

ICAO - CAPSA

6th CAPSCA Americas Meetings

Panama city, PANAMA

16th – 18th September, 2015.





Welcome to BARBADOS

West Indies

A Replica of CAPSCA

SUN, SAND & SEA





Florida

Miami

Grand Bahama

Great Abaco

Eleuthera

The Bahamas

Key West

Andros Island

Cat Island

San Salvador

Rum Island

Long Island

Somana Cay

Mayaguana

Great Exuma

Crooked Is.

Turks & Caicos

Acklins Is.

Great Inagua

Cayo Largo

Cayo Romano

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

Cayo Sable

North Atlantic Ocean

isla de la Juventud

Jardines de la Reina

Little Cayman

Grand Cayman

Cayman Brac

Cayman Islands

Swan Islands

Jamaica

Ile de la Tortue

Ile de la Gonave

Ile de la Saona

Haiti / Dominican Republic

Puerto Rico

US / British Virgin Islands

Anguilla

Barbuda

Antigua

Guadeloupe

La Basse-terre

Marie Galante

Dominica

Martinique

St Lucia

St Vincent

The Grenadines

Grenada

Barbados

Tobago

Trinidad

Aruba

Curacao

Bonaire

Los Roques

Blanquilla

Isla la Tortuga

Isla de Margarita

Venezuela

Colombia

Panama

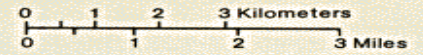
Costa Rica

Guyana

Caribbean Sea

Barbados

- Parish boundary
- Road





BARBADOS
LOW - HILLS - MTS.

 worldatlas

Barbados



BARBADOS

- **Head of State:** HM Queen Elizabeth II,
- Represented by the
- Governor-General Sir Elliott Belgrave GCMG KA
- **Prime Minister:** The Honorable Freundel Jerome Stuart QC MP
- **Minister of Health:** The Honorable John Boyce
- **Chief Medical Officer:** Dr. Joy St. John

- Barbados is a small paradise island.
- Total population is approx. 275,000
- Highest density population in the Americas.
- Total area 430 sq km
- Democratic & elected Government.
- Politically strong.
- Barbados dollar tied to US dollar.
1US\$=2BDS\$.





Capital : Bridgetown
Population: 92,000

BARBADOS

Language: English

Religion(s):

Protestant 67% (Anglican 40%, Pentecostal 8%, Methodist 7%, Roman Catholic 4%, others 12%, (e.g. Jewish, Muslims etc) none 17%.

Main Religious Event: Christmas.

Government:

Barbados is an independent state within the British Commonwealth.

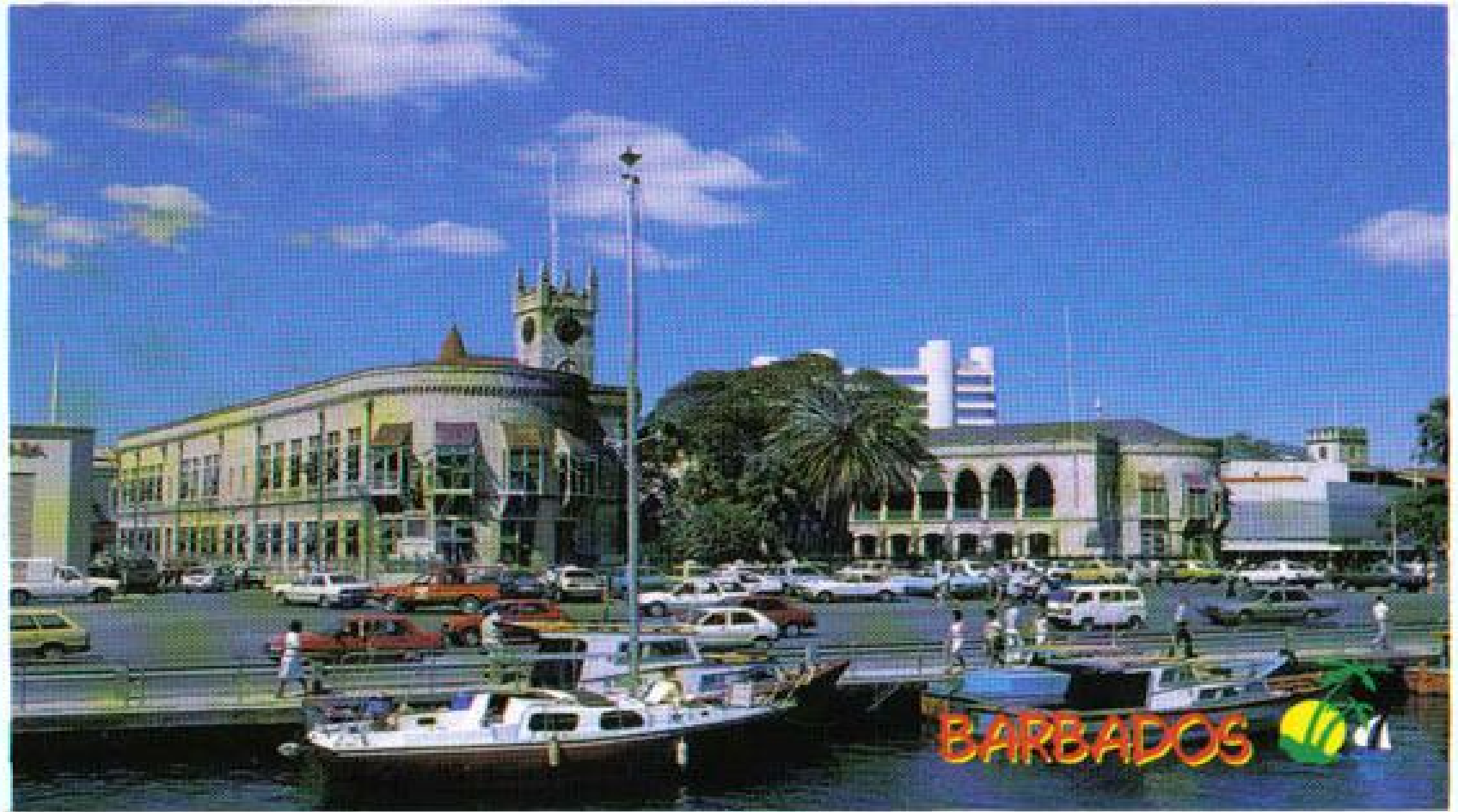
It has a bicameral parliament consisting of a House of Assembly and a Senate.

Executive power is vested in the Cabinet chaired by the Prime Minister.

The legal system is based on Common Law.



Oldest Parliament in The Americas



Geography

- Most of the island is relatively flat.
- Low and gentle hills in the interior, which rises up to 340 metres.
- All coasts has white sandy beaches and turquoise waters.
- Coral reefs surround most of the island.





Accra beach

[c] 2009 Stephen Mendes

<http://beachdesignphoto.com>

ECONOMY

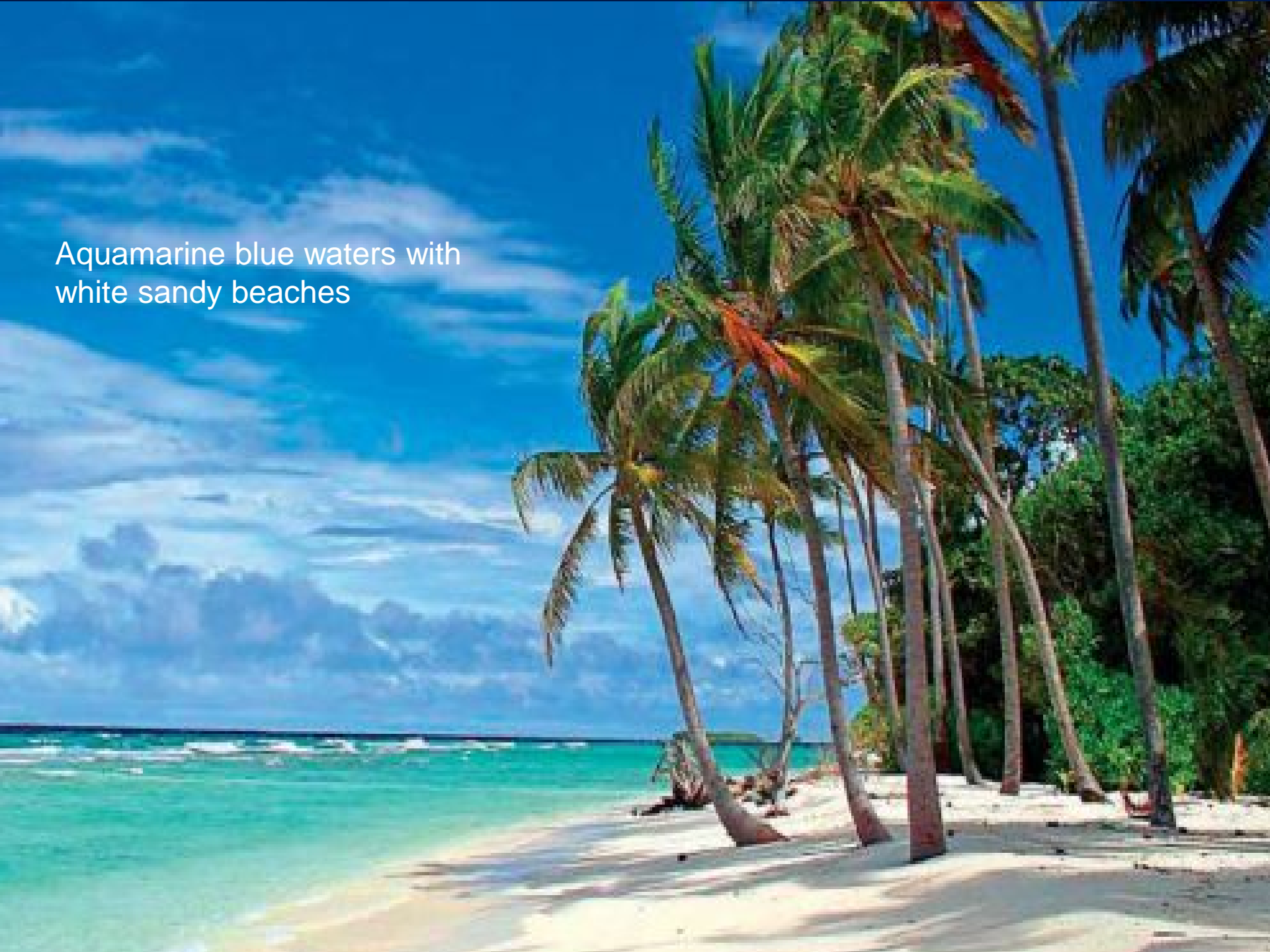
MAINLY TOURISM



Turquoise blue waters



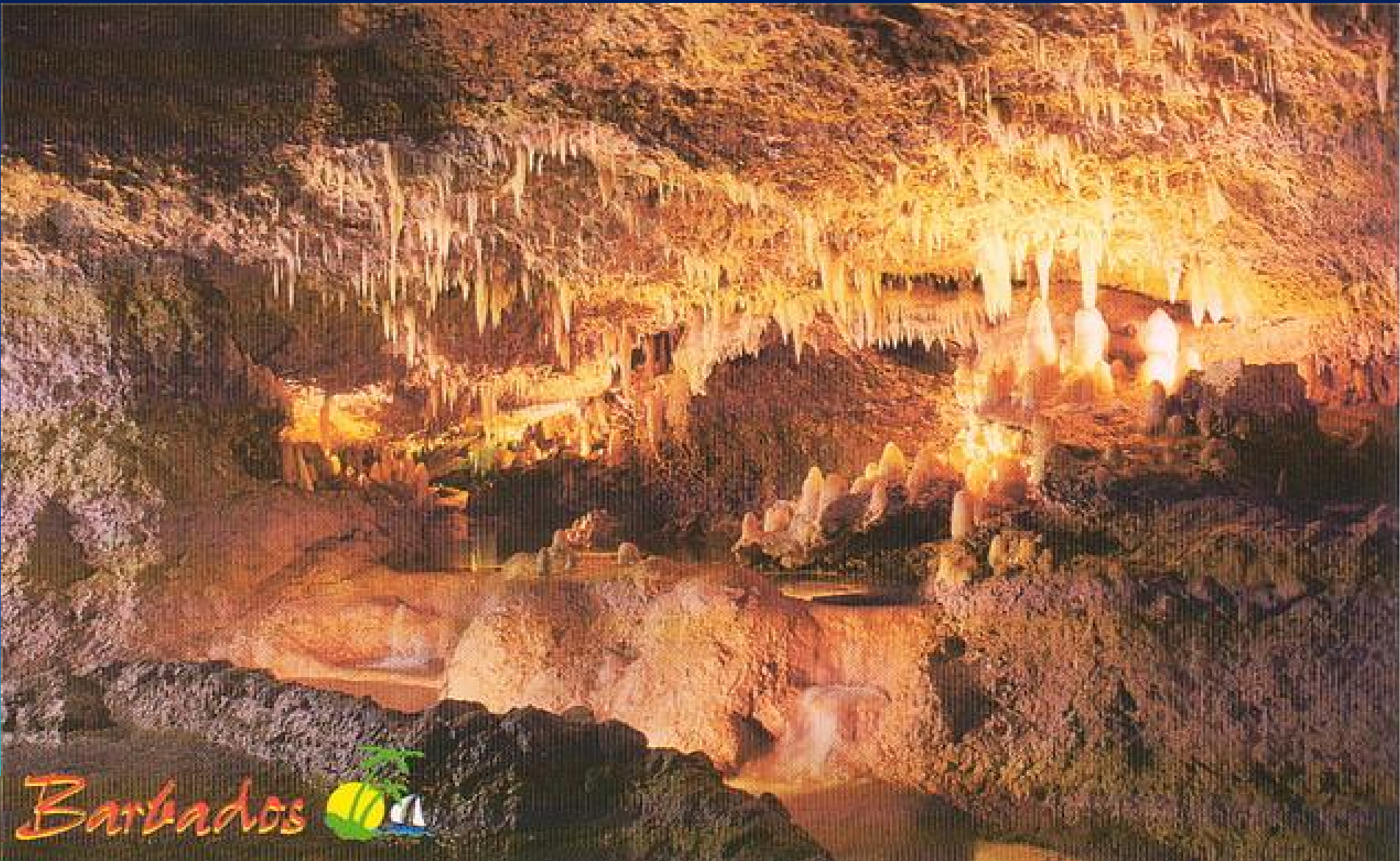
Aquamarine blue waters with
white sandy beaches



Local Cruise



Beautiful Caves



Barbados 



Boardwalk and Esplanade



Check In
Chill Out

Major Public Event

CROP OVER FESTIVAL



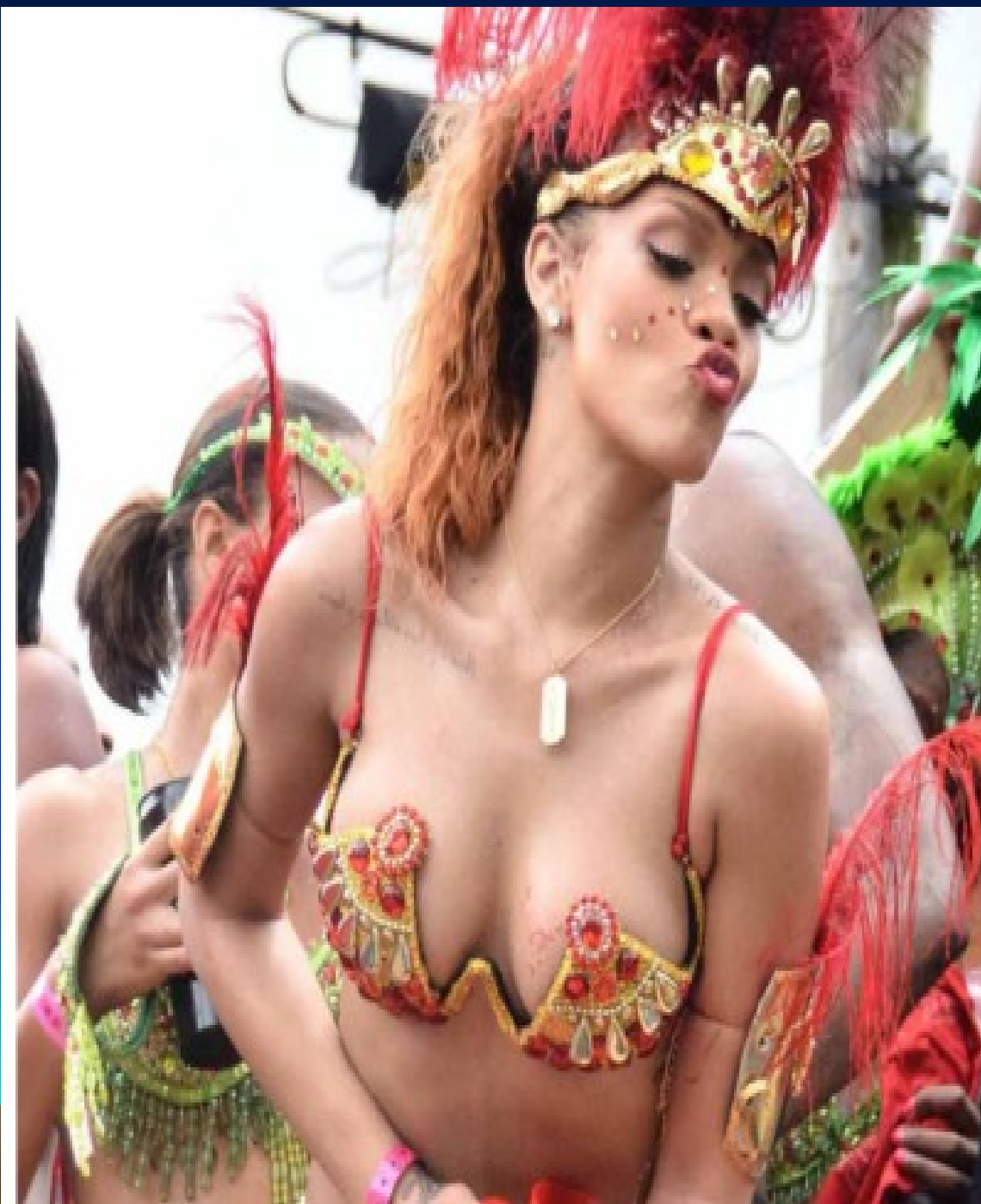


© 2000 Stephen Mendes



[c] 2000 Stephen Mendes

<http://www.stephenmendes.com>



PORT HEALTH IN BARBADOS



VISION

INFECTIOUS DISEASES
FREE

BARBADOS



AIM

TO MAKE OUR BEAUTIFUL COUNTRY, BARBADOS

A HEALTHY, WEALTHY, GODLY AND
DEVELOPED NATION

BY
PREVENTING
INFECTIOUS DISEASES
IN
PORTS
(POINTS OF ENTRY)



BARBADOS

Major Ports : 3

Airport: 1

Seaports: 3



Bridgetown Port



Port St. Charles



Port Ferdinand



AIRPORT

Your first stop in paradise.

- Small Island – Busiest Airport in the Caribbean
- It is a major gateway to the islands of the Eastern Caribbean, including exotic tropical Barbados with high standards of IHR.
- **ICAO – CAPSCA certified Air Port.**
- Direct international flights link the island with North & South America and Europe.
- Cargo flights: All over the world (**Including from Panama**)
- New Air Port - Modern amenities





GRANTLEY ADAMS INTERNATIONAL AIRPORT



past





Present -GAI Airport



Future - (Test Flights)



The Boeing 747-8 taxiing at Grantley Adams International Airport



The Boeing 787-800 taxiing at GAIA

FUNCTIONS – “Replica of CAPSCA”

Implementation of -

- Barbados Quarantine Act
- Enforcement of Barbados Port Health rules and regulations.
- ICAO - CAPSCA
- WHO Guidelines – IHR



CORE CAPACITY – DESIGNATED PORTS POINTS OF ENTRY (PoE)

- BARBADOS QUARANTINE ACT, 1947
COVERS MANY OF ARTICLES IN IHR
- CORE CAPACITY REQUIREMENTS ARE
EXTERNALLY DRIVEN.
- IN ANNEX 1 IHR 2005
- ARTICLES 19,20, 21,23,24,27,34 & 34
- BARBADOS THE QUARANTINE ACT being
revised TO SUIT IHR and ICAO - CAPSCA.
- ICAO- CAPSCA - Annex 6,9,11 and 13

BARBADOS

Action Plan

Based on WHO's seven (7) strategic actions to guide IHR (2005) implementation in Barbados.



Strategy 1

GLOBAL PARTNERSHIP



FOSTER GLOBAL/REGIONAL PARTNERSHIPS

- Barbados has established global partnerships with PAHO/WHO, CDC and CAPSCA.
Attended and hosted several workshops - Regional & International.
Inspection of vessels for the issuance of Ship Sanitation Certificates.
- Assisting neighbouring territories with their port health (Air Port) programmes.
- An out front in the response to the influenza H1NI outbreak, developing a protocol on the cruise ships, Air to Sea passengers which involved vessels mailing their health declarations 24 and 12 hours before arrival in port.



Routine and emergency public health measures and required health documents are necessary to ensure that conveyances and facilities at ports, Air Ports and ground crossing are kept free from sources of infection and are important with regard to the potential for international spread of disease,

IHR (Articles 19-39, Annexes 1, 3, 4, 5, 6, 7, 8, 9). The core capacities required should be implemented by competent authorities at points of entry. States Parties should establish national plans for surveillance and response, considering their activities at designated ports, Air ports and ground crossings. (PAG)



Global Partnership Internal/International

Collaboration & Technical Support -CARICOM

- Veterinary
- Agriculture
- Travel
- Trade
- Education
- Defense



Strategy -2

STRENGTHEN NATIONAL CAPACITY



- Chief Medical Officer : Head
IHR Focal Point,
Port Health.
- Disease surveillance, prevention, control and response systems.-
Coordinator: Senior Medical Officer (N)
(Epidemiologist)
- The Ministry of Health has established a Disaster Management Health Response Team.
Coordinator: Senior Medical Officer (S)
public, private hospitals, Other stake holders and
Ministry of Health.



- Strengthened periodically since 2005 to 2015 during Cricket World Cup. SARS, Pandemic Influenza and EBOLA
- Training: PAHO, Sub regional work shops, CARICOM exercises.
- Evaluated the core capacities necessary for the public health emergencies at the points of entry.
- Protocols revised and modified for emerging and reemerging diseases.



Strategy-2

- Barbados has had several sensitization sessions with local stakeholders on various aspects of the IHR.
- IHR assessment tools have been widely distributed among stakeholders.
- Deadly Infectious Disease (DID) workshops and many live simulation and table top exercises were conducted since 2009 just before the outbreak of influenza A H1N1 in Mexico to EBOLA in West Africa, 2015.

These sessions involved a wide-cross section of stakeholders from both the private and public sectors including disaster management, tourism, international transport & trade, civil aviation, immigration, customs, agriculture & veterinary, police and defence . It was hosted by the Medical Officers of Health of the island

Table top and Live Simulation exercises were conducted before and after epidemics.

During EBOLA Epidemic, Surveillance, Prevention, Control and Response systems were fully activated, during this period it was assessed many times and strengthened where ever identified the gaps and finally it was a great success.



Assessment & Medical Care, Staff and Equipment

Quarantine/Isolation STATIONS

- Bridgetown Port – in operation
 - Airport: Q S in operation
 - Live simulation exercises were done for EBOLA in both ports.
 - Quarantine and Isolation centres were modified accordingly.



IHR implementation at ports, airports and ground crossings

PREVENTION

Containing known public health risks



Routine control of "Sanitary conditions" at points of entry and conveyances

Risk management

EARLY WARNING

Detecting relevant health events



CDC, PAHO, CARPHA
Intergovernmental communication, Inspection, screening, Information and verification

Risk assessment

RESPONSE

Responding to public health emergencies



Support to investigation and contingency plans to adopt control measures

Event management

Conveyances inspection programmes and control measures

Strategy 3

Strengthen public health security in travel and transport:

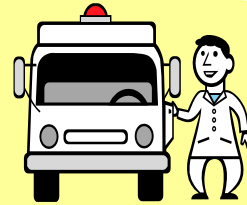
- The risk of international spread of disease is minimized through effective and established permanent public health measures and response capacity at points of entry.
- The regional workshop for health security for travelers and conveyances was held in Barbados for English speaking countries.
- The core capacity tools were placed, assessed & tested and was successful in Barbados.



Core capacity requirements at all times (routine)



(a) Assessment and Medical care, staff & equipment



(b) Equipment & personnel for transport



(e) Trained staff and programme for vector control



(c) Trained personnel for inspection of conveyances

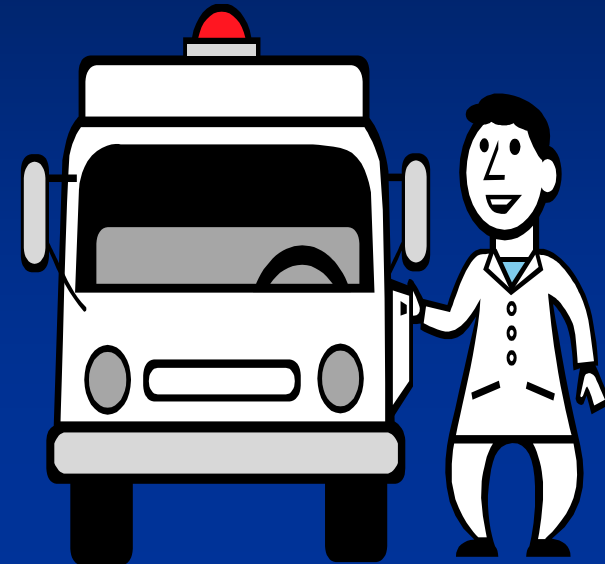


(d) ensure save environment. water, food, waste, wash rooms & other potential risk areas - inspection programmes



Medical Equipment & Transport

- Transport of ill persons by Gov't & Private ambulances.
- G.A.I.Airport Inc: Has a special arrangement for ambulance services.
- EBOLA: Special Training were given to public and private ambulances by Ministry of Health and QEH ambulance services



Con - Strategy 3

- Event Management System was adapted for use in the National Focal Points and operational guidelines were prepared and distributed to PoE, and other major departments and relevant stake holders.



Assessment, Care, Staff and Equipment

Infectious diseases e.g. SARS, Pandemic Influenza, MERS Co-V, H7N9 and EBOLA

- Specially trained staff in designated places (Entry/ Exit, Cargo and Animal Importation Places).
- Transport vehicles are disinfected.
- Patients are reviewed by Port Health, Polyclinic and Queen Elizabeth Hospital staff.
- Cleaning and disinfected protocols were tested. (PAHO/WHO, CDC guidelines)
- Protocols, SPO's are developed, tested and modified to suit our condition and in place.

Ensure save environment: water, food, waste, wash rooms & other potential risk areas - inspection programmes

INSPECTION PROGRAMMES:

- Water samples go to the laboratory for analysis.
- Regular meetings with potable water stakeholders e.g. Barbados Water Authority, (BWA) and at points of entry.
- Regular food handling establishment inspection programme including Barbados Flight Kitchen. (BFK).
- Daily Inspection Programme for PoE by the Ministry of Health and stakeholders.



Trained staff and Programme for Vector Control

- Trained staff provide vertical programmes for vector control
- An integrated pest management programme is being planned with EHS Vector Control for PoE including trapping to identify various vectors present at PoE.
- Birds in Bridgetown Port

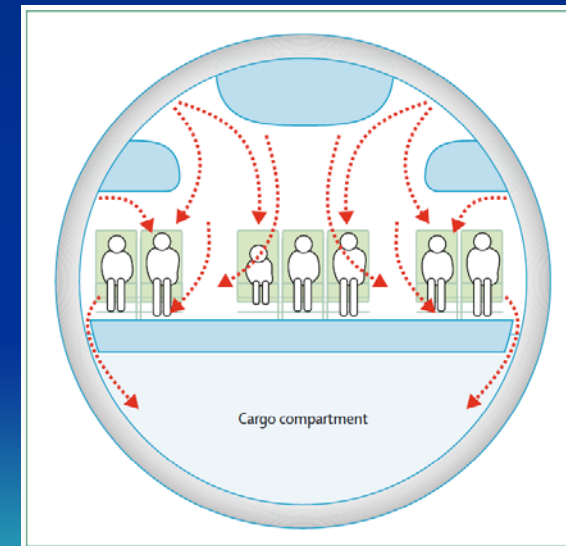


Figure 1: Air circulation pattern in typical airline passenger cabin

Strategy 4

Strengthen WHO global alert and response systems

The Ministry of Health has established global alert and response systems through PAHO's regional office and CARICOM Health Desk.

Chief Medical Officer and Senior Medical Officers of Health and Medical officers of Health are updated periodically.

Other relevant medical personnel and stake holders were sensitized periodically



An Alert Responsive team has been established in the Ministry of Health. The Senior Medical Officer of Health (N) and her team is responsible

In an event, the Alert management team holds daily sessions to review and assess the risk/s. If it is of significance, alert notice will be released

Risks assessment and response coordination of public health emergencies of international concern are updated periodically to the concerned departments.



Strategy - 4

Ministry of Health has established a local net work and data entry system.

The risk assessment, decisions, and interventions will be carried out accordingly.

All Port Health departments were connected to modern electronic facilities. (e.g. High speed internet and tele-communications devices)



STRATEGY 5

Strengthen the management of specific risks:

- Systematic international and national management of the risks known to threaten international health security.
- Influenza, meningitis, yellow fever, SARS, poliomyelitis and food contamination, MERS Co-V, H7N9 and EBOLA risk managements were strengthened.
- Chemical and radioactive substances risk managements activities are on the way with concerned stake holders.



Strategy – 5

Strengthen the management of specific risk.

- Barbados established National and International management of risks which threaten international security. e.g. H1N1 pandemic.
- Epidemiology and risk assessment and intervention management team has been established during the pandemic season and recently with EBOLA epidemic season.
- A special guidelines and protocols were prepared for port Health during Ebola Hemorrhagic disease..



CLEANING AND DISINFECTION – AFTER AN INFECTIOUS DISEASE CASE

- Contaminated reusable patient care equipment should be placed in bio-hazard bags and labeled for cleaning and disinfection at the AMT service of medical equipment section.
- Reusable equipment should be cleaned and disinfected according to manufacturer's instructions.
- Following completion of cleaning tasks, including cleaning and disinfection of reusable equipment, cleaning personnel should carefully remove and dispose of personal protective gear and wash hands thoroughly with soap and water or an alcohol-based hand rub.

Management of Specific Risks

Specific risks assessment will be done by the Port Health Department

For further medical assistance , the passengers will be sent to Queen Elizabeth Hospital (QEH), private hospitals, Primary Health Care Institutions (Polyclinics) or General physicians.

Specific Risks assessment protocols are developed and are in place by Health Promotion Unit.



Strategy 6

Legal Issues and Monitoring

- Barbados is well aware of the legal mechanisms set out by the WHO.
- Sustain rights, obligations and procedures
- Ministry of Health Officials attended the first workshop of legal advisers from English-speaking Caribbean countries was held in Barbados in 2009.
- The Ministry officials determined the priority areas WHO guidelines and decided to accelerate the amendment process with the Attorney General's office and PAHO soon.



LEGAL ISSUES & MONITORING

Revision of Legislation

1. Ministry of Environmental Protection Department(EPD)
 2. Ministry of Health
- Best Environmental Protection.
 - Implement best practices for food Industry & imported foods.
 - Guarantee human rights, Ship Sanitation Certificate programme & other aspects of IHR and CAPSCA



Good Environment & Human Rights



Beach WATER SPORTS
Restaurant & Night Club



Called by many *"the most beautiful spot on earth"*
with the most dramatic setting in the Caribbean



**Spectacular powder-soft white sand that can look pink in certain lights, and endless ocean views. CRANE - It is one of top ten beaches of the world-
"Life Styles of the Rich and Famous"**

STRATEGY 6

Sustain rights, obligations and procedures

- New legal mechanisms as set out in the Regulations which are fully developed and upheld; all professionals involved in implementing IHR (2005) have a clear understanding of, and sustain, the new rights, obligations and procedures laid out in the Regulations.

STRATEGY 7

Conduct studies and monitor progress:

- In Barbados, indicators are identified and collected regularly to monitor and evaluate IHR (2005) and ICAO - CAPSCA implementation.
- Port Health Reports are delivered to the Ministry of Health periodically.
- The Ministry of Health reports on progress to the World Health Assembly.

Radio Nuclear – Implementation on the way



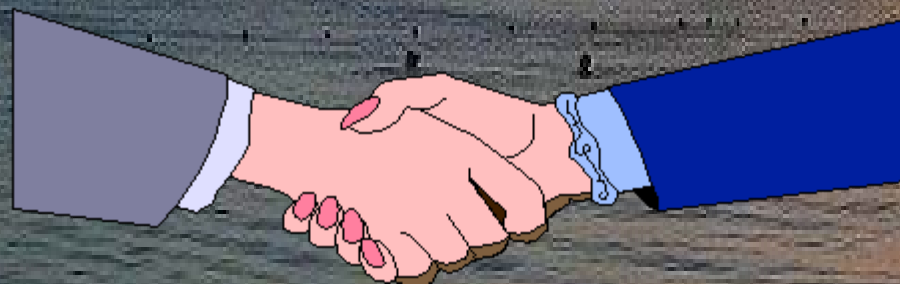
REST & RELAXATION in Comfort

BARBADOS





THANK YOU



**Dr. R. A. MANOHAR SINGH
MEDICAL OFFICER OF HEALTH -PORTS
BARBADOS.
WEST INDIES**