

OUR CLIMATE IN PERSPECTIVE

Global temperature change 8°C 6°C 4°C 2°C **0°C** -2°C -10000 -5000 2500 2000 Year 0



The Greenland ice sheet could destabilise completely with around 1.5 - 2.0°C global warming. Complete melt of the ice sheet would lead to sea levels rising by about 7m.

THE ARCTIC: OUR EARLY WARNING SYSTEM

The Arctic is the most important early warning system for climate change on our planet. Rapid loss of Arctic sea ice is a clear indicator of changing climate.



years. The predicted changes for the next few hundred years are in steep contrast.

3/4 volume of Arctic summer sea ice has disappeared since the 1970s.

The remaining 1/4 is projected to disappear **before 2050** if we fail to fulfill the Paris Climate Agreement to limit global mean warming to well below 2°C and pursue efforts for 1.5°C.

Sources: Schellnhuber et al., Nature Climate Change, 2016; Notz and Stroeve, Science, 2016; Notz, 2018 Shipping and climate change presentation, Arctic Climate Crisis Panel Event, MEPC 72; Potsdam Institute for Climate Impact Research, 2012.



INCREASED SHIPPING IN THE ARCTIC CONTRIBUTES TO CO2 AND BC EMISSIONS AND THEREFORE ICE MELTING



CALLING ON THE SHIPPING COMMUNITY TO ACT NOW



Adopt a ban on HFO use and carriage as fuel by ships in the Arctic as a first urgent and indispensable step towards reducing warming and stopping the loss of Arctic sea ice.



Implement measures to reduce GHG emissions immediately to keep the 1.5°C goal achievable. Develop binding mid- and long-term measures, in IMO's revised GHG strategy in 2023, to eliminate emissions.

Sources: Third IMO GHG Study 2014; Comer et al. 2017 ICCT, https://www.theicct.org/publications/prevalence-heavy-fuel-oil-and-black-carbon-arctic-shipping-2015-2025; Olmer et al. 2017 ICCT, https://www.theicct.org/publications/GHG-emissions-global-shipping-2013-2015.