



SEA PROTECTION AND TOURISM IN CROATIA



Croatia

- mediterranean climate
of
hot, dry summers
and
cool, rainy winters



Adriatic Sea

- semi-closed
- weak currents
- long retention of water masses
- waters vulnerable to persistent pollution
- the northern Adriatic is the most endangered
- mostly clear and clean





Environmental pressures of seaside tourism

- exhaustion of natural resources
- hunting and collecting of endemic species
- improper infrastructure
- water, air, noise pollution
- economic monopole



Overtourism

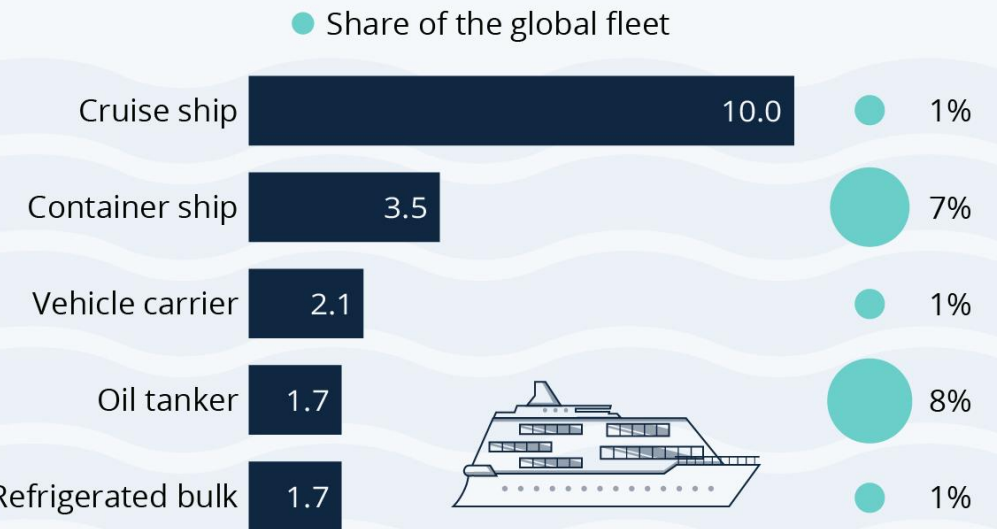
- present in seaside cities
- landscape abrasion caused by frequent tourist groups
- Dubrovnik limits daily number of tourist visits

Cruiser pollution

- many cruisers do not have waste water treatment plants on board
- most waste waters are unaccounted for
- no restrictions or charges for cruiser air emissions
- illegal disposal of hazardous waste

Cruise Ships Are the Biggest Black Carbon Polluters

Annual black carbon emissions per ship of the following types (in tonnes)



Source: Comer et al. (2017) via European Maritime Transport Environmental Report 2021



Nautical tourism



- sailing and boating + vacation activities
 - based on the attractive characteristics of a place
 - POSITIVE ECONOMIC EFFECTS
 - **NEGATIVE EFFECTS ON ENVIRONMENT:**
 - the construction of a nautical tourism harbor on inadequate places
 - pollution of the sea and coast
- 



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- Three out of Croatia's eight national parks are located on the sea → Brijuni, Kornati and Mljet.
- they are also affected by the impacts of nautical tourism.
- Brijuni are very endangered due to shallow and closed areas found in the northern Adriatic

The European Blue Flag is an international award.

The criteria:

- ✓ high quality of bathing water
- ✓ wastewater and discharges must not endanger the harbor or the beach
- ✓ landscaping of the harbor in accordance with spatial plans
- ✓ the sea must not be visibly polluted by solid or liquid waste





What is Croatia doing to prevent sea pollution?

- comprehensive legal system with regard to marine pollution
- banned the use of single-use plastic bags and some other disposable plastic products
- sustainable tourism development strategy
- Interreg PEPSEA
- Plastic Smart Cities
- For plastic free Croatian Islands



Waste management in Croatia

- in its transitional phase
- removal of illegal land-fills
- establishing a system that will eventually recycle and treat most waste
- relies mainly on landfilling

Measures for sustainable seaside tourism

- optimize tourist transport to and from Croatia
- avoid touristic monoculture
- develop other forms of tourism
- plan sustainable tourism on a regional, national, and international scale
- disallow tourism to exceed environmental capacity
- implement surveillance and fees for failing to comply with environmental regulations
- educate locals and tourists about the environmental impact of their actions

An underwater photograph showing various pieces of plastic waste floating in clear blue water. A large, crumpled white plastic bag is the most prominent object on the right. Other items include a green and white tin can, a black electrical plug with a cord, a red and white snack wrapper, and a clear plastic bottle. The background is filled with smaller pieces of debris and organic matter.

Measures for sustainable seaside tourism

- improving the infrastructure of waste management
- implementing more waste water treatment plants on boats
- more frequent measuring of the sea quality and more research in ways to prevent pollution

An aerial photograph of a heart-shaped island, likely in the Maldives, surrounded by clear turquoise water. The island is covered in lush green vegetation and has a white sandy beach. A white rectangular box with rounded corners is centered over the island, containing the text "Thank you!" in a bold, blue, sans-serif font.

Thank you!

Literature

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