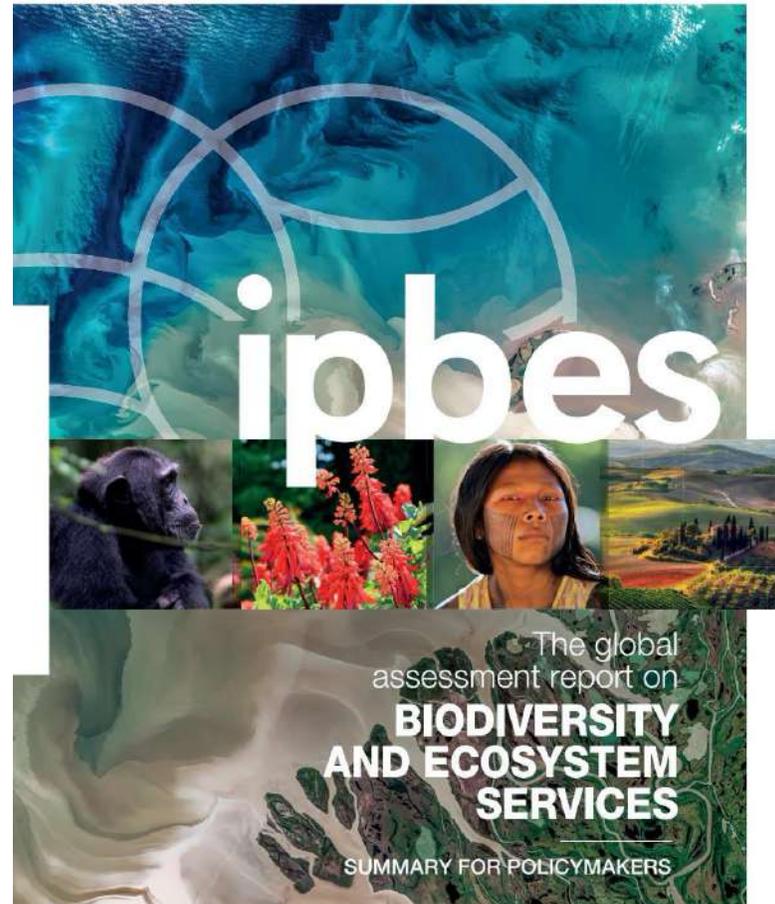


# BIODIVERSITY AT THE CROSSROADS – THREAT TO SUSTAINABILITY



# THE BALTIC – A SENSITIVE COASTAL SEA

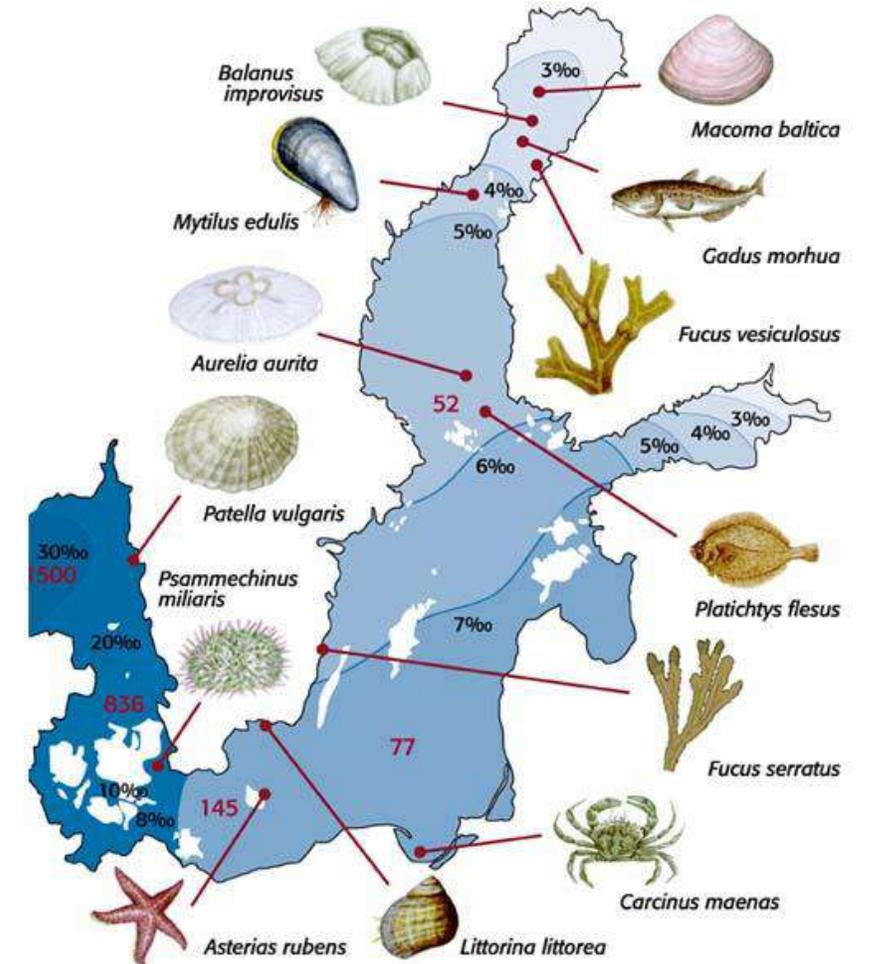




Photo: Mats Westerbom

**“BLUE CARBON”**

**– THE ROLE OF COASTAL BIODIVERSITY**



Photo: Mats Westerborn

An aerial photograph of a rocky island in the middle of a blue sea. On the island, there is a tall, grey stone lighthouse with a green lantern room. Next to it is a large, multi-story building with a green roof. A smaller red building is also visible. The water around the island is clear blue, but in the foreground and to the right, there are large, swirling patterns of green and yellowish-brown, indicating a massive algal bloom or eutrophication. A small white boat is visible near the island.

**EUTROPHICATION – THE LARGEST  
THREAT TO THE MARINE ECOSYSTEM**

Photo: Alf Norkko

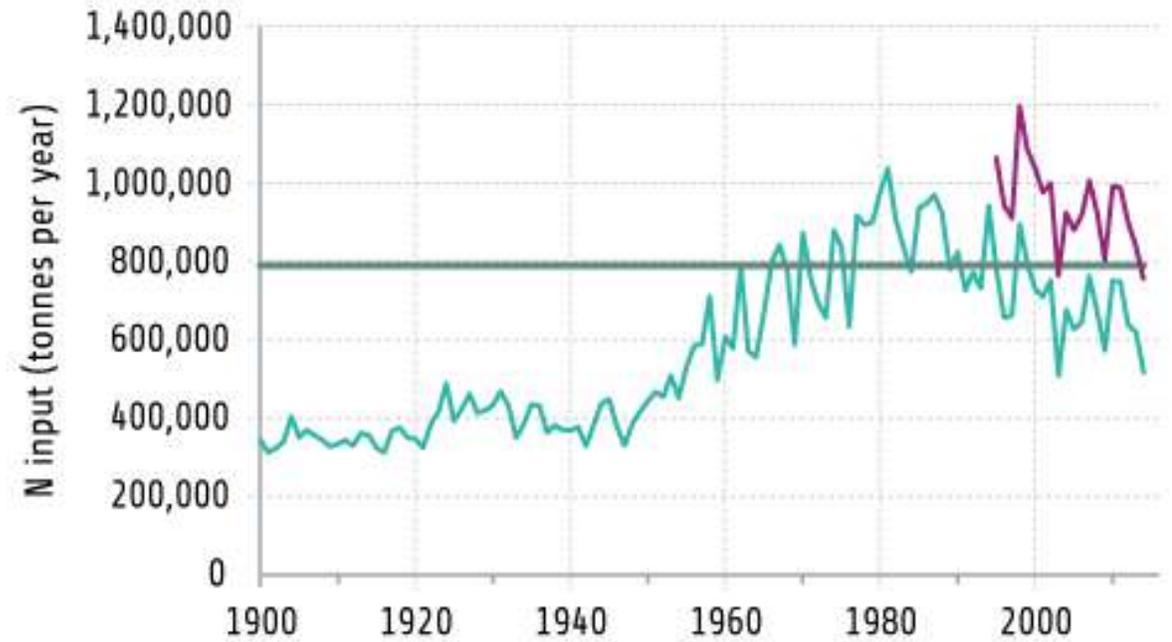


# DECADES OF MITIGATION EFFORTS - A SUCCESS STORY

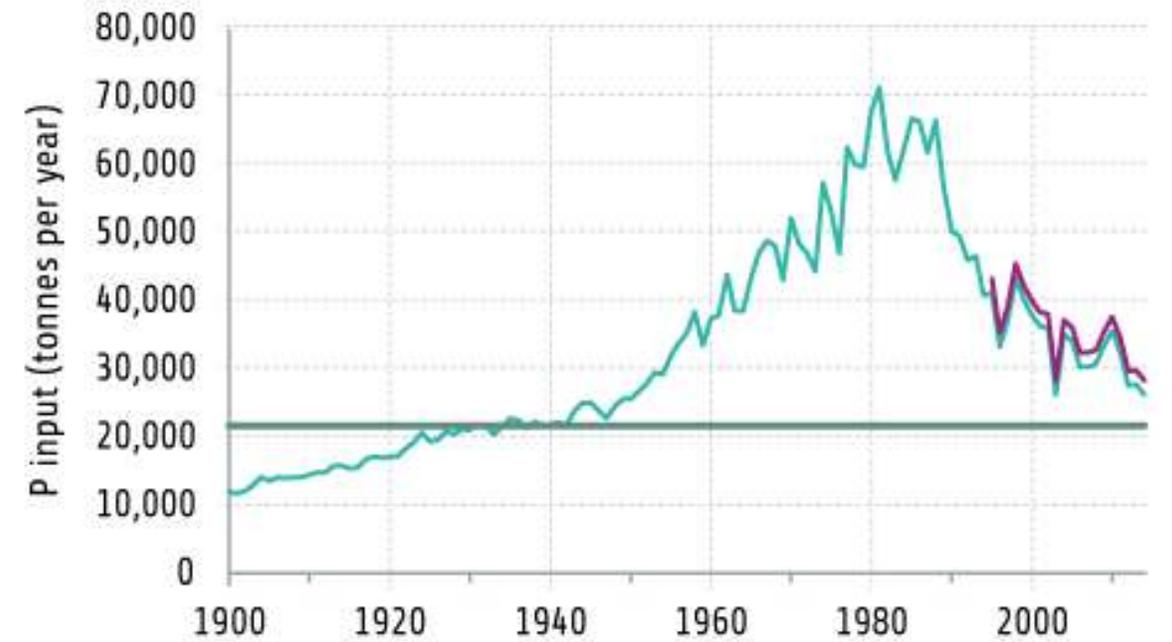


## Waterborne and total nutrient inputs

### Nitrogen



### Phosphorus

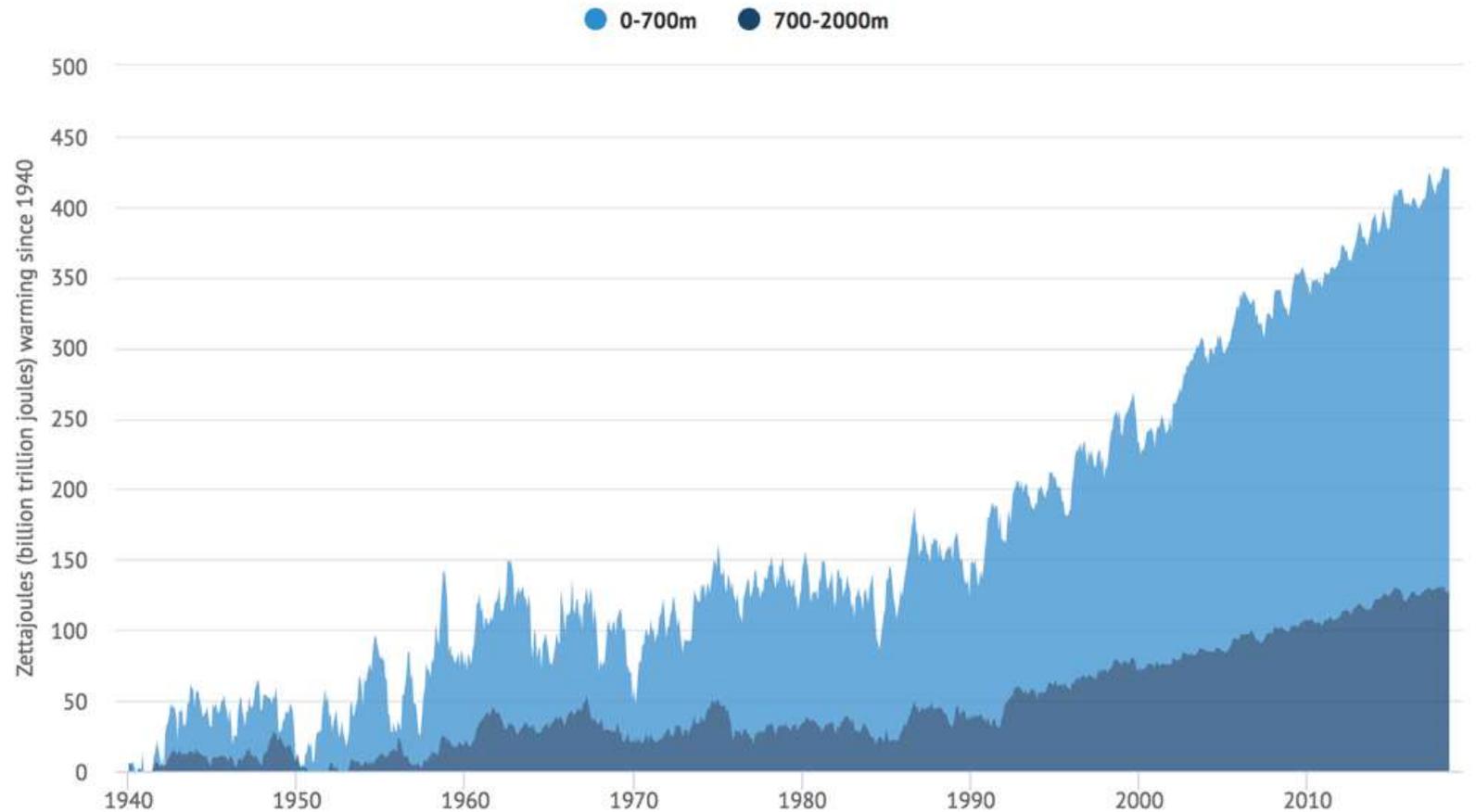
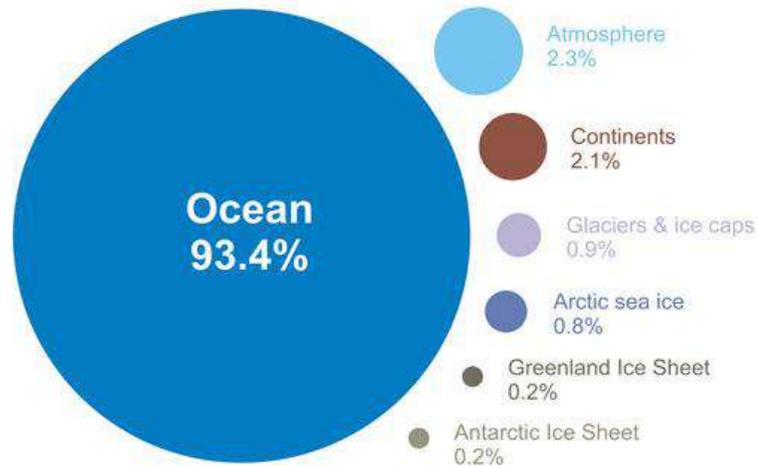


— Total input    — Waterborne input    — Maximum allowable input (MAI)



# OUR OCEANS ARE TAKING THE HEAT – BUFFERING >90% OF GLOBAL WARMING

Where is global warming going?





# Heatwaves across the country cooking mussels and buckling roads.

By Sophie Sherry and Christina Zdanowicz, CNN 7/1/2019



Mussels are frying to death along the shores of northern California.



© Jackie Sones A research coordinator estimates tens of thousands of mussels have died in the Bodega Bay area due to high area temperatures.

Jackie Sones, a research coordinator at Bodega Marine Reserve, has worked a Bodega Bay for 15 years and never she seen a sight like this before.



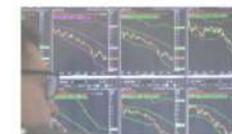
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*Photo: Mats Westerborg*



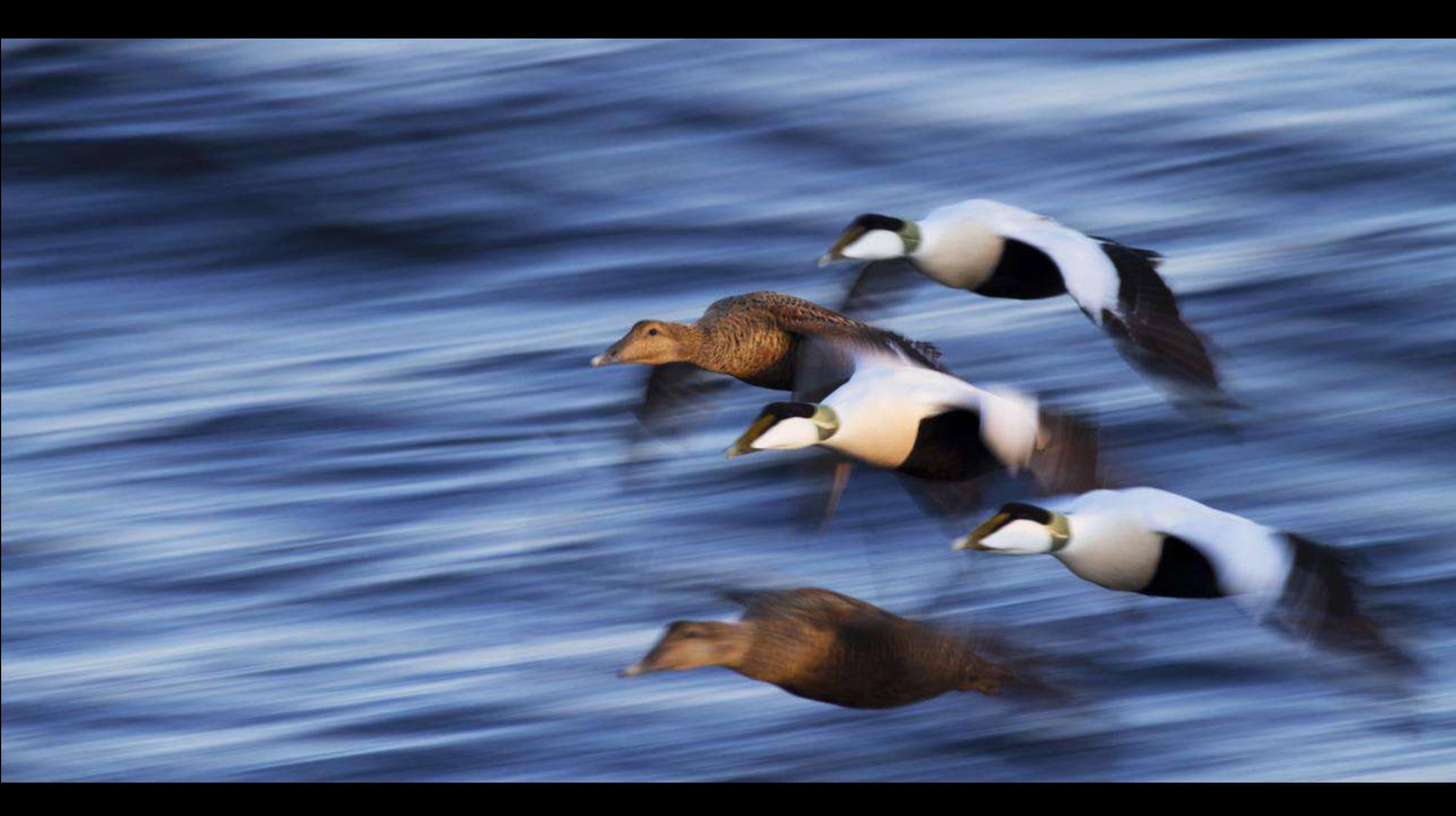
*Photo: Mats Westerborn*

# CLIMATE CHANGE – SALINITY DECREASE – LOSS OF ICONIC BALTIC SPECIES



*Photo: Mats Westerbom*





# **EUTROPHICATION EXACERBATED BY CLIMATE CHANGE - NEGATIVE EFFECTS ON BIODIVERSITY**

- **UNSTAINABLE USE OF NATURAL CAPITAL IS UNDERMINING SUSTAINABILITY**
- **COASTAL AREAS VULNERABLE**
- **PROTECTING BIODIVERSITY FROM MULTIPLE PRESSURES – STRONG ACTION NEEDED (MPA)**
- **REGIONAL TAILOR-MADE MEASURES**
- **RESTORING CARBON-RICH ECOSYSTEMS AND ACCOMPANYING ECOSYSTEM SERVICES BUILDS RESILIENCE**