

BEST PRACTICES

in maritime pollution prevention



Pollution classification considering environment

- Air pollution
- Water pollution
- Soil pollution
- Biocoenosis pollution

Pollution classification considering pollutants

- Physical
- Chemical
- Biological
- Radioactive

Checklist of pollution prevention actions from vessels

- Proper certification and training for officers and crew
- Strict compliance with international conventions (MARPOL, SOLAS, etc)



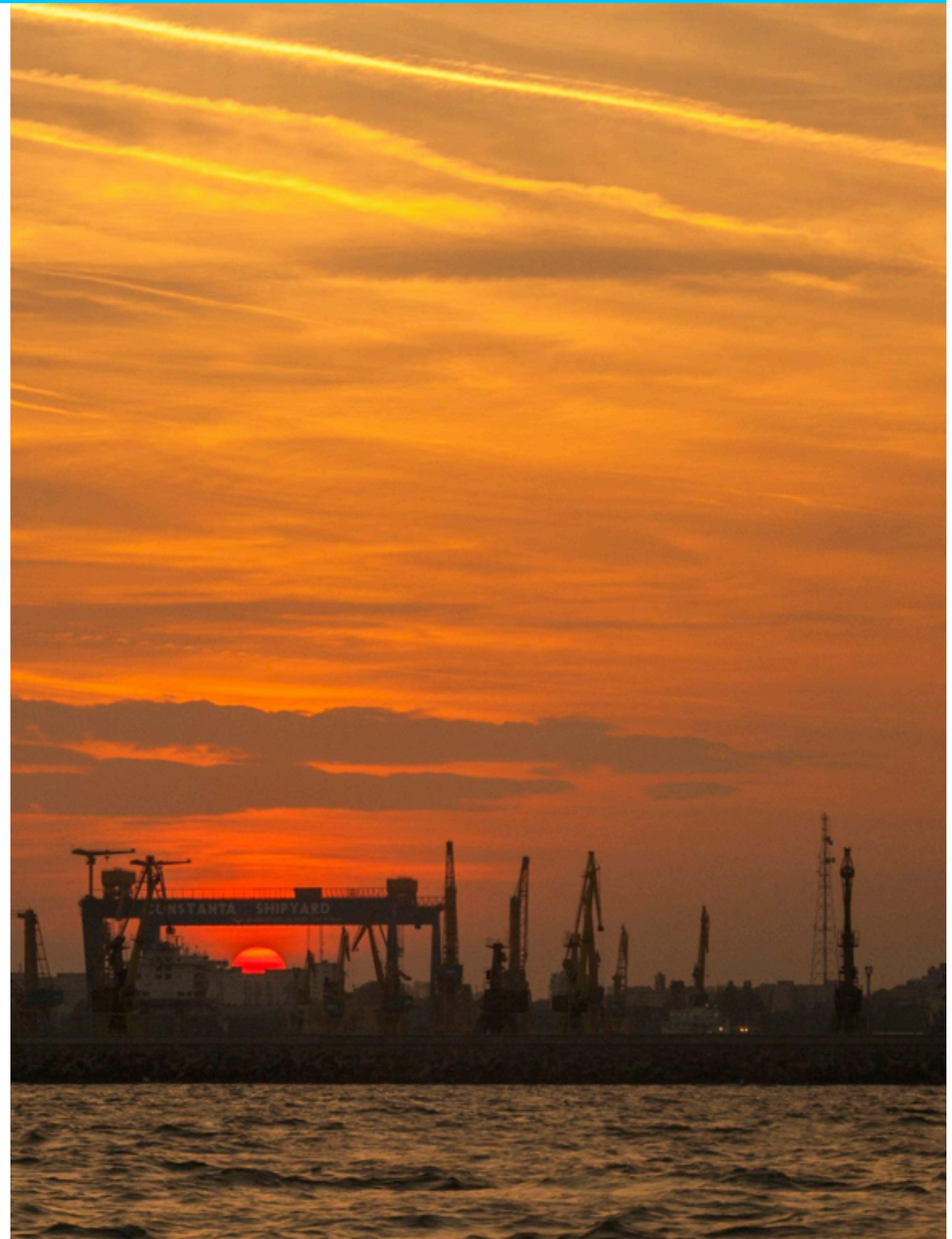
Checklist of pollution prevention actions from vessels

- Regular inspections on board and environmental incidents recording
- Staying updated and following environmental legislation



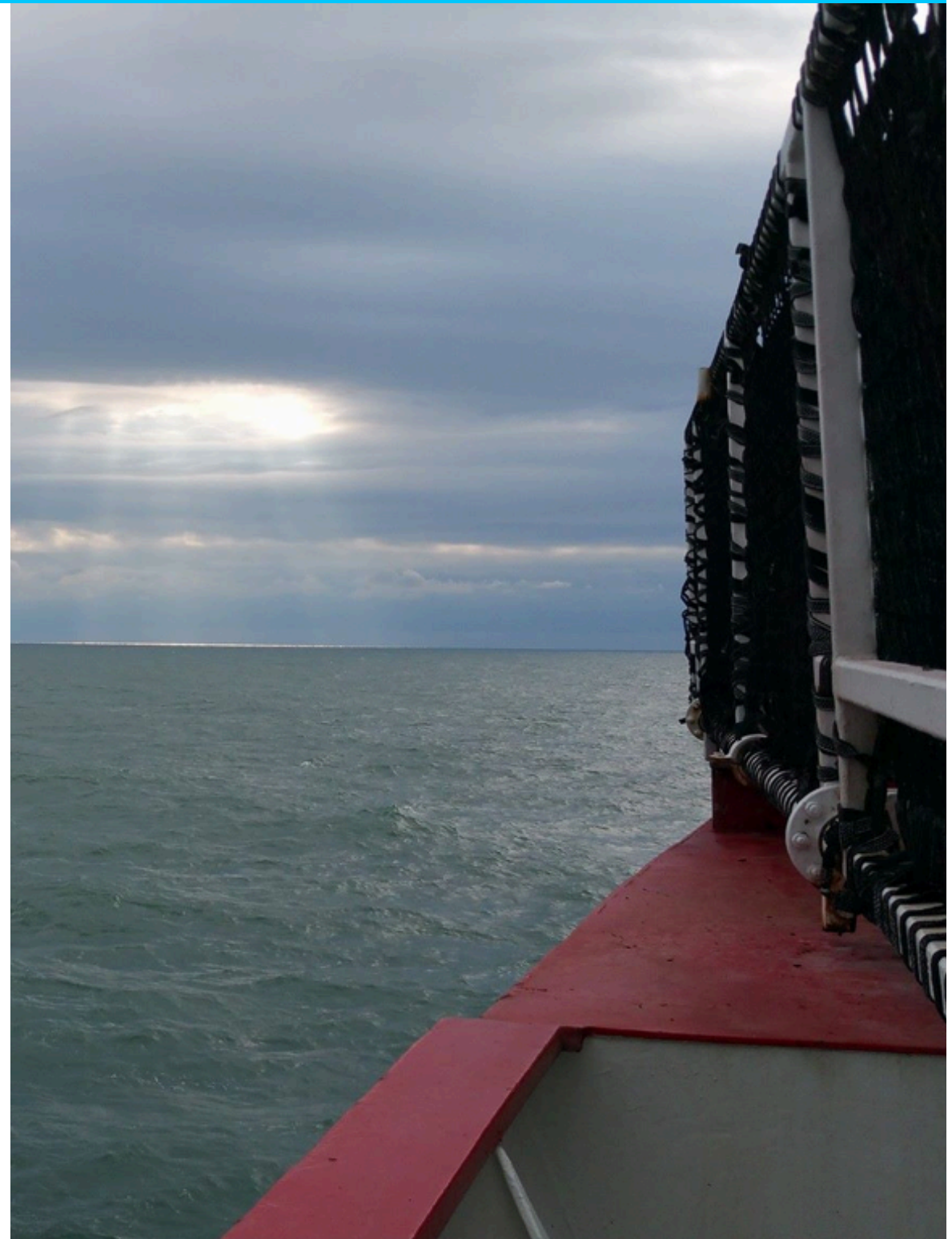
Checklist of pollution prevention actions from vessels

- existence of environmental policy action plan
- companies must involve other stakeholders (charterers, contractors etc)



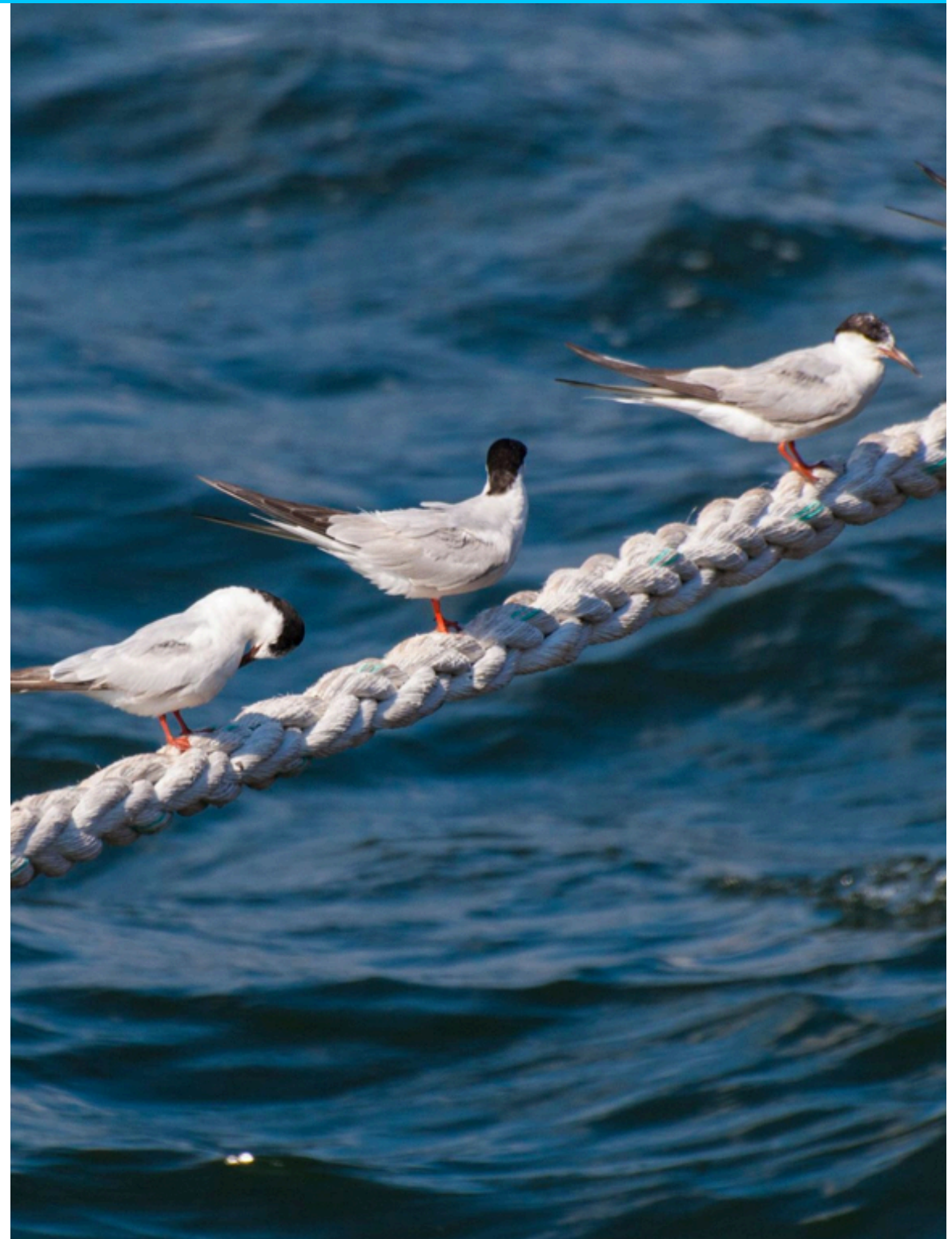
Checklist of pollution prevention actions from vessels

- keeping vessels and equipments well maintained
- practicing fuel management and energy efficiency through careful engine performance (limiting SO_x, NO_x and PM emissions)



Checklist of pollution prevention actions from vessels

- do not release bilge water or garbage - bilge system oil filtering equipment fitted with high level alarms and automatic stopping devices



Checklist of pollution prevention actions from vessels

- using low sulphur intermediate fuel oil
- compliance with Tier I and Tier II NOx emission limits
- ballast water exchange



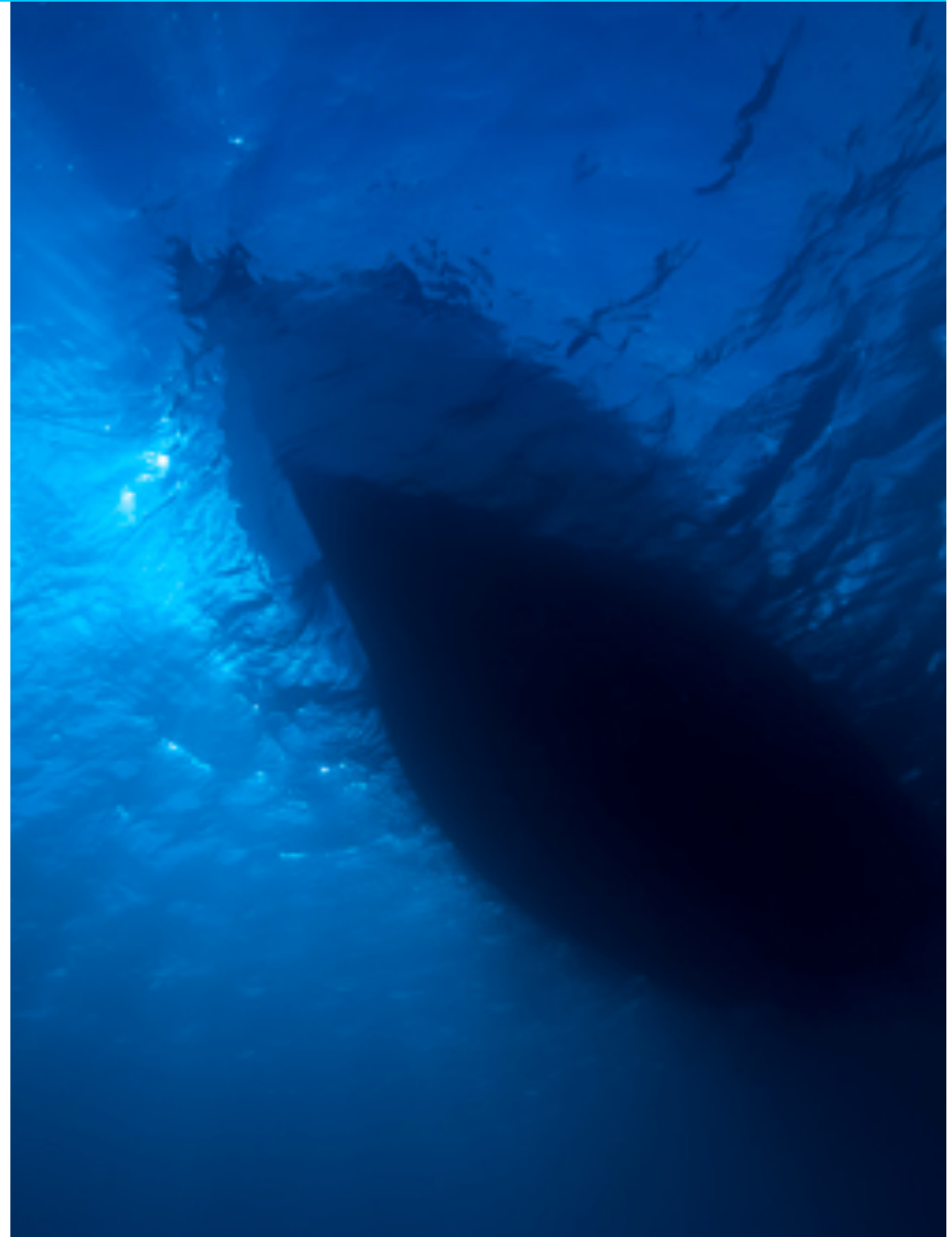
Checklist of pollution prevention actions from vessels

- using biodegradable lubricating oil in propeller shaft bearings or water lubricated propeller shaft bearings
- regular hull and propeller cleaning
- having a ship energy efficiency management plan (SEEMP) and an energy efficiency operational indicator (EEOI)



Checklist of pollution prevention actions from vessels

- mapping of factors affecting propulsion resistance and fuel efficiency
- following a programme for the minimization of harmful emissions close to ports



Checklist of pollution prevention actions from vessels

- keeping inventory of hazardous materials
- biological waste water treatment system
- slow speed steaming protected areas and particularly sensitive areas



Checklist of pollution prevention actions from vessels

- Companies must cooperate or support research on environmental conservation with environmental NGOs and research units (Ex: bio-fouling research, air emissions testing, etc)





Thank you!

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