

Emission Control Areas - Reducing Air Pollution From Shipping



Shipping emissions significantly impact the climate, human health and ocean biodiversity

EMISSION CONTROL AREAS (ECAs)

Emission Control Areas (ECAs) are designed to reduce atmospheric pollutants from ships by requiring more stringent controls on fuels and engines while operating in the ECA.



Why do we need new ECAs?



Cleaner air



Reduce climate impacts



Existing ECAs



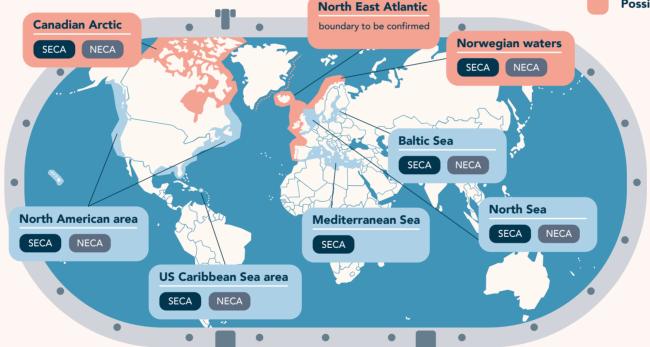
Possible future ECAs



Sulphur oxide triggers fine particulate matter (PM) emissions which leads to **health** impacts, and acid rain which damages buildings and landscapes.



Nitrogen oxide causes health impacts, and eutrophication and acidification of water. which disrupts aquatic and terrestrial ecosystems.



Two types of ECAs



Reduces SOx and PM emissions, with co-benefits:

- Reduces particulate matter (PM) including short-lived climate pollutant - black carbon (BC)
- Encourages ships to use cleaner fuels, potentially reducing CO² emissions



Reduces NOx emissions



Implementation of an ECA and the Arctic HFO ban in the Canadian Arctic would *:

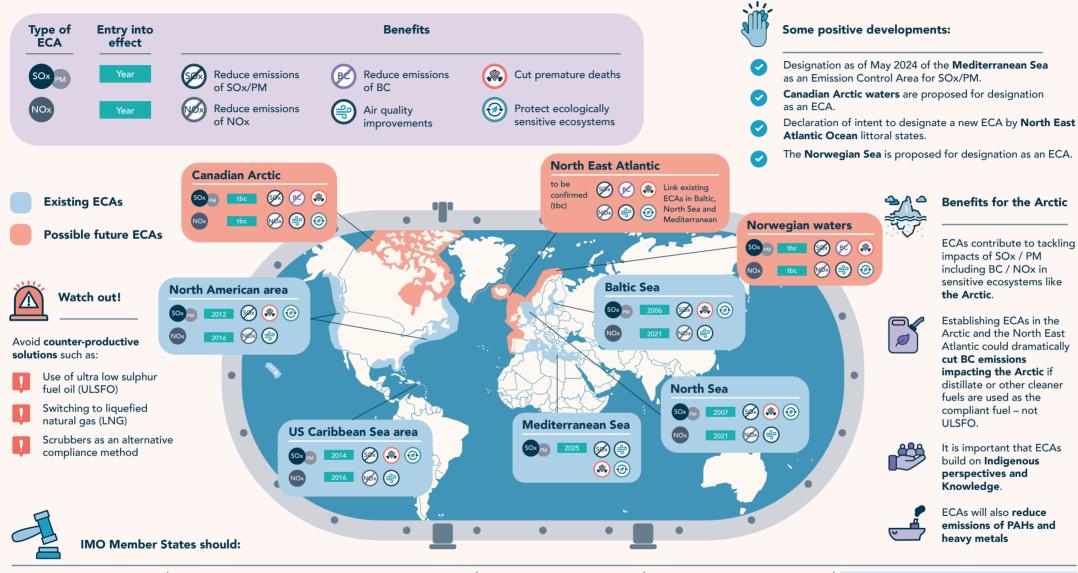
- → reduce SOx by 80% by 2030
- → reduce PM by **73% by 2030**
- → reduce BC by 58% by 2030



The Mediterranean SECA requirements will **:

- → reduce SOx by up to 80% by 2030
- prevent up to 3,000 premature deaths annually by 2030
- save more than 6,000 lives annually by 2050

Emission Control Areas - Reducing Air Pollution from Shipping to Protect the Arctic



- Incorporate Indigenous Knowledge in Arctic ECA proposals.
- Establish additional ECAs to link the
 Mediterranean Sea ECA with the North Sea and
 Baltic Sea ECAs and extend north to the Arctic
 including the waters off Norway, Iceland, the
 Faroe Islands, Greenland and Canada.
- Extend the Mediterranean Sea ECA to cover NOx emissions.
- Develop a new type of ECA specifically designed to reduce black carbon emissions.
- By 2026, designate new ECAs that will contribute to **reducing air pollution in the Arctic** and will benefit Arctic ecosystems and Indigenous People.

