



CARIPORTS

Caribbean Ports and Environment

Questionnaire

June, 2023

Let's get to know.

1.1 Your Port(s) generalities

→ Describing your port also means for us understanding its location, its specificities, and its own characteristics.

Can you please tick the appropriate answer(s)?

1. How many port(s) do you manage?

- 1
- 2
- 3-5
- > 5

2. How many employees does the port have?

- <50
- 50-99
- 100-199
- > 200

3. What does the port turnover include?

Port fees (Vessel taxes, passengers' taxes, Taxes on goods)
Tooling recipes (Rental of gantries, Rental of refrigeration outlets...)
Government recipes (Industrial Park and commercial area, International Trade Zone, Rental of sheds and storage areas, State-owned operation...)
Other recipes (environmental levy, facility use tax, sale of products to users, Occupancy tax, ancillary activities...)
Other: specify _____

4. Does the port publish an annual activity report?

Yes
No
Other: specify _____

5. What is the total Port(s) area(s)?

Estimated surface area of port areas: _____
Specify surface unit: _____

6. Do the port district or boundaries include:

Coastal areas
Terrestrial areas
Aquatic areas (fresh, marine, lake)
Dams, Bridges, Railroads, Railways
Protected areas (National Park, special reserve, Protected marine or land area)
Other: specify _____

7. Are one or more of this area.s directly connected to the Port?

Yes

No

Other: specify _____

1.2 Your Port(s) facilities and access

➔ Ports all have different structures. What's yours?

Can you please tick the appropriate answer(s)?

8. How would you characterize your port areas?

Port basin

Port Channel

Industrial zones

Storage zones

Warehouses zones

Quay's length/surface (specify unit): _____

Tracks length/surface (specify unit): _____

Surface area of median strips (specify unit): _____

Other: specify _____

9. What are your main equipment and services facilities?

Handling machines

Lifting equipment/cranes

Pipes

Specialized docks

Dry warehouses

Cold store

Other: specify _____

10. What are your port connections?

Port connection by sea

Port connection by roads

Port connection by railways

Other: specify _____

1.3 Your Port(s) activities

➔ Ports activities are very diversified, as the economic heart of many territories.

Can you please tick the appropriate answer(s)?

11. Which activities does your port manage among:

- Feederization
- Transshipment
- Freight/goods transport
- Passenger transport (ferries & cruise ships)
- Boating
- Inter-island transport
- Fishing and aquaculture activities
- Maintenance of port facilities and infrastructure
- Shipbuilding repair and maintenance
- Towage and pilotage services
- Mooring
- Lamanage/Ship handling
- Dredging
- Marinas and yacht clubs
- Fueling stations
- Waste management or treatment
- Management of natural areas
- Other: specify _____

12. Port(s) Draught (in metres)

- <10
- 10 -15
- 16 -20
- > 20

13. What is the maximum size of vessels (cargo handling, passengers, others) that can dock?

- <999 TEU (twenty-foot equivalent unit)
- 1000-3999 TEU
- 4000-5999 TEU
- 6000-8000 TEU
- > 8000 TEU

14. What types of cargo does your port handle?

- Containers
- Dry bulk
- Liquid bulk (non-oil)
- Oils, gas, and petroleum products
- Non-containerised goods
- Dangerous cargo (non-oil)
- Perishable goods
- Motor trade cars
- Other: specify _____

1.4 Your Port(s) and the Environment

➔ Ports are at the heart of a natural environment and ecosystems that influences their activities.

Can you please tick the appropriate answer(s)?

15. What are the main natural resources in/closed to the port's districts?

Forests

Mangroves

Herbaria

Coral reefs

Meadows

Fishery resource areas,

Remarkable species

Productive land

Water resources

Other: specify _____

16. What are the main factors that determine the Port's environmental actions?

Regulations

Economic considerations

Governmental context

Environmental, Natural resources context

Other factors: specify _____

17. Is the port submitted to a specific environmental legislation?

Yes

No

Other: specify _____

18. Does the port have a dedicated team for environmental issues?

Yes

No

Other: specify _____

19. Does the port have a specific budget for environmental actions?

Yes

No

Other: specify _____

20. Does the port have an Environmental Management System (EMS) or a policy dedicated to environment subjects?

Yes

No

Other: specify _____

**21. Among these environmental themes, which are the most important for your port?
(You can choose multiple themes)**

- Sustainable development & Blue Economy (sustainable tourism for e.g.)
- Energy consumption and greenhouse gases (e.g., CO2 emissions)
- Atmospheric emissions
- Natural risks
- Waste management
- Noise management
- Solid bulk cargo residues
- Soil pollution
- Invasive alien species
- Ecosystem degradation
- Water pollution
- Other: specify _____

1.5 Your Port(s) and its partners

Can you please tick the appropriate answer(s)?

22. How important is the port to the local economy?

- Direct labor
- Indirect labor
- Partnership
- Other: specify _____

23. With which communities does the port have relations?

- The public
- Government institutions
- Tourist organizations
- Scientific structures: academies, universities
- Associative community (NGO's)
- Education stakeholders
- Fisheries
- Managers of natural areas
- Other Industries
- Other Ports
- Other: specify _____

24. What industries does the port work with?

- Global industry
- Chemicals and pharmaceuticals
- Fisheries
- Agrifoods industries
- Metal processing and refining
- Steel mill
- Oil refineries
- Power stations
- Other: specify _____

25. Does the port participate to specific actions for the development of the local communities?

Yes

No

Other: specify _____

26. Does the port work with specific groups for environmental themes?

Yes

No

Other: specify _____

2. Your opinion makes sense for us.

2.1 Your Port facing Environmental issues.

➔ All ports are confronted to local or worldwide environmental issues, some being specific, others common to all.

Can you please tick the appropriate answer(s)?

27. Among these common items, what are the environmental problems facing the port?

Air quality: Emissions of atmospheric pollutants: CO, NOx, SOx, PM10 particles, Greenhouse gas (GHG) emission

Handling: solid bulk cargo residues

Carbon footprint

Power consumption, Fuel consumption

Aquatic invasive species

Soil pollution: leaks and spills of pollutants

Water pollution: leaks and spills of pollutants

Other pollution: oily discharges

Suspended matter

Uses: airborne noise, dust, odors and light, on residents

Waste management: ship recycling for example

Impacts on ecosystems

Impacts of activities on wildlife (marine, terrestrial)

Underwater noise

Other: specify _____

28. Which of the above environmental issues is the Port Authority responsible for?

Port Air Quality

Port Energy Consumption

Port Wastes Management

Port Noise control

Port Water Quality

Other: specify _____

**29. Which of these solutions do you consider to be the most important for a port?
(You can choose multiple themes)**

- Reduction of energy consumption
- Reduction of Greenhouse gas (GHG) emissions
- Carbon offset services
- Alternative energies (type of fuel)
- Clean technologies
- Ship speed reduction
- Nature-based solution (Ecosystem restoration for e.g.)
- Employee awareness/training program
- Biodiversity conservation measures
- Environmentally friendly shipping equipment and facilities
- Reduction of substances as defined by MARPOL
- Other: specify _____

2.2 Your Port facing Climate change issue.

➔ **Whether it is your experience, the natural conditions specific to your country or the risks weighing on a wider region, your opinion on the potential effects of global warming on your port ecosystem is key information for us.**

Look at the image on the last page. Can you tick the appropriate answer(s)?

30. Can you choose 5 themes that seem to be more important than others for your port?

- Temperature rise
- Sea level rise
- Ocean acidification
- Extreme weather events
- Changing water cycles
- Rupture of Ecological Continuity
- Tsunamis
- Disappearance of the mangrove
- Disturbances of the seabed (seagrasses)
- Coral bleaching
- Vulnerability of ecosystem resources
- Migrations or rarity of species
- Invasive species
- Other: specify _____

31. How environmentally sensitive do you think your port area is to natural hazards?

- High
- Normal, medium
- Low
- Do not know
- Other: specify _____

32. Do you think there are any risks to the development of your port linked to global warming?

- Yes
- No
- Other: specify _____

33. Do you think the effects of climate change could affect your port infrastructure?

Yes

No

Other: specify _____

34. Have you ever heard of existing solutions for adapting to or anticipating the effects of these risks?

Never

Once

Several times

Do not know

Other: specify _____

2.3 Additional information (optional)

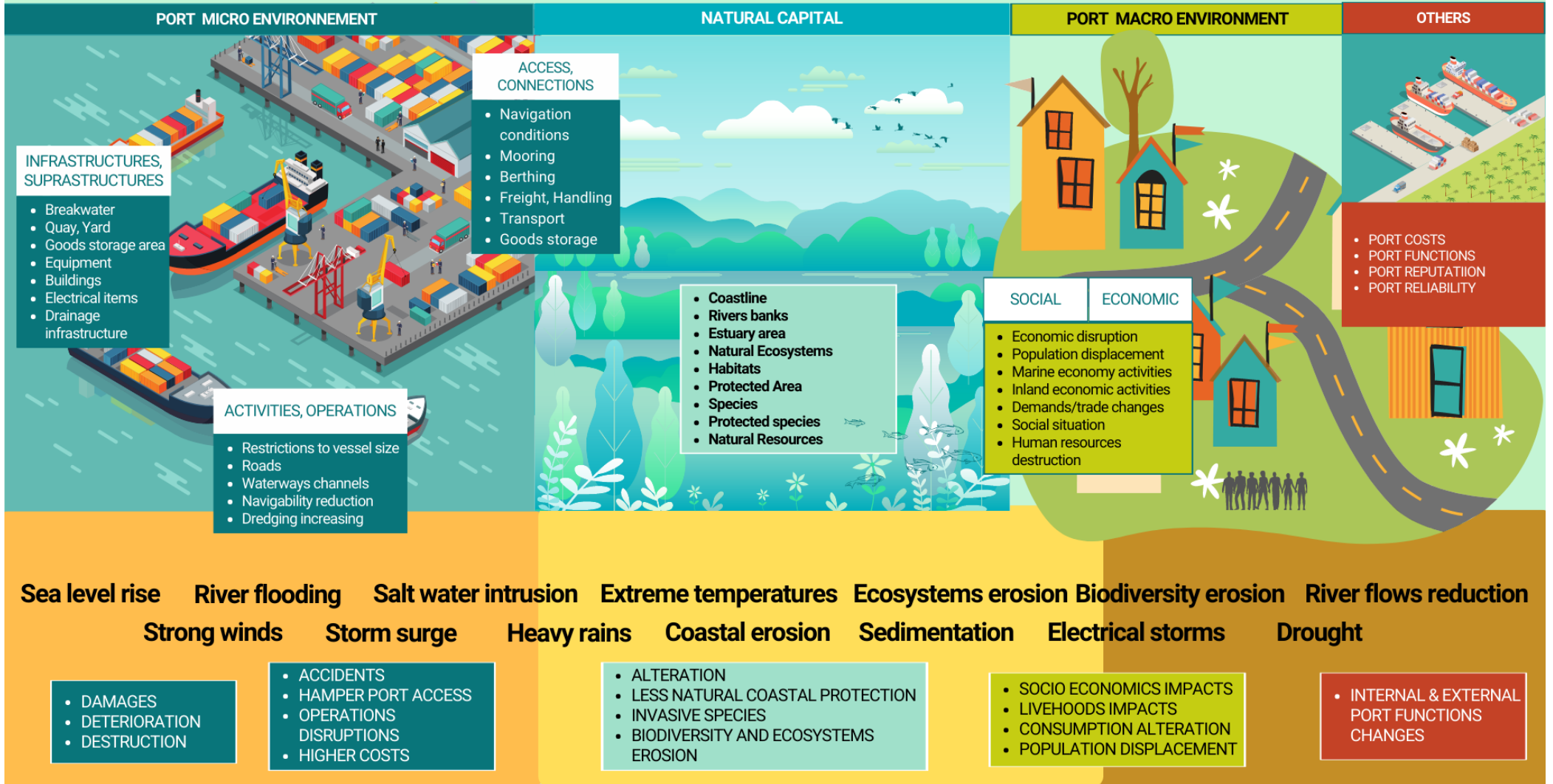
Would you like to provide any additional information on these subjects?

Indicate here the supporting documents you would like to send us:

Thank you for your answers.

CARIPORTS

CLIMATE CHANGE



The mind map is a support tool designed to facilitate the collection of data for the questions "Your Port facing Climate change issue" (part 2.2).

The aim is to collect information on the port's "possible, proven or perceived" exposure to one or more effects of global warming, to determine its VULNERABILITY and IDENTIFY PAST, CURRENT AND FUTURE CLIMATE TRENDS.

Legend

Micro-environment: It comprises all the port's internal and external components, as well as the stakeholders who interact directly with it. Unlike the macro-environment, the port can influence its micro-environment. Examples of micro-environment elements: infrastructure and superstructure, activities and operations, access, and connections.

Natural capital: This is the set of natural components that provide benefits (services and goods) to people, communities, and the port itself. For example, natural ecosystems, natural resources, and species provide essential ecosystem services.

Macro-environment: this refers to the general environment within which the port operates. It includes general components that the port cannot influence directly. For example: trade supply and demand, population movements or economic disruption.

Other: These are components specific to the port, linked to its operation. For example, its costs, functions, reputation, and reliability.

Example of how to interpret the mind map

CLIMATE CHANGE	THEMES	COMPONENTS	EFFECTS
EVENTS			
Strong winds	Port Micro environment	Activities, Operations	NAVIGABILITY REDUCTION
Flooding		Access and connections	BARRIERS TO PORT ACCESS
			DISRUPTION TO OPERATIONS
		HIGHER COSTS	
Extreme temperatures	Port Macro environment	Social Economics	DISPLACEMENT OR LOSS OF POPULATION
Erosion of ecosystems	Port Natural Capital	Natural Resources	IMPACTS ON LIVELIHOODS
			ALTERATION/EROSION OF SPECIES
			INCREASE IN INVASIVE SPECIES