RAC-REMPEITC Caribe

13th MESO AMERICAN AND CARIBBEAN SEA HYDROGRAPHIC COMMISSION CONFERENCE

November 20th – 23rd, 2012

Antigua, Guatemala

November 2012

Anne Réglain – RAC/REMPEITC-Caribe

Regional Marine Pollution Emergency Information and Training Center

INTERNATIONAL MARITIME ORGANIZATION

UNEP

Cartagena Convention

Cartagena Convention

1976: Caribbean Environment Programme (Regional Seas)

CARTAGENA CONVENTION

Adopted in 1983
In force since 1986

Protocol Concerning Co-operation in Combating Oil Spills

Adopted in 1983
In force since 1986

Protocol Concerning Specially Protected Areas and Wildlife (SPAW)

Adopted in 1990
In force since 2000

Protocol Concerning Pollution from Land-Based Sources and Activities (LBS)

Adopted in 1999
In force since 2010

RAC/REMPEITC (Curacao) ↔ **SPAW RAC** (Guadeloupe) ↔ **CIMAB** (Cuba) ↔ **IMA** (Trinidad)

RAC/REMPEITC

Missions

- Strengthen national and regional capabilities
- Exchange information and provide technical assistance
- Facilitate cooperation
- Promote the ratification of international IMO conventions

Activities

- Training courses, Regional seminars, Exercises, Technical support/consultancy

RAC/REMPEITC

1/ Oil Spill Preparedness, Response and Cooperation

2/ Marine Pollution Prevention

- Pollution from Ships: garbage, oil…
- Invasive Alien Species: ships' ballast water management
- Harmful Anti-Fouling Systems on Ships

RAC/REMPEITC

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UNEP CEP IMO RAC-REMPEITC Caribe

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Welcome to RAC/REMPEITC-Caribe

The Regional Marine Pollution Emergency Information and Training Center for the Wider Caribbean (REMPEITC-Caribe) is a Regional Activity Center (RAC) for the Protocol Concerning the Cooperation in Combating Oil Spills in the Wider Caribbean Region (Oil Spills Protocol).

This website is designed to improve the oil spill response communication between the governments of the various countries of the Wider Caribbean Region and to provide information on oil spill pollution prevention and response for the Wider Caribbean Region.

You will find general information on our activities, our objectives and our upcoming events.

Oil spill response technical documents are downloadable and a country profile database is available to view to increase the cooperation within the Caribbean and Central American nations, other regional states, and centers.

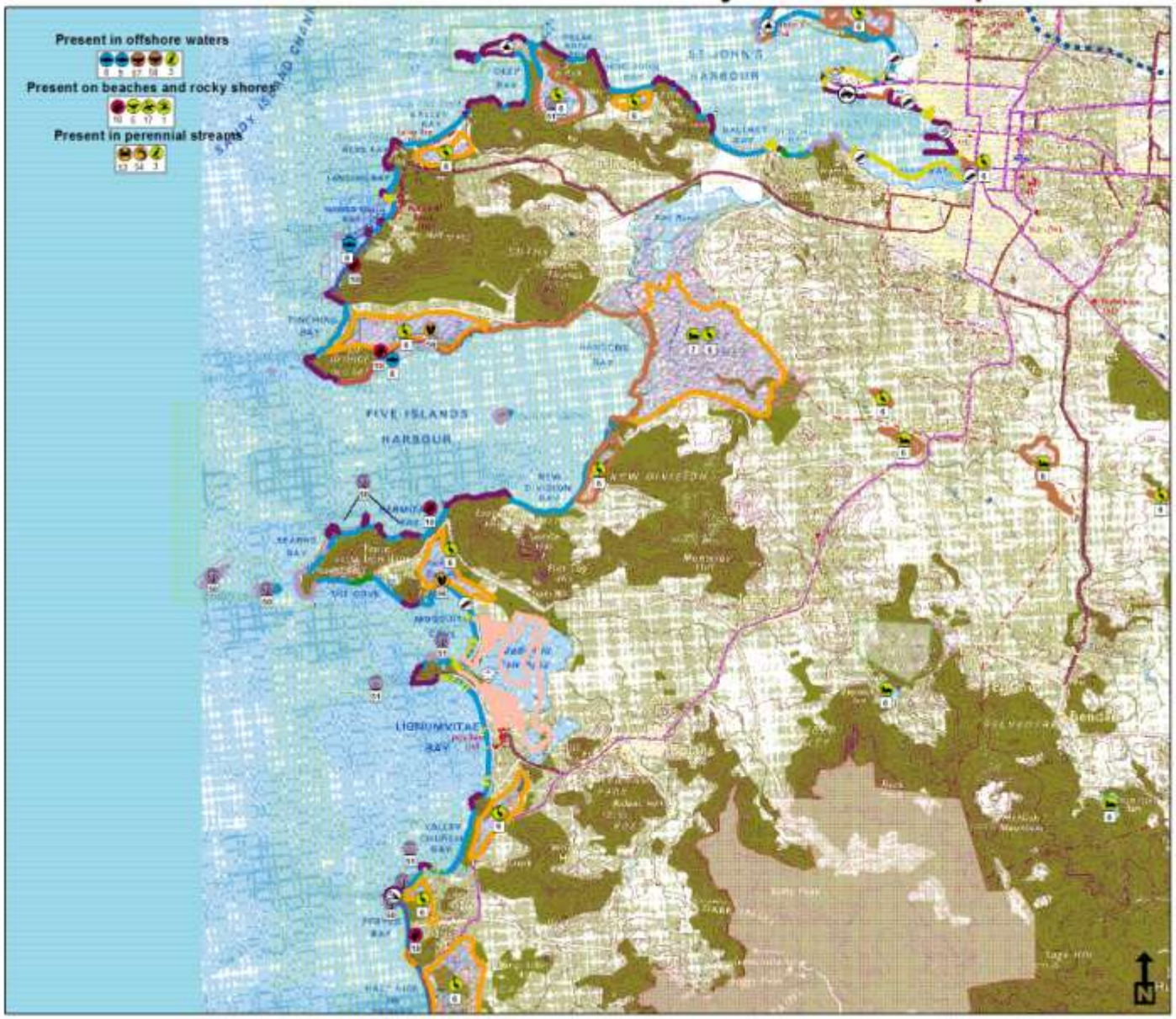
http://cep.unep.org/racrempeitc

Environmental Sensitivity Index Map (ESI Map)

ESI Map

- Geographically reference biological resources, human-use resources, and ESI-classified shorelines that are ranked based on their sensitivity to oiling
- Concise summary of coastal resources that are at risk if an oil spill occurs nearby
  - Birds, corals, turtles, mangroves, salt marsh, desalinization plant, fish farm …
- Help planners and responders to:
  - Establish protection priorities
  - Identify cleanup strategies
  - Reduce the environmental consequences of the spill and the cleanup efforts

Environmental Sensitivity Index Map



West, Antigua
ESI 2 (2012)

Legend

Shoreline Habitats (ESI) Antigua

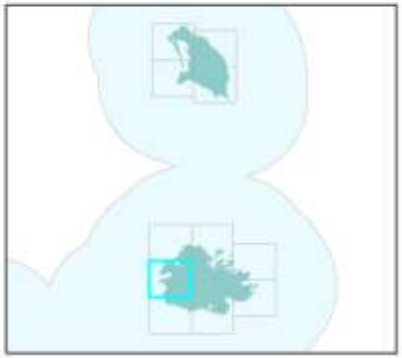
- 1A Exposed rocky cliffs
- 1B Exposed, solid man-made structures
- 2A Exposed wave-cut platforms in bedrock
- 3A Fine- to medium-grained sand
- 5 Mixed sand & gravel
- 6A Gravel beaches
- 6B Riprap
- 8A Sheltered rocky shores
- 8B Sheltered, solid man-made structures
- 9A Sheltered tidal flats
- 9B Vegetated low banks
- 10D Mangroves

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

1:40,000

Sponsored by the
International Maritime Organization (IMO)
through the
Regional Activity Center/Regional Marine Pollution
Emergency, Information and Training Center
(RAC/REMPEITC-Carib)
in cooperation with the
National Office of Disaster Services (NODS)
Government of Antigua and Barbuda
2012



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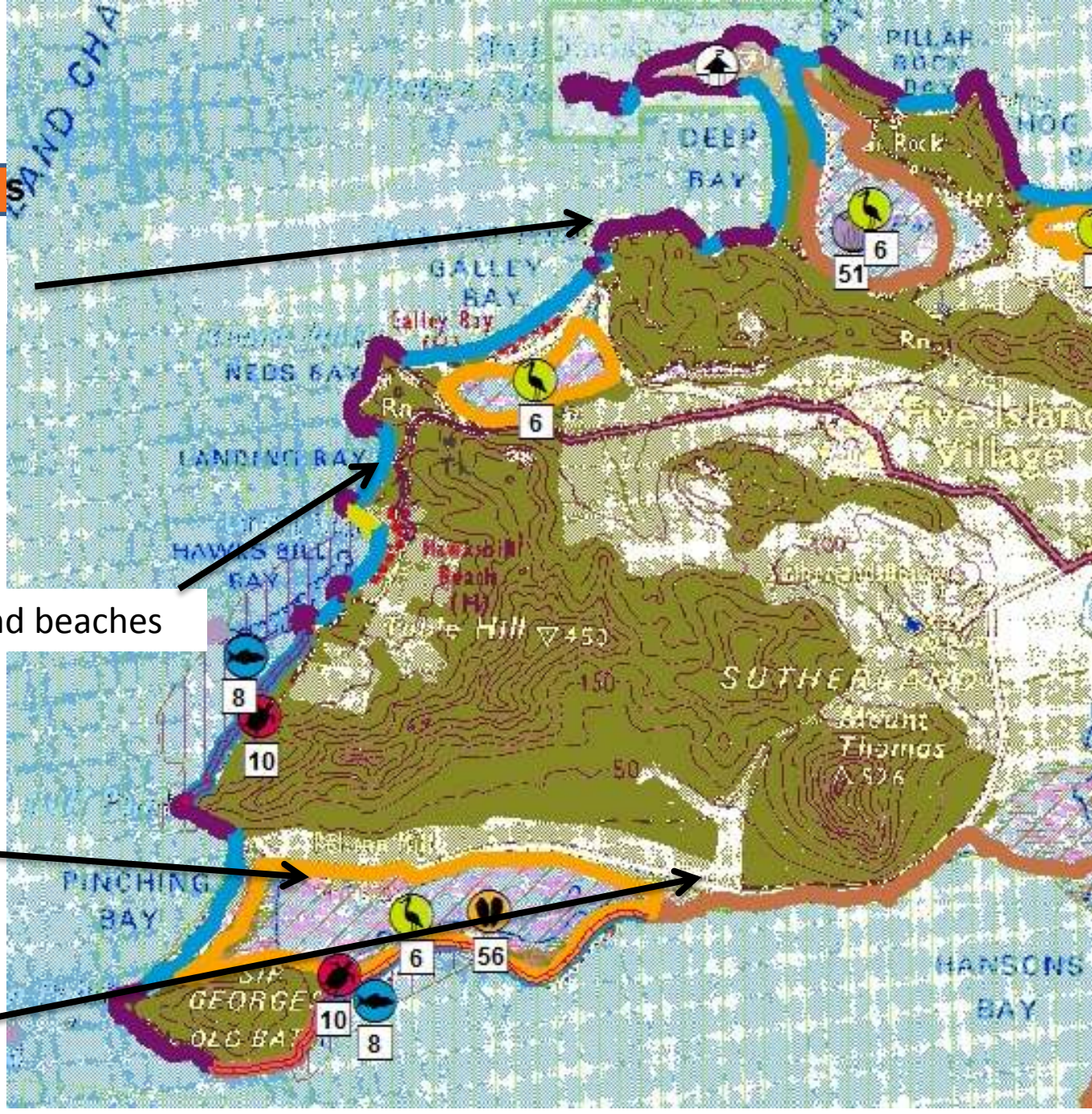
Wave cut rocky platforms

Fine to medium-grained sand beaches

Sheltered tidal flats

Mangroves



GIS-based database on the maritime traffic in the Wider Caribbean region

Purpose of the tool

- ✓ Better knowledge of the maritime traffic in the region
- ✓ Risk assessment tool
  - How many vessels pass close to my coastlines?
  - How many oil tankers, chemical tankers…?
  - Where are the biggest risks of accidents/spills?
  - …
- ✓ Implementation of the Special Area under MARPOL Annex V
- ✓ Support to other initiatives
  - New particularly sensitive areas
  - Projects on the social impact of oil spills
  - Comparison maritime routes vs “marine mammals routes”…

Methodology

Data: Lloyd's MIU, 2007/2008 Ships, ports of departure and arrival, dates

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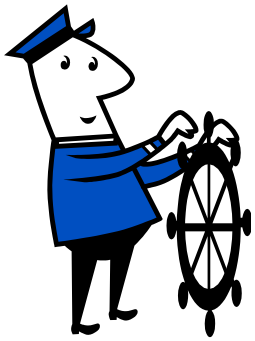
Theoretical computer-based model: rules and restrictions



Where do the vessels really go between ports?

GIS database Online

VOS data: real positions of ships

Validation and Improvement of the database

Methodology

Presentation of the tool

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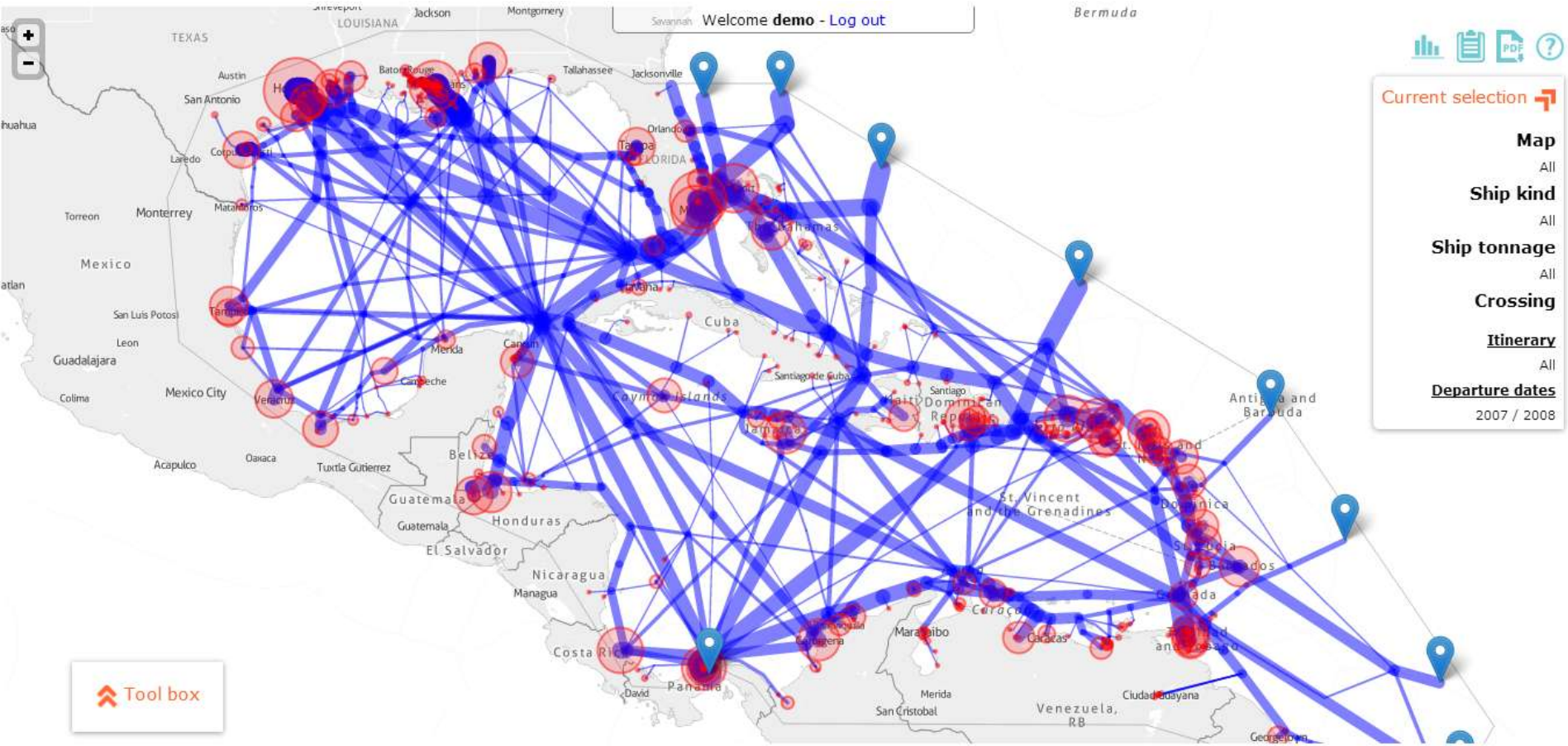

http://cep.unep.org/racrempeitc/maritime-traffic

Presentation of the tool

- ✓Maritime Routes and Traffic Density
- ✓Traffic in Ports
- ✓Oil infrastructures (refineries and terminals)
- ✓Main past oil spills

Presentation of the tool

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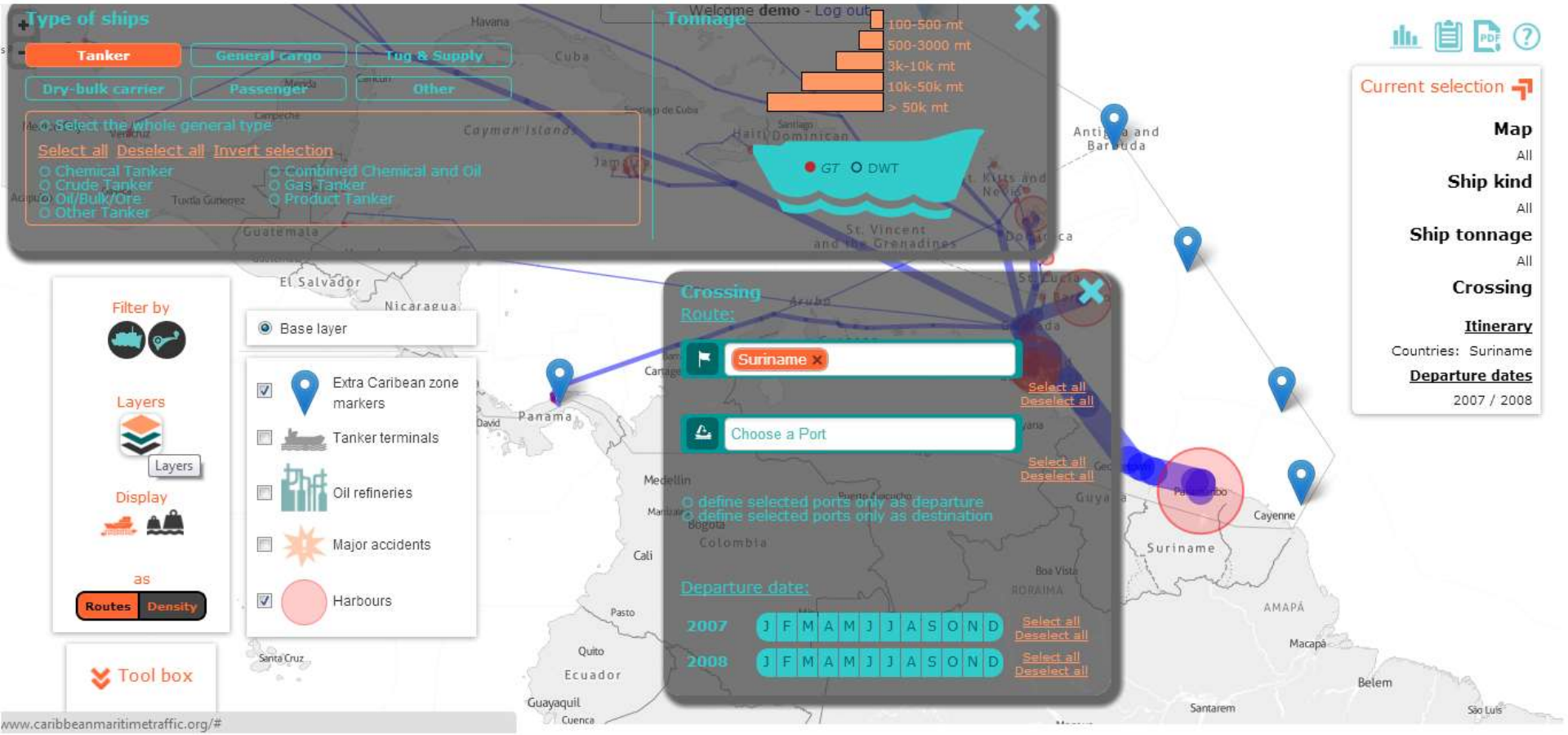
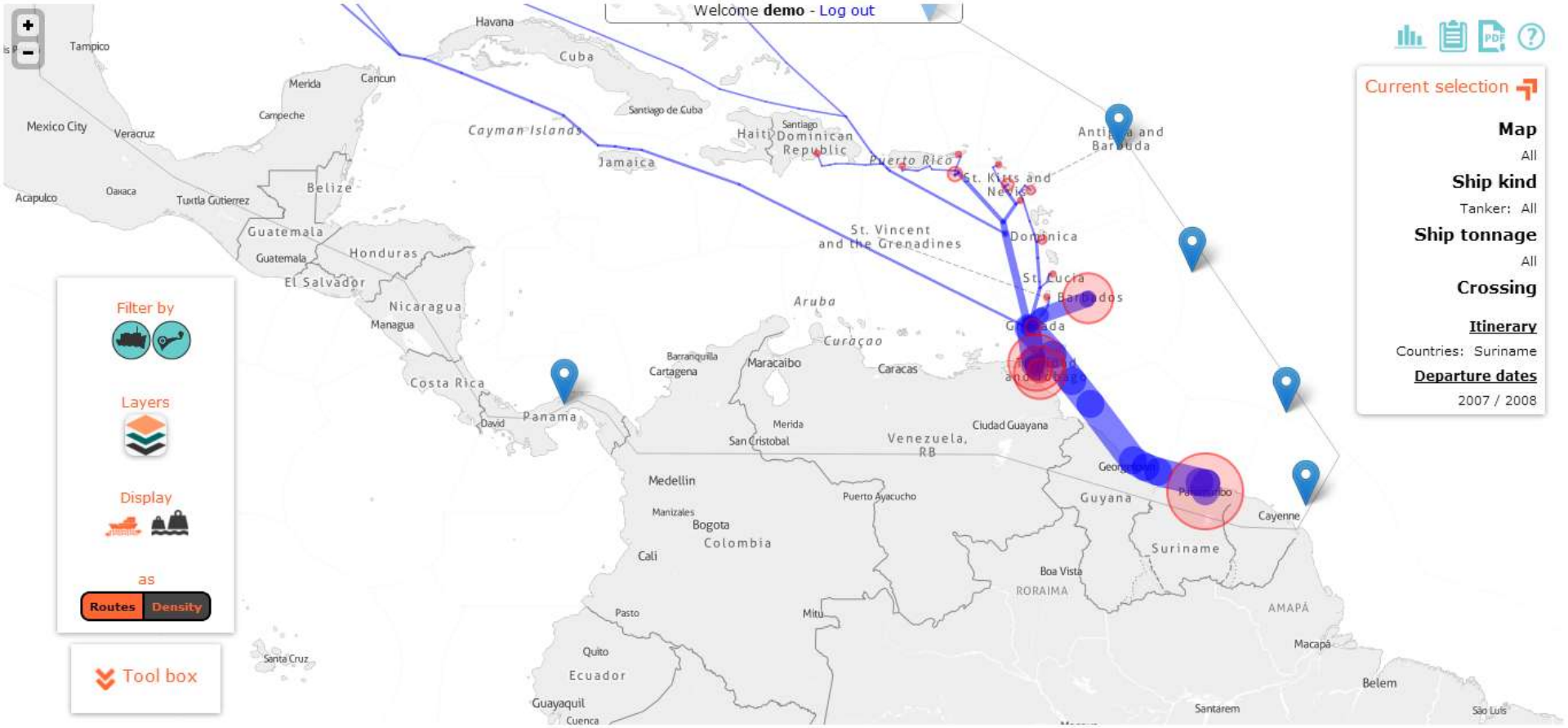


Presentation of the tool



Thank you for your attention

Any questions or comments?