The Climate Crisis A Message from the Arctic

International Maritime Organization, London 5.45 - 6.15 pm, 10th April 2018

Speakers

Dirk Notz Max Planck Institute for Meteorology

Sheila Watt-Cloutier Environmental and Human Rights Advocate

> Faig Abbasov Clean Shipping Coalition

Jørn Henriksen Hurtigruten

Moderator: Jytte Guteland

Member of the European Parliament

An event organised by the Clean Arctic Alliance and sponsored by the Clean Shipping Coalition followed by a reception in the delegates' lounge

Arctic Climate Change





The observed changes in the Arctic can be clearly linked to human activities. In a recent study, we showed that about three square metres of Arctic summer sea ice disappear for each metric ton of anthropogenic CO₂ emissions. It is therefore possible to calculate the impact of reducing CO₂ emissions from shipping on the disappearing sea ice cover.

Dr Dirk Notz, Max Planck Institute for Meteorology



The Arctic is warming at an alarming rate, at least **twice as fast** as the rest of the globe.

Three quarters of Arctic summer sea ice has disappeared since the 1970s, with the remainder projected to disappear before 2050.



In February 2018, the Bering Sea lost roughly **half of its sea ice cover** in just 2 weeks – villages typically surrounded by thick ice were pounded by surf.



By the end of February 2018, the northernmost weather station in the world in Greenland experienced **more than 60 hours** of temperatures above freezing.

Arctic Impacts



The Arctic has been subjected to the most dramatic environmental effects of globalization. From persistent organic pollutants to our weakened ozone, and most recently, to the huge changes to our lands and ice from climate change, we have borne the brunt of development far from home, and have been compelled to reach out to the world.

Sheila Watt-Cloutier, Environmental, Cultural and Human Rights Advocate

Climatic changes are rapidly affecting Arctic communities, livelihoods and wildlife.

Thinner ice and prolonged open water have changed distribution patterns and **food availability** for Arctic wildlife. Warmer conditions affect the ability of local people to travel and hunt safely.



In August 2017, the Chukchi Sea was 11°C warmer than average. Warmer seas delay winter ice formation, increasing the vulnerability of coasts to flooding and erosion.

Responding to **oil spills** will be difficult and often impossible due to extreme conditions, remoteness, and limited access to spill response equipment.

Global Consequences





We tend to think of climate change in isolation from the Arctic. The Arctic is both the first victim of global temperature increase and a major contributor to the rise of sea levels caused by these temperature changes. What happens in the Arctic doesn't stay in the Arctic but affects us all.

Faig Abbasov, Clean Shipping Coalition



Profound changes within the Arctic affect global climate systems including atmospheric circulation, extreme weather events, and sea level rise.



Melting of the Greenland ice sheet is the largest contributor to sea level rise, adding 300km³ of water to the ocean per year.



Sea level rise threatens hundreds of millions of people in low lying areas, putting them at risk of losing their land or entire countries.



The cost of sea level rise, estimated at over a trillion dollars, will be felt globally from small island states to coastal cities and ports the keystones of international trade.

The Challenge for Shipping

Black carbon on white snow, polar bears denied sea ice to hunt on and seabirds that find inedible warm water species in the High Arctic are consequences we are seeing every day during our travels. This is why we'd like to see international and domestic regulations banning the use and carriage of heavy fuel, not only in the Arctic, but also on the Norwegian Coast.

Jørn Henriksen, Director of Environment, Hurtigruten

Left unregulated, shipping could be responsible for 17% of global CO, emissions by 2050, and continued use of HFO will produce higher black carbon emissions than other marine fuels.

To meet the 1.5°C target, **Zero-Emission Vessels** (ZEVs) need to enter the global fleet by 2030, and be a significant share of newbuilds from then on.

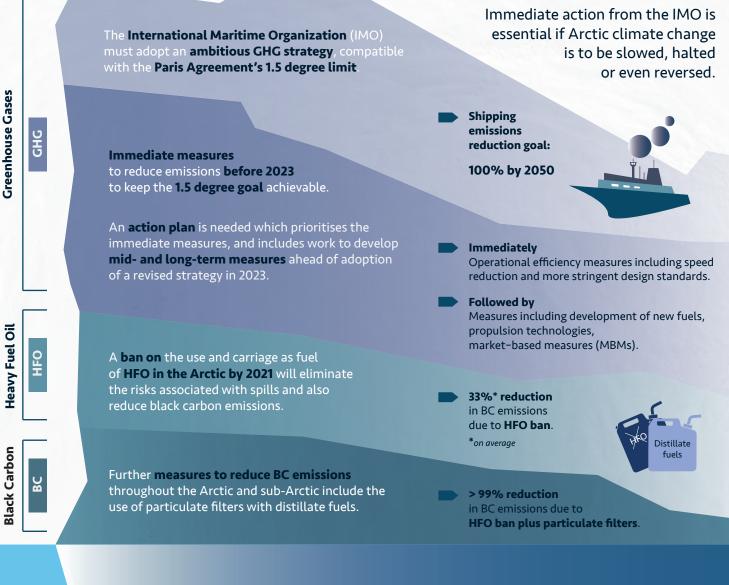


Failure to reduce shipping emissions could undermine other efforts to meet the Paris Agreement's goal.



By the end of 2021, Hurtigruten is committed to reducing its own **CO_-footprint** for the Norwegian coastal route by 25% compared with 2015-emissions.

Time for Action





IMO to adopt an initial GHG Strategy including emission reduction targets, an action plan to implement immediate measures before 2023 and support an HFO ban in the Arctic

Decision opportunities at IMO



IMO to identify black carbon abatement measures and commence work to adopt a ban on HFO in the Arctic



IMO to approve and adopt black carbon abatement measures and the Arctic HFO ban



IMO to adopt a final GHG Strategy

Adopting an ambitious GHG Strategy in 2018 is the most important climate decision of the year.

www.hfofreearctic.org - @HFOFreeArctic