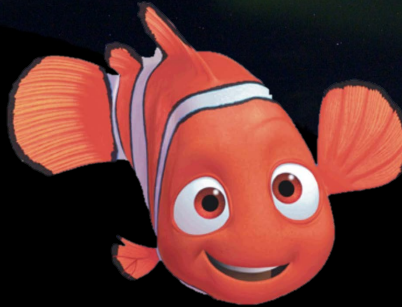
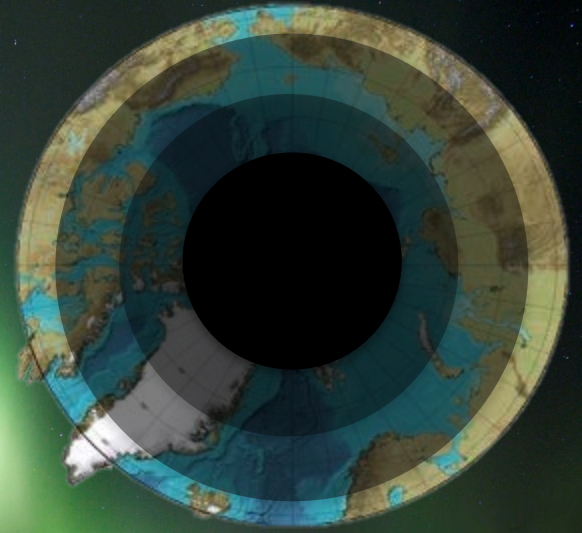


70°

All pictures taken at noon onboard RV *Helmer Hanssen* mid January 2013

# Status of knowledge?

The classical paradigm of a biological desert contradicted by a number of basic discoveries during the last years





# Developing autonomous observation platforms for the Arctic Ocean

