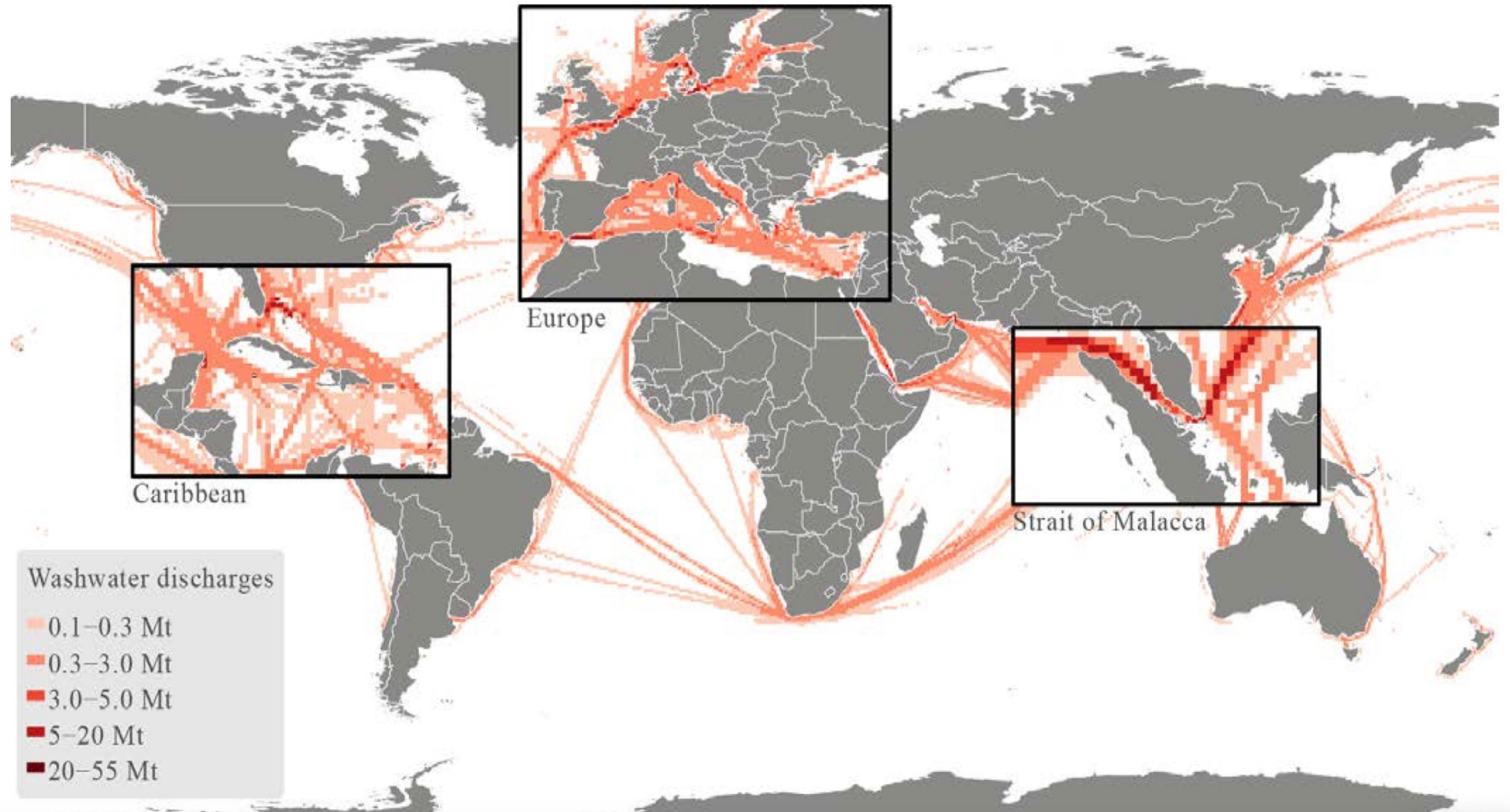
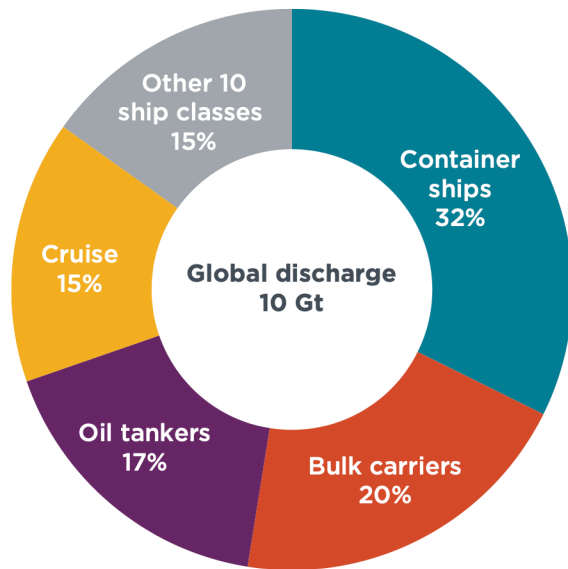


Global update on scrubber ban and restrictions

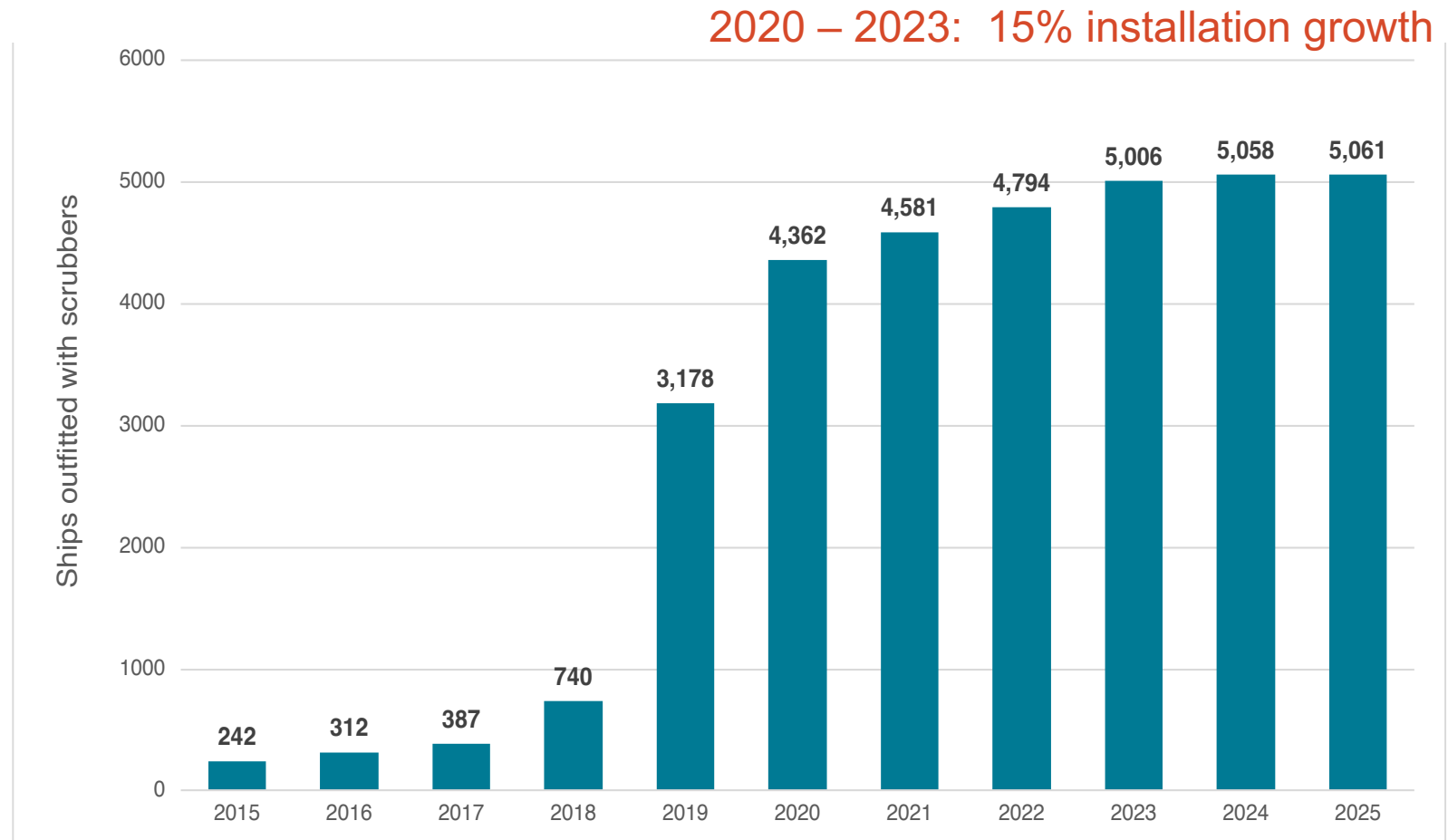
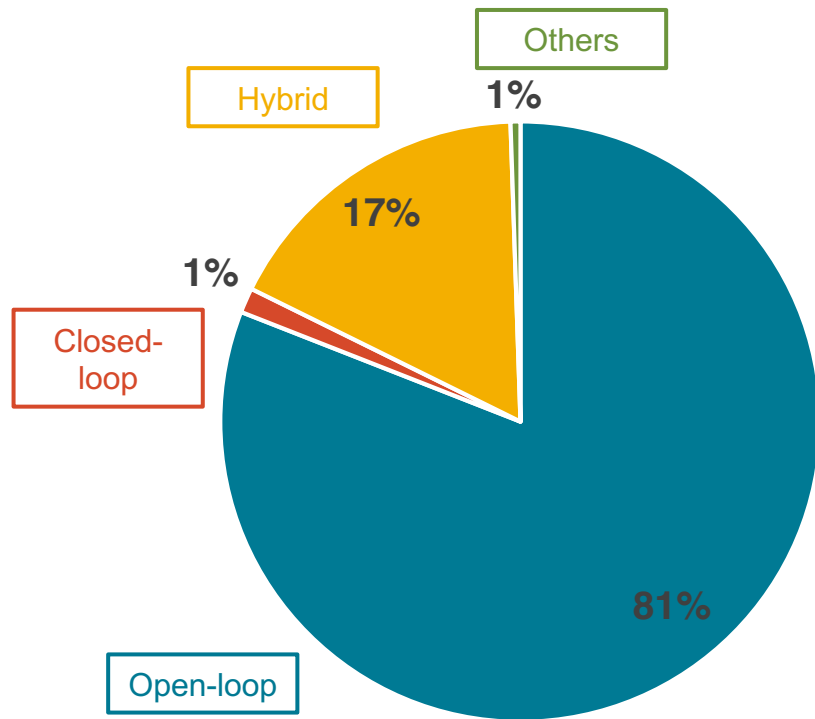
Liudmila Osipova, Ph.D.
International Council on Clean Transportation

Webinar
21 November 2023

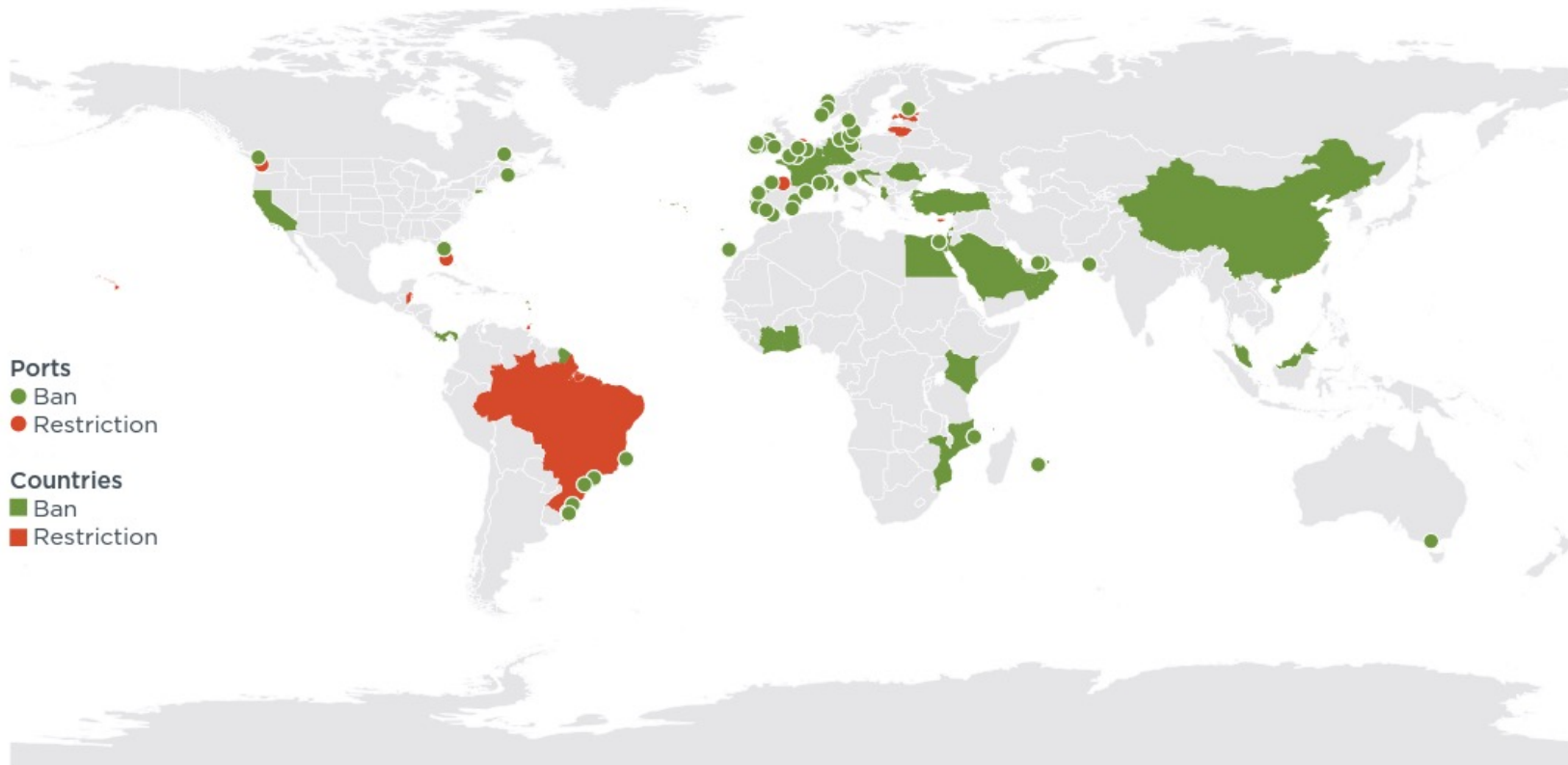
Global scrubber discharge water distribution



Scrubber installations



Bans and restrictions on scrubbers by countries and ports



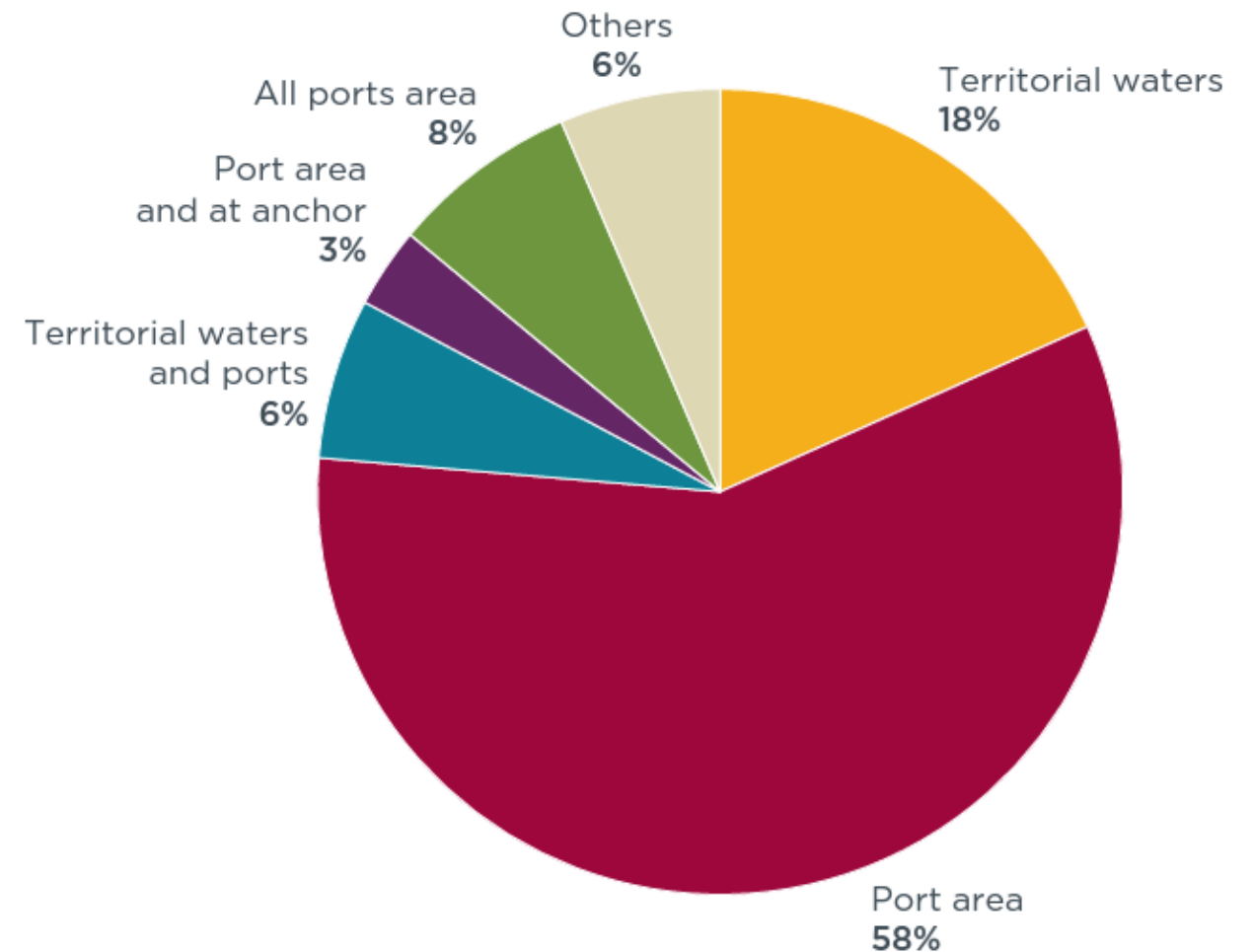
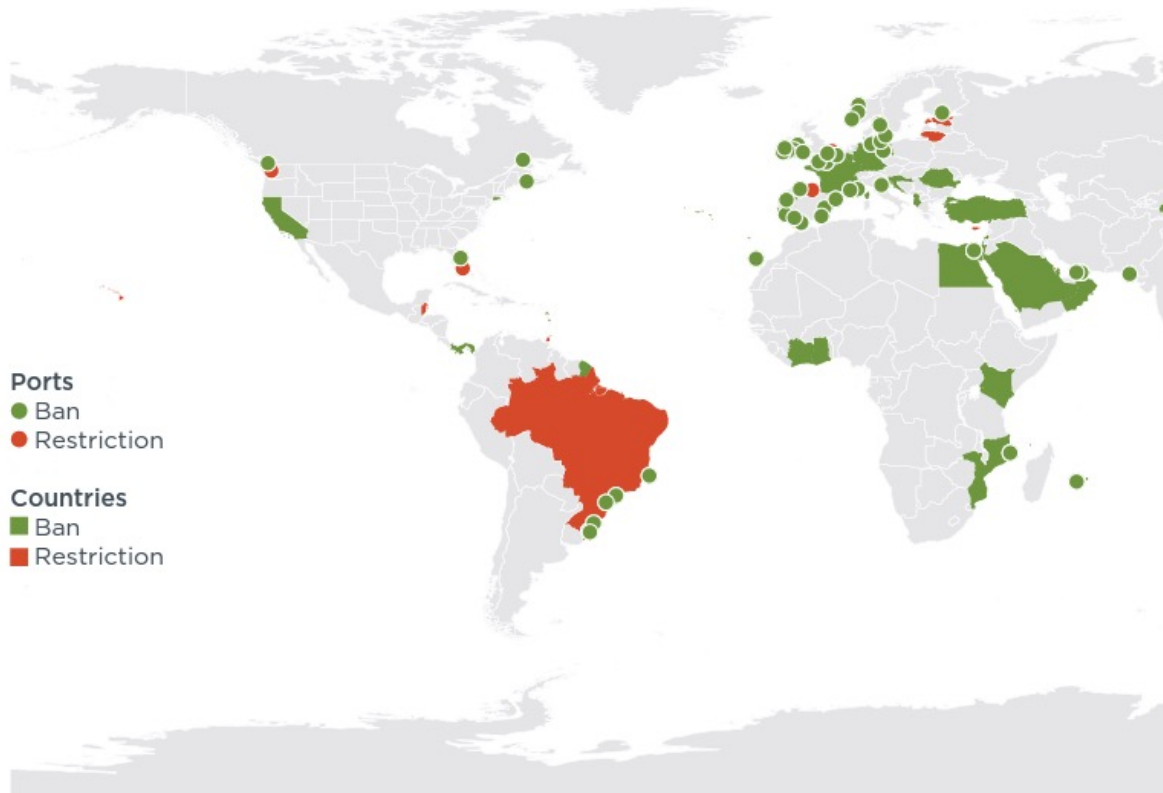
45 countries

80 bans

13 restrictions

(port, national, and sub-national level)

Bans and restrictions on scrubbers by countries and ports



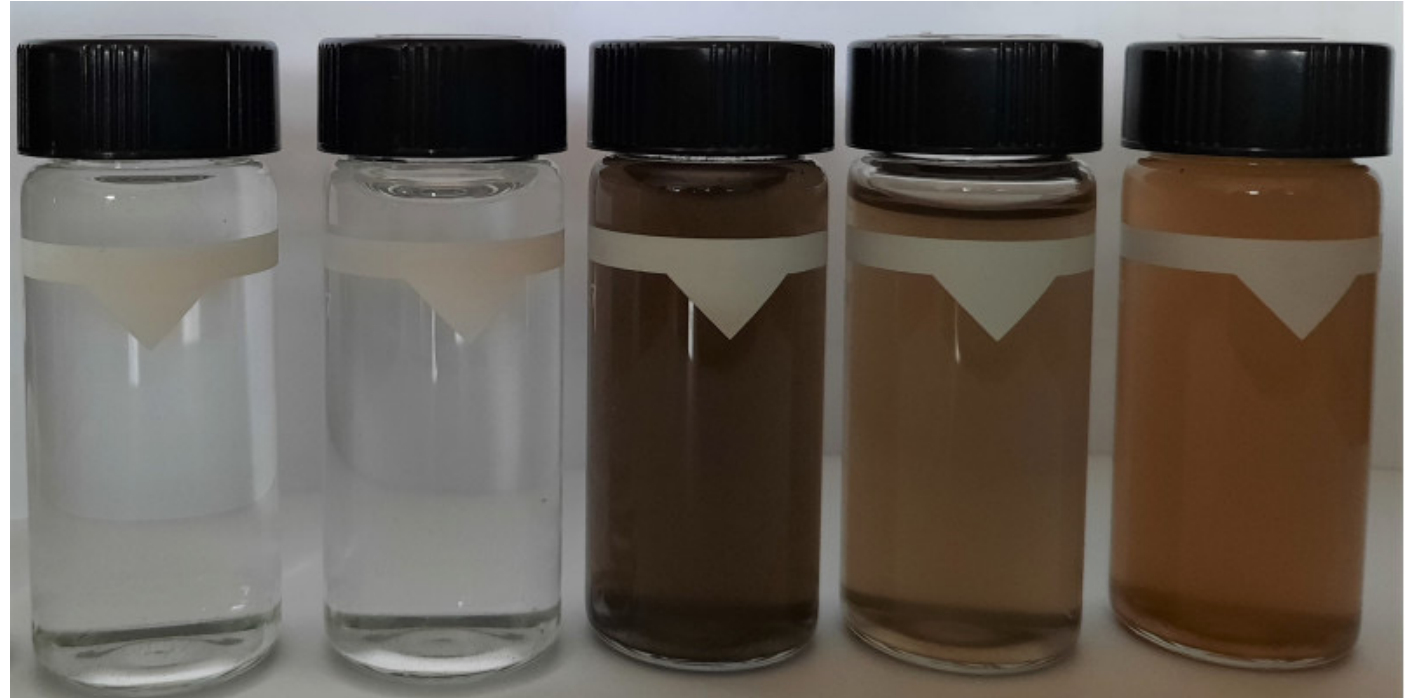
How are ports implementing the bans?

- Publication of Circulars regarding compliance with MARPOL Annex VI
 - E.g. Suez Canal, Saudi Arabia, Pakistan, India, etc.
- Amending the Port's Information Guide (Vancouver Fraser Port Authority)
 - Applied to all scrubbers discharges, including bleed-off water from the closed-loop scrubbers.
 - Ships must submit a pre-arrival declaration to the port's authorities
- Use of existing national laws
 - Germany: all inland waterways, canals, and ports discharge is not permitted according to the existing CDNI Convention

64% of measures applied specifically to open-loop scrubbers

! Many bans prioritize close-loop mode adoption for compliance

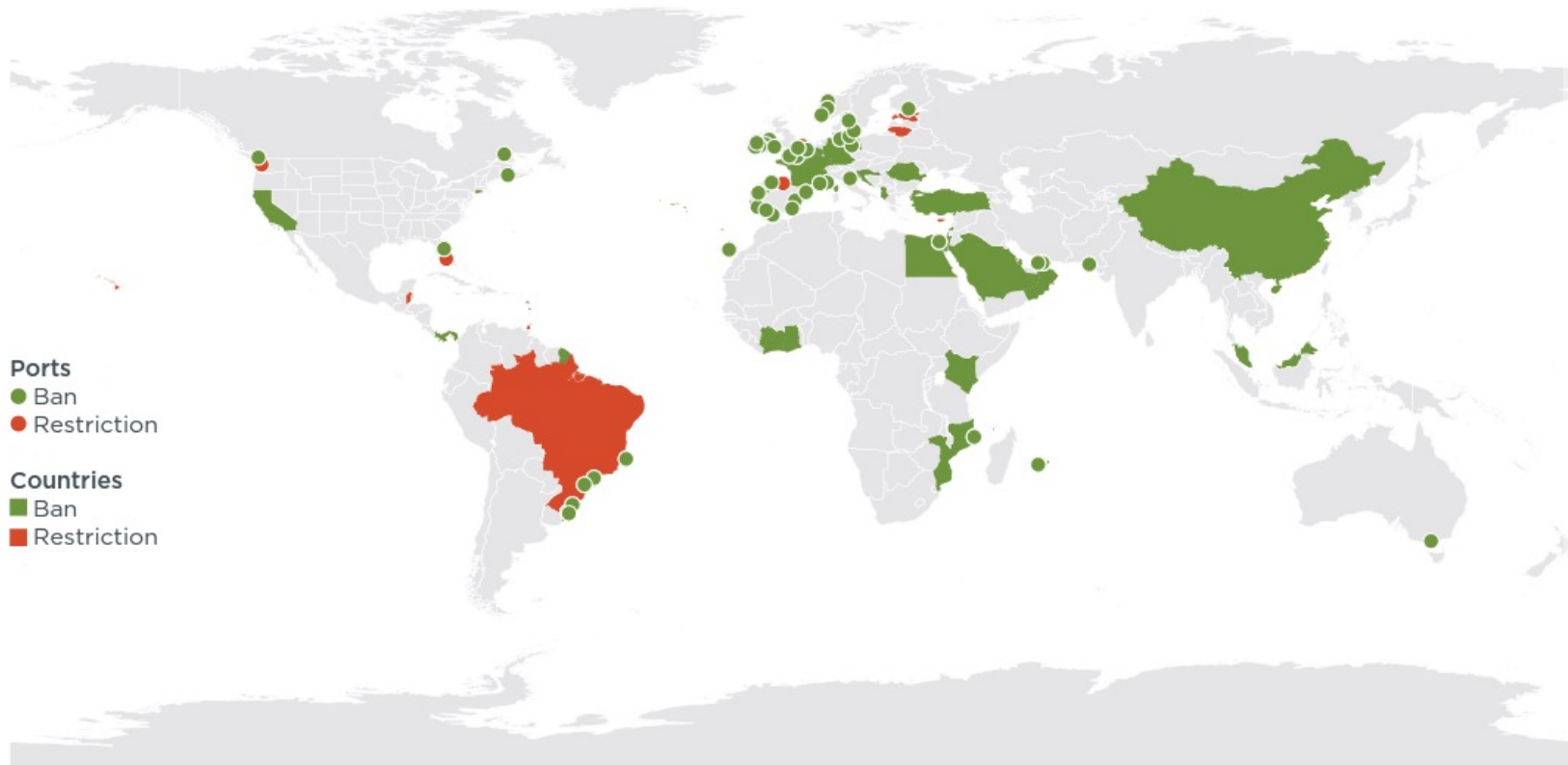
Only 29% of bans were applied to all washwater regardless of the scrubber type



Source: Bundesamt für Seeschifffahrt und Hydrographie (BSH)

Closed-loop scrubbers are not emission-free and are highly sensitive to water treatment removal efficiency

Bans and restrictions on scrubbers by countries and ports



1. EEA and UK (19 countries)
2. Africa and the Middle East (13 countries)
3. Americas (7 countries)

Bans and restrictions on scrubbers by countries and ports

EU to Add Sewage, Garbage, and Scrubber Water Discharge to Pollution Rules



EU is moving for regulations to add sewage, garbage, and scrubber water to the definition of pollution from ships (file photo)

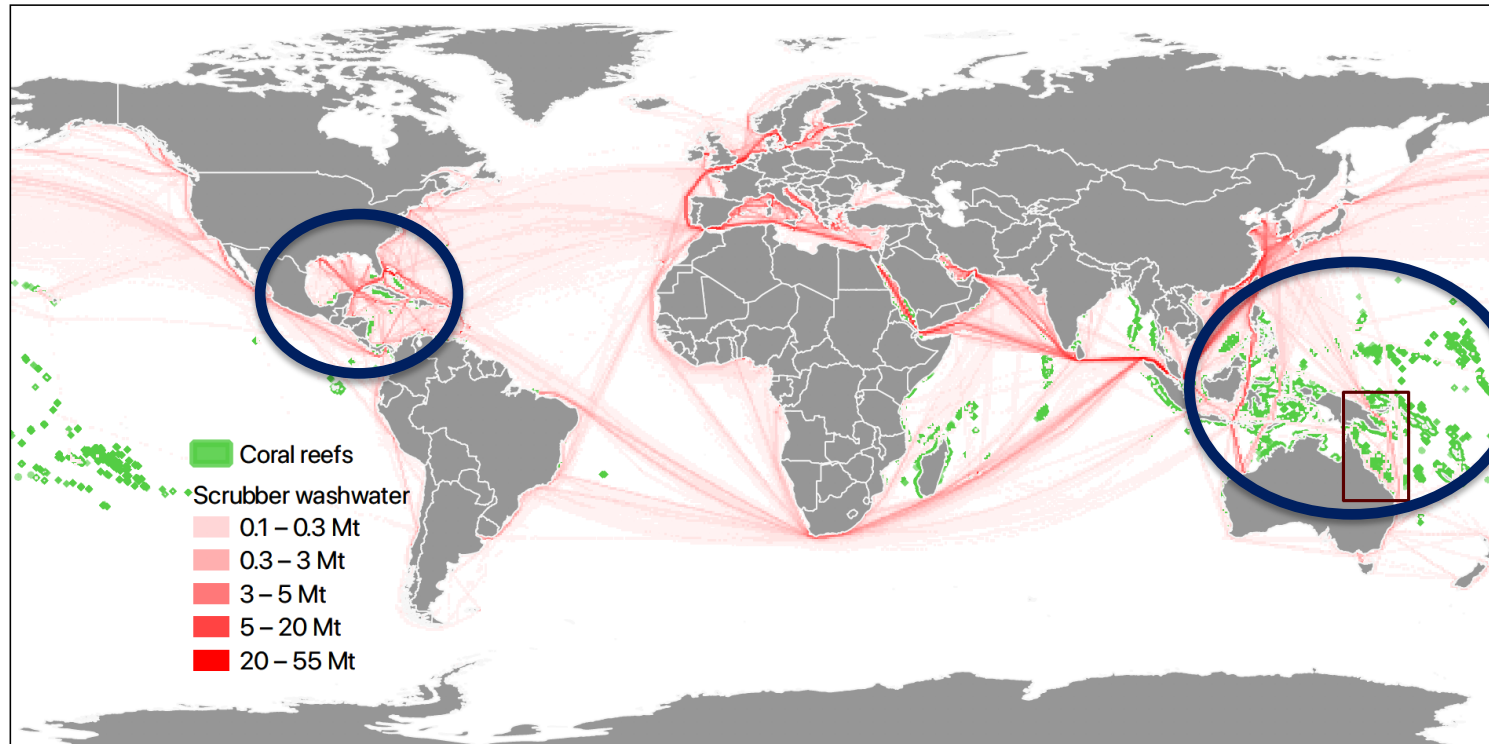
PUBLISHED NOV 17, 2023 11:39 AM BY **THE MARITIME EXECUTIVE**

The Transport and Tourism EU Committee adopted a draft of the proposal to extend current EU Maritime Rules on Safety and Pollution Prevention on Discharges to include sewage, garbage, and residues from scrubbers.

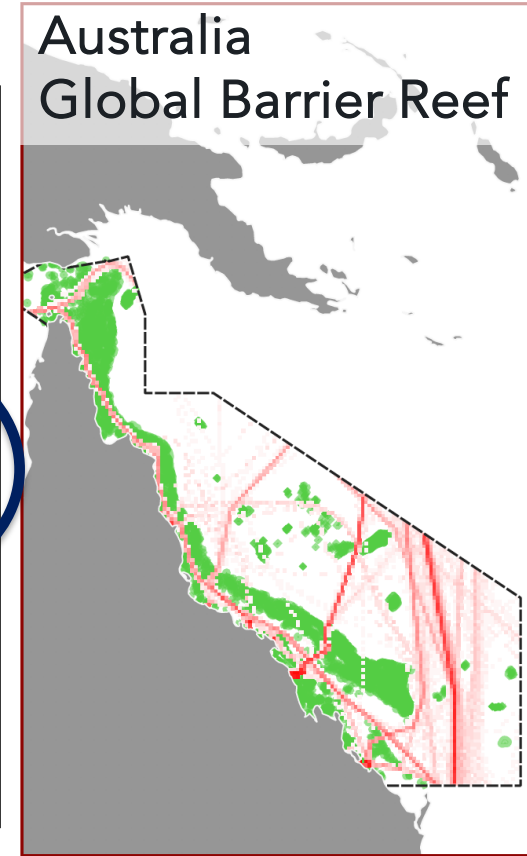
November 16, 2023.

None of the regulations address sensitive ecosystems or MPAs

Coral reefs and scrubber washwater

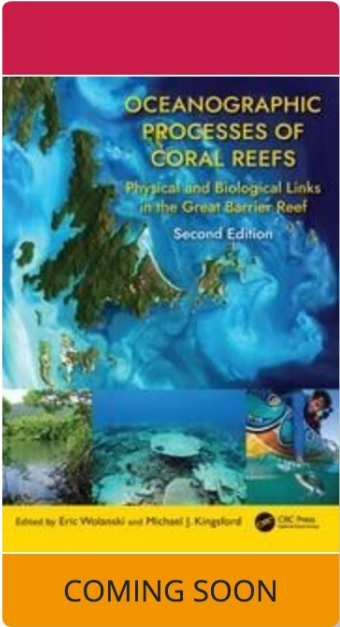


<https://theicct.org/coral-reefs-face-a-new-threat-from-international-shipping/>



32.2 mln t of washwater

None of the regulations address sensitive sea areas or MPAs



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Oceanographic Processes of Coral Reefs

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Chapter 9: Dispersal and environmental impacts of pan-oceanic contaminants

M. Hoogenboom, James Cook University, AU
L. Osipova, ICCT
M. Nordborg, AU Institute of Marine Science
J. Schlaefer, SCIRO, AU
K. Critchell, Deakin University, AU

What actions can IMO/countries/ports take?



- Stop discharging scrubber water in sensitive ecosystems and protected areas
- Prohibition of scrubbers as an equivalent sulfur compliance option



- Ban scrubber discharge water in national waters
- Joint efforts between neighboring countries
- On-land facilities to properly dispose of the sludge



- Scrubber discharge water ban in ports
- Water and sediment pollutants monitoring in ports
- On-land facilities to properly dispose of the sludge

Thank you!

I.osipova@theicct.org



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