

VI Meeting on Public-Private Partnership for Disaster Risk Reduction in LAC, 7-8 December 2017

Tourism Sector and DRM in Jamaica:

Disaster Impacts and Strategic Actions



Horace Glaze
ODPEM
December 7, 2017



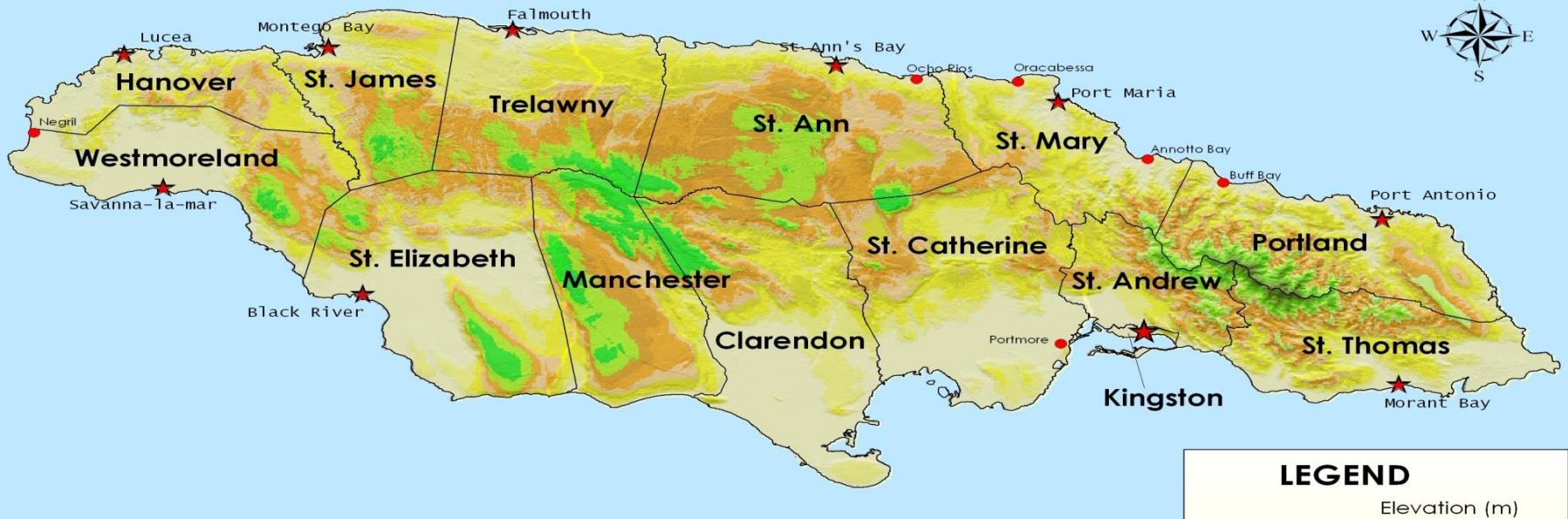
Outline

1. Disaster Threat/Vulnerability
2. Tourism and Jamaica
3. Disaster Risk Management (DRM) in Jamaica
4. Disaster Impacts on Tourism Sector
5. Sector DRM Approach and Initiatives
6. Way Forward

Santo Domingo , Dominican Republic. December 07 and 08, 2017.

NATURAL

Floods, Hurricanes, Storm surges, Earthquakes, Landslides
Droughts



TECHNOLOGICAL

– Hazardous Material release, Epidemics, Plant and animal diseases, **Fires**

BUSINESS CONTINUITY AND PREVENTION PLANS FOR THE TOURISM SECTOR

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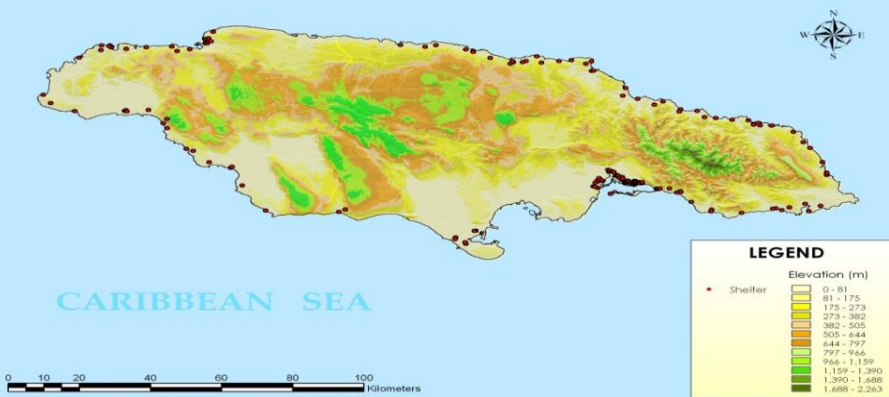
MAJOR TOWNS AND ELEVATION



HOTELS, PORTS AND AIRPORTS



SHELTERS WITHIN 2km OF THE COAST



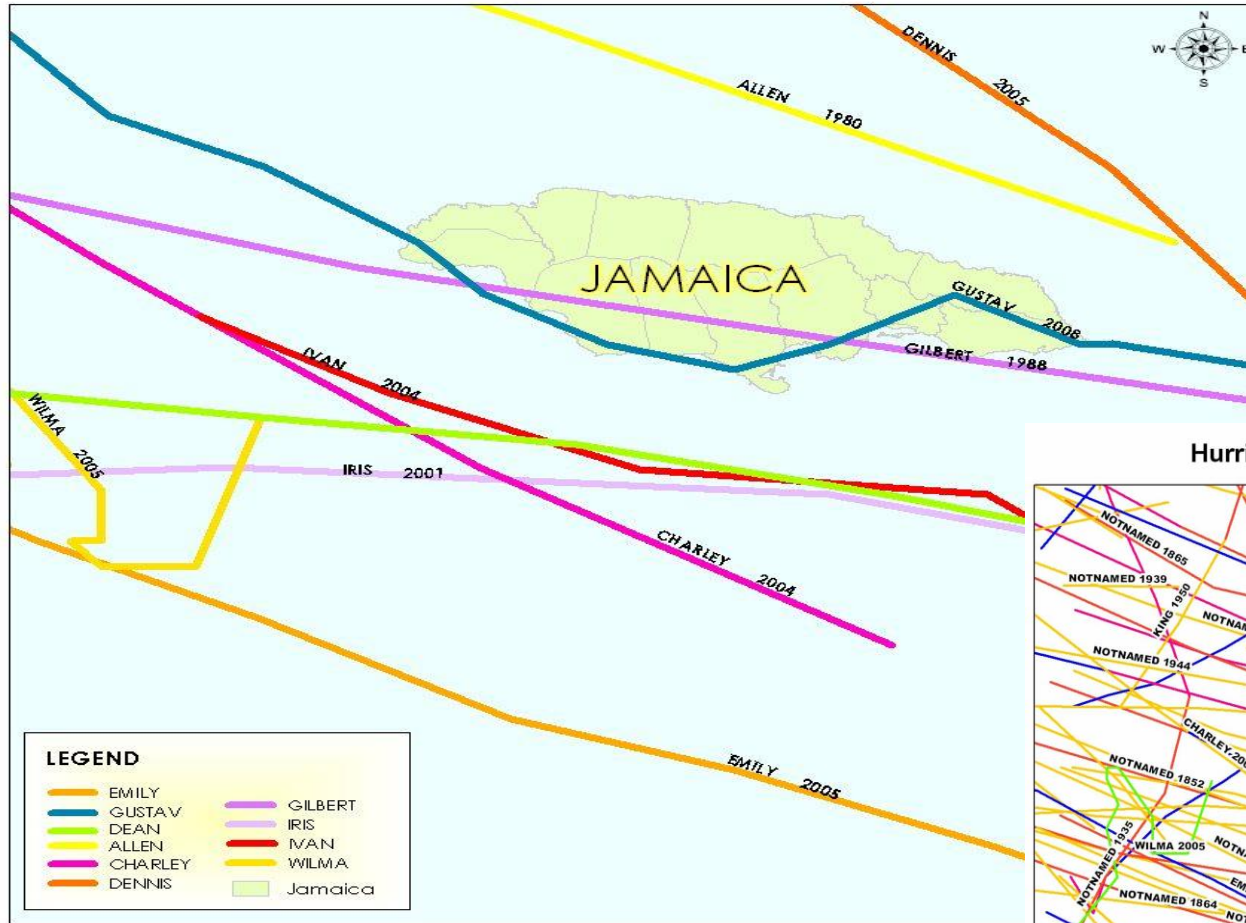
DEVELOPMENT PATTERNS ALONG THE COAST

BUSINESS CONTINUITY AND PREVENTION PLANS FOR THE TOURISM SECTOR

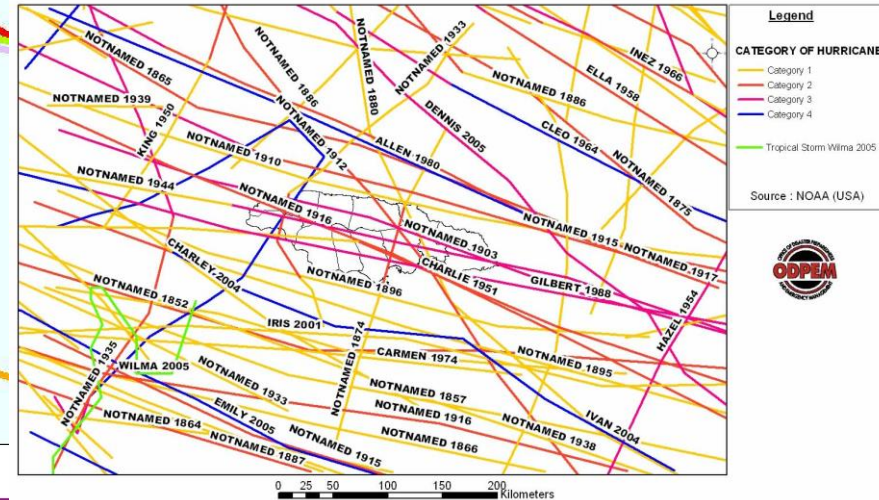
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HURRICANES AFFECTING JAMAICA 1980 - 2008



Hurricane Paths from 1856-2005 (Jamaica)



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IMPACT OF DISASTERS ON JAMAICA

YEAR	EVENTS	TOTAL DAMAGE J\$
1988	Gilbert	908,000,000,000.00
1998	Portland 1998 Floods	339,230,323
2000	December 2000 - January 2001 Rains	198,256,510.00
2001	October 29 - November 5 Rains	2,229,298,962.26
2002	May/June Rains	203,347,750.00
2002	Tropical Storms Lili and Isidore	840,394,883.00
2003	May/June Rains	203,347,750.00
2004	Hurricane Charley	248,912,460.00
2004	Hurricane Ivan	35,900,000,000.00
2005	Hurricanes Dennis & Emily	5,976,910,000.00
2005	Hurricane Wilma	3,419,202,845.40
2006	Port Maria Rains	48,862,500.00
2007	Hurricane Dean	23,053,920,000.00
2008	Tropical Storm Gustav	15,159,460,000.00
	TOTAL	1,016,394,646,200.66

The table represents the summary of damage costs for major events affecting Jamaica over 10yrs. The damage totals J \$1, 016, 394, 646, 200.66

Impact on Jamaica

1. Hurricane Gilbert 1988 - \$14 billion in damages (total)
2. Hurricane Ivan 2004 - \$11.1 billion (Housing Sector)
3. Hurricane Dean 2007 - \$ 26 billion (total)
4. T.S Gustav 2008 - \$15.5 billion (total and 2% of nominal GDP in 2007)
5. Hurricane Sandy 2012 - \$9.7 billion (17,198 households sustaining damages): estimated replacement of \$4 billion for Sector

Tourism contributes (~15%) to Jamaica's GDP

Segments

- ❖ Accommodation – 50%
- ❖ Food & Beverages – 4%
- ❖ Passenger Transport – 16%
- ❖ Rental Services (Transport & Equipment) – 2.5%
- ❖ Recreational Services – 10.1%
- ❖ Sports and Culture – 6.5%

Tourism in Jamaica



In 2014:

US \$2.2 billion earned

3.5 million visitors

**Most from the US, Europe
& Canada**

35,166 directly employed

Average stay: 8.7 nights

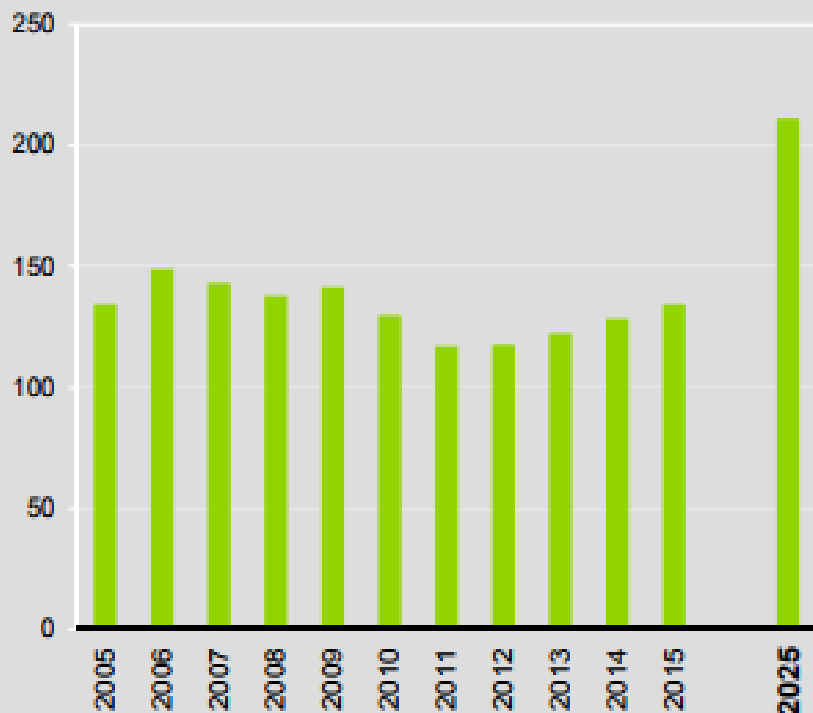
Source: The Jamaica Tourist Board



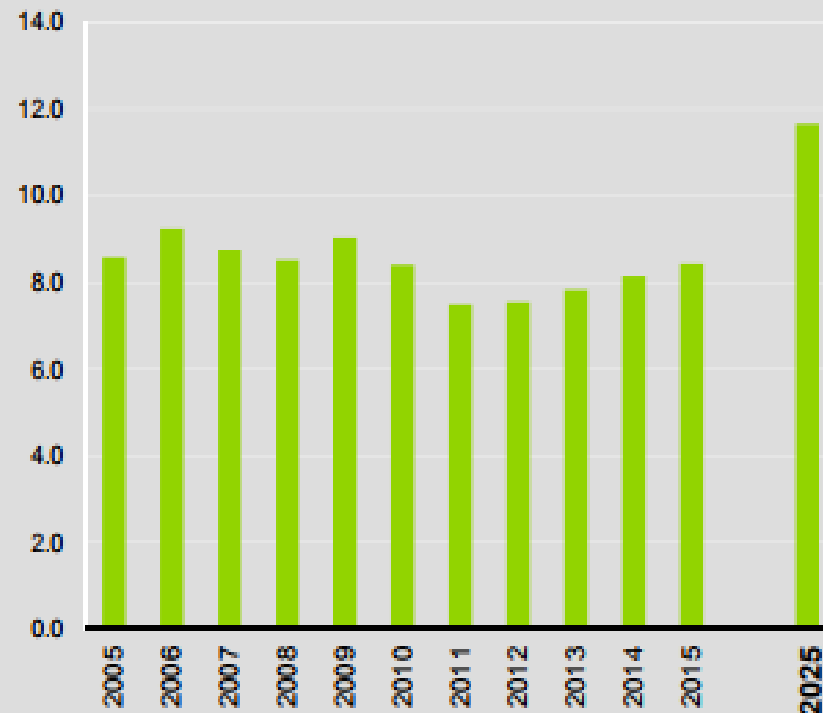
Tourism to GDP

JAMAICA: DIRECT CONTRIBUTION OF TRAVEL & TOURISM TO GDP

Constant 2014 JMDbn



% of whole economy GDP



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Impact of Climate Change on Business

Agriculture - 3.1 billion dollars a year in losses after 2020. Yields will fall 25 percent by 2050.

Ex – Reduced Coffee Production in Colombia

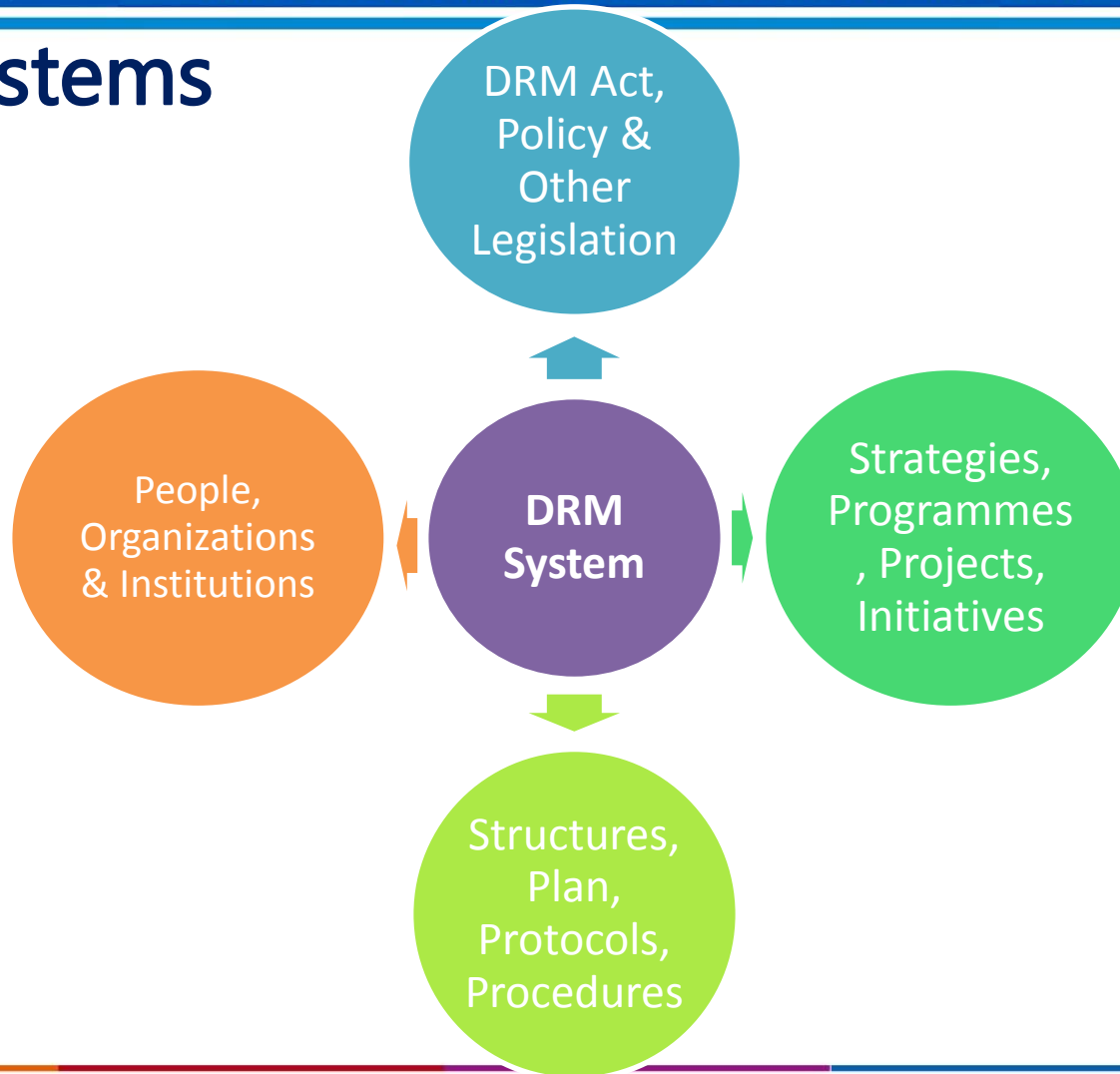
Tourism - Sea level rise of 1 meter - 266 out of 906 tourism resorts at risk

US\$ 1,430 million per year losses in tourism expenditure in the Caribbean

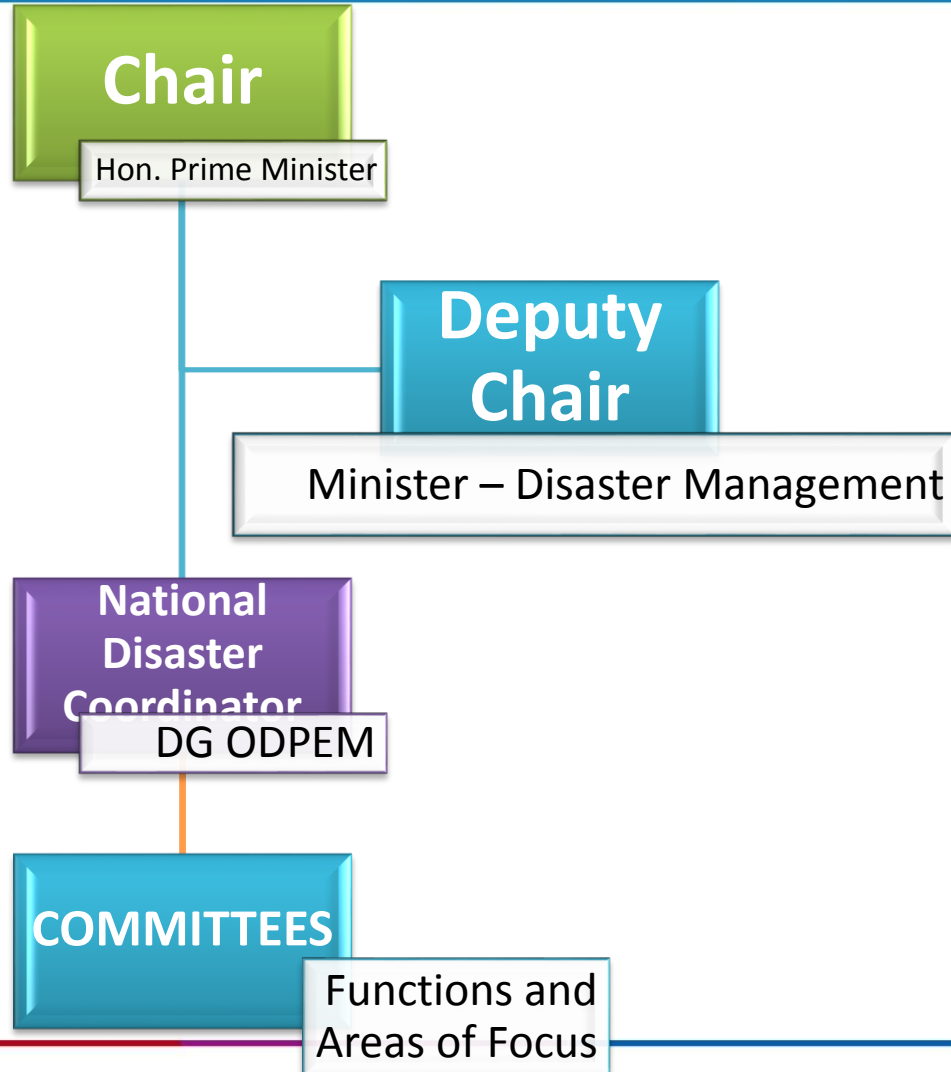


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DRM Systems



NDRMC



NDRMC Environment



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STANDING COMMITTEES OF COUNCIL



Prevention & Mitigation
(Chair – ODPEM)

Preparedness & Emergency Operations
(Chair – JFB)

Humanitarian
(Chair – MLSS)

Emergency Health Planning
(Chair – MOH)

Public Education & Information
(Chair – JIS)

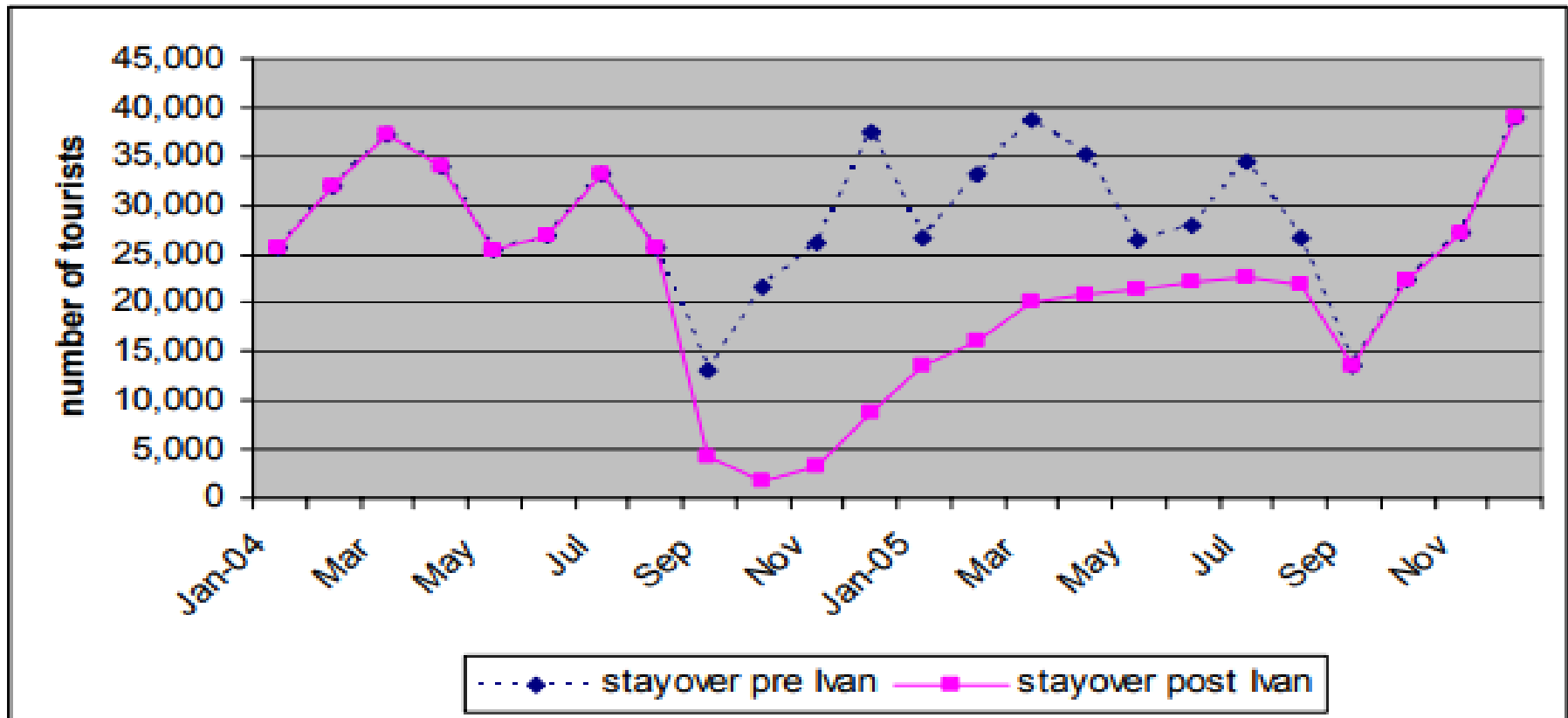
Recovery Planning
(Chair – PIOJ)

Finance & Administration
(Chair – MOFPS)

IMPACT ON SECTOR & STRATEGIC ACTIONS BEING TAKEN

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IMPACT OF HURRICANE IVAN ON STAY-OVER VISITOR ARRIVALS IN 2004



Source: ECLAC.

Table 3. An Analysis of the Factors Contributing to the Vulnerability of Caribbean States

Country name

NATURAL HAZARD EXPOSURE
(based information from WMO, 2011)

Country name	Hurricane/Tropical Cyclone	Strong Winds	Storm Surges	Coastal Flooding	Flash Flooding	River Flooding	Land/mud Slides	Heavy Rains	Droughts	Thunderstorms/Lightening	Earthquakes	Volcanic Eruptions	Tsunamis
ANTIGUA & BARBUDA	S	S	S	S	S	O		S	S	P	P	I	S
BAHAMAS	S	S	S	S	P				P	P	P		
BARBADOS	S	S	S	S	S		S		P	P	S	I	S
BELIZE	S	P	S	S	S	S	P		P	P	S		
CUBA	S	P	P	P	P	P	P		S	P	S		
DOMINICA	S	P	P	S	S	S	S		S	P	P	P	
DOMINICAN REPUBLIC	S	S	S	S	S	S	S	S	P	P	S		
GRENADA	S	S	S	S	S	P	S	S	S	P	P	I	
GUYANA	O	P	P	S	P	S	P	S	S	P	S	O	S
HAITI	S	S	P	P	S	P	S	S	S	P	S		
JAMAICA	S	S	S	S	S	S	S	S	S	P	S		
ST KITTS AND NEVIS	S	P	S	P	P	P	P	S	P	P	P	I	
ST LUCIA	S	P	P	S	P	S	S		S	P	S	I	S
ST VINCENT AND THE GRENADINES	S	S	S	S	S	P	P		P	S	P	I	S
SURINAME	P	P	P	P	P	S	P	S	P	P	P		
TRINIDAD & TOBAGO	O	P	P	P	S	P	P		P	P	S	P	

Table 1: Analysis of Country-level Exposure to Specific natural hazards

(S= - significant, P - occurs; I - indirect).

Source: (Granvorka et al., 2016)

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Nov. 2017 Rains affected Montego Bay



Rains affected Major Hotel

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MAJOR TOURIST DISTRICT 2010 TS Nicole:

Flooding in Savanna la mar – Westmoreland (Negril)

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**Tropical Storm Gustav
2008 - affected
Transportation to the
NMIA Kingston Airport
and surrounding
communities**

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**PARISH
CAPITAL Port
Maria 2011
Flood Rains:**

**Flooding –
Coastline
affected**

Strategic Actions

**Integration of DRM Actions in Strategic Business Plan of the
Tourism Ministry**

DRM Act 2015

**Community Tourism Policy & Action Plan
2015**

Climate Change Policy and Action Plan 2013

Strengthening Resilience of the Tourism Sector in Jamaica

Since 2006, the Ministry of Tourism has been partnering with the Disaster Management Office to mainstream DRM and build resilience to multi-hazards in the Tourism sector.

In 2007, the Tourism Emergency Operations Centre (TEOC) was established as the official source of information and point of communication for official reports and inquiries for the tourism sector through the National Emergency Operations Centre (NEOC)

In 2008, the Ministry established the Tourism Emergency Management Committee (TEMC) which is a collaborative, public-private partnership involving the Ministry, the tourism industry, and disaster management agencies to provide centralized coordination and control of disaster response within the tourism industry.

In 2013, with support from CDEMA through an IDB funded initiative, the National Tourism DRM and CCA Strategy was developed to address the elements of Mitigation, Preparedness, Response and Recovery in the Tourism Sector as a model for other CDEMA Participating States.

Current Strategic Actions 2018-2021



- 1. DRM Training and Capacity Building Programme**
- 2. Strengthen the Emergency Communication System in the Tourism Sector**
- 3. Preparation of Comprehensive Disaster Risk Management Plans for Tourism Resort Areas**
- 4. Disaster Simulations and Drills**
- 5. Strategic Partners for institutional, capacity building and risk assessment - National Disaster Office (ODPEM), Climate Change Division and Local Government (Municipal Corporations)**

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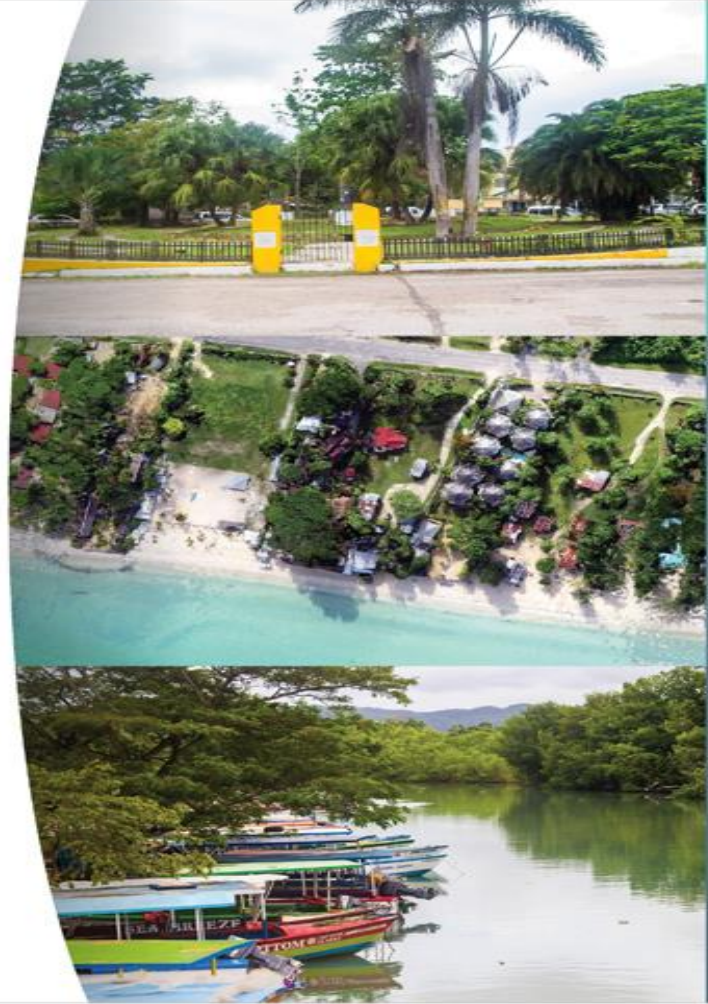
 BOOKS



GOJ/Adaptation Fund Programme
Building the Resilience of the Agriculture Sector and Coastal Areas
BREAKING THE TIDE. RENEWING THE LAND

CLIMATE RISK ATLAS

of Coastal Hazards & Risk in Negril, Jamaica



Santo Domingo , Dominican Republic. December 07 and 08, 2017.

**THE PROJECT REPORT
EARTHQUAKE AND TSUNAMI SIMEX
OCHO RIOS RESORT AREA
OCTOBER 7, 2015**

FOR

**ORRA Emergency Operation Centres
Jewel Dunn's River Beach Resort & Spa Hotel
Jewel Runaway Bay Beach & Golf Resort
Grand Bahia Principe Jamaica
The Cardiff Hotel & Spa
Mystic Ridge Resort**

**A Project Coordinated by the
MINISTRY OF TOURISM AND ENTERTAINMENT
in association with
THE ODPEM
and sponsored by the
TOURISM ENHANCEMENT FUND**



MINISTRY OF TOURISM & ENTERTAINMENT



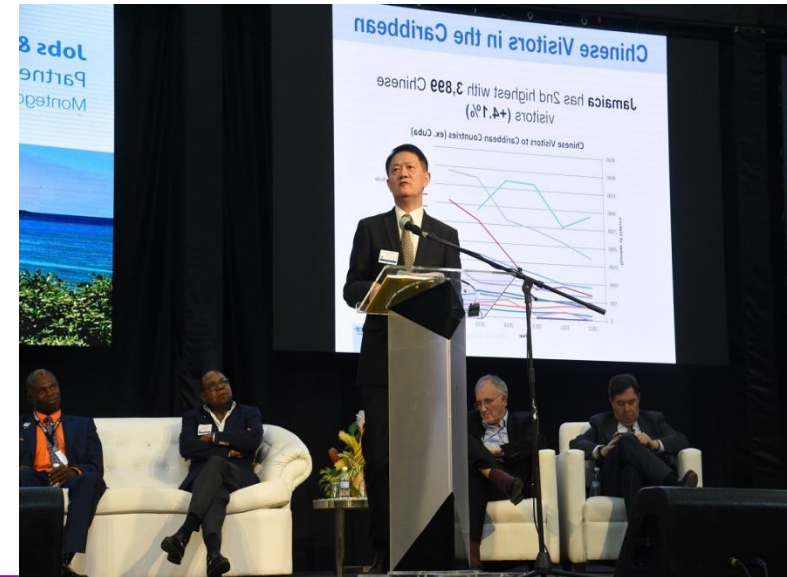
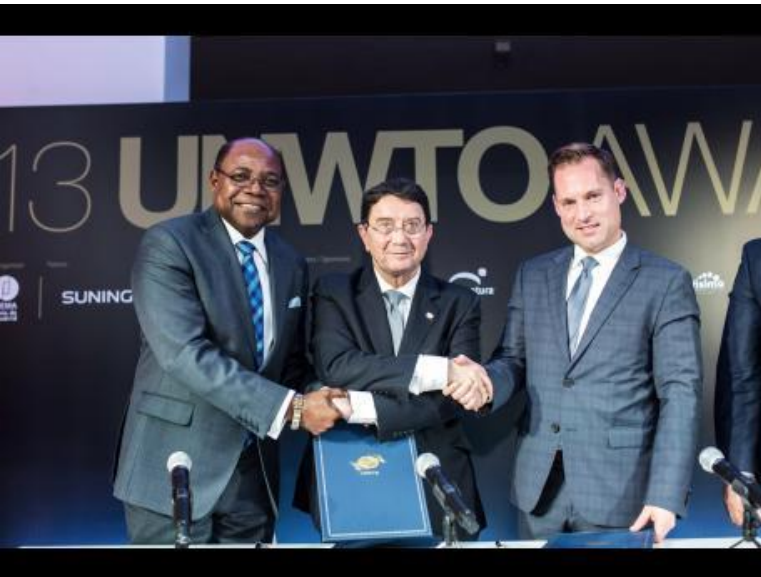
TOURISM EMERGENCY OPERATIONS CENTRE (TEOC) MANAGEMENT HANDBOOK

Key Concepts and Operating Procedures

March 2012



INSIGHTFUL UNWTO CONFERENCE 2017 MONTEGO BAY, JAMAICA



UNWTO Conference 2017 Montego Bay, Jamaica

- The Montego Bay Declaration on the occasion of the International Year of Sustainable Tourism for Development 2017
- Building on the legacy of the International Year of Sustainable Tourism for Development 2017 and with the objective of setting a common action plan towards 2030, declare the following:
 - 9, 13, & 15

The Montego Bay Declaration

9. Governments, the UN system, global and regional financial institutions and the private sector shall cooperate to promote safe, secure and seamless travel and build resilience for tourism by advancing crisis preparedness and management capabilities as well as the full integration of tourism in emergency structures.

The Montego Bay Declaration

13. Governments, private sector, donors and the international and regional organizations shall support the development of a blue economy considering the specificities and vulnerabilities of Islands States in terms of natural resources, impact of climate change and extreme weather events as well as the high reliance of tourism on the ocean for marine activities, transportation, coastal protection and resilience.

The Montego Bay Declaration

15. Governments, private sector, donors and the international and regional organizations shall support the establishment of a Global Tourism Resilience Centre in the Caribbean, including a Sustainable Tourism Observatory, to assist destinations' preparedness, management and recovery of crises which impact tourism and threaten economies and livelihoods.

Honourable Prime Minister of Jamaica - UNWTO Conference 2017

Prime Minister Holness suggested to the over 1400 delegates who had registered by day two of the three-day conference that tourism-dependent states should give critical consideration to how the industry's product must adapt and evolve to reflect the new realities of today. Those considerations should include: climate change; evolving tourist preferences, in particular, how to treat with the new millennials; terrorism, travel and safety security concerns; as well as new and emerging markets, products and technology.

<https://eturbonews.com/171725/jamaica-pm-holness-commits-local-tourism-development>

WAY FORWARD for Tourism Sector



- ✓ Caribbean Tourism Interest full buy-in and support for the CDM Strategy 2014-2024 and its Tourism Sector Priority Actions
- ✓ Strategic alignment and partnerships SDGs, DRR, Climate Change
- ✓ Better understanding of risk and vulnerabilities
- ✓ Institutionalization and mainstreaming of CC and DRR considerations/strategies
- ✓ Investments in risk reduction/mitigation, preparedness and risk transfer

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