

We must be

# ready responsive resilient

to extreme weather and climate events.



# What does it mean to be weather and climate ready?

### WCRNs:

- Evolve their weather forecasting to stress potential impacts
- Communicate impacts clearly to help people make smart decisions
- Engage community partners to spread the word



## What steps is Barbados taking?

- BMS and CIMH are integrating new science and technology into National Weather Service operations to improve forecasts
- BMS and DEM are improving their operations
- Forecasts now stress potential impacts to better support decision-making

- Primary hazards, their impacts, and appropriate responses have been summarized in risk, impact and response matrices
- The Common Alerting Protocol is being implemented to allow consistent alert messaging simultaneously across a variety of media

Our WCRNs partners:

Primary funding partner



**Key Barbados partners** 







Other partners







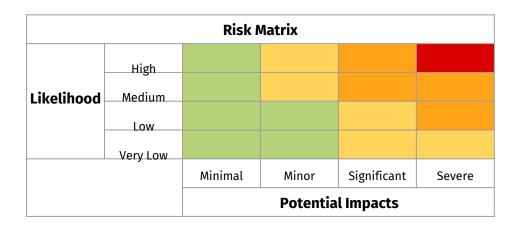






# New risk, impact and response matrices

Created for Barbados' primary hazards: High winds, severe convection, heavy rain events, tropical cyclones, tsunamis, high temperatures, drought, and volcanic ash



Risk Level	Response	
High	Take Action	
Medium	Be Prepared	
Low	Be Aware	
Very Low	No Action	

Response Matrix					
Very Low Risk	Low Risk	Medium Risk	High Risk		
Message/response	Message/response	Message/response	Message/response		

### Event preparation example: Impact matrix

#### **Heavy Rainfall**

	Minimal Impacts	Moderate Impacts	Significant Impacts	Severe Impacts
Transportation	Wet roads and higher likelihood of accidents  Localized disruption to traffic  Limited impact to traffic signals	Localized pooling and flooding of roads  Occasional accidents and associated disruptions; increased travel times  Occasional traffic signal outage/flashing and traffic congestion  Minor public transportation disruptions	Localized flooding and damage of roads with significant delays and disruption to traffic  Accidents and associated Disruptions; increased travel times  Frequent traffic signal outage/flashing; significant traffic congestion  Significant disruptions to public transportations	Widespread flooding and damage of roads with dangerous driving conditions  Multiple accidents and associated disruptions; increased travel times  Most traffic signal outage/flashing – major traffic delays, accidents at intersections  Most publication transportation delayed or not operational
Schools	Minor disruption of school activities	Localized disruption of school activities	Regional closure of schools	All schools closed
Landslides	Isolated land slippage	Localized land slippage – limited debris flow on roads	Localized land slippage resulting in road closures and property damage – significant debris flow (rocks and	Land slippage resulting in road closures and property damage and communities cut off

### Event preparation example: Response matrix

#### **Heavy Rainfall**

Very Low Risk: No Action	Low Risk: Be Aware	Medium Risk: Be Prepared	High Risk: Take Action
Monitor for changing weather conditions	Stay out of flood waters	Stay out of flood waters	Stay out of flood waters
	Evaluate inventory of	Check emergency supplies,	Prepare to use emergency
	emergency supplies (food,	purchase additional supplies if	supplies, acquire additional
	water, medical supplies); prepare to restock supplies at	needed, fill gas tanks, etc.	supplies if possible, fill gas tanks, preposition food and
	the beginning of season	Be prepared for localized	emergency supplies for post
		flooding of roads and properties	Event
	Be aware of localized flooding of roads and properties in	in [locations]. Impacts include accidents, associated	Avoid walking or driving through
	[locations]. Impacts include	disruptions, increased travel	moving water
	occasional accidents,	times, land slippages could block	
	associated disruptions, increased travel times, land	roads.	Seek safer/higher ground if in [locations].
	slippages could block roads.	Prepare for traffic delays due to	[tocations].
		signal outages	Monitor for changing weather
	Be aware for possible traffic	Durana fan maarihia dalam an	conditions
	delays due to signal outages	Prepare for possible delays or cancellation of public	Call emergency services if
	Be aware for possible delays in	transportation routes	Impacted.
	public transportation		o. 65 l
	Be aware for possible localized	Prepare for localized flooding in low-lying, flood prone areas	Stay off roads especially in flood prone areas, streets with
	flooding water course over	tow tying, flood profile areas	traffic signals, or areas with
	flood prone areas	Prepare for localized land	frequent land
	Do aware for propare for	slippage, debris flow and	slippage/landslides
	Be aware for prepare for	possible road closures	

We can't do it alone.

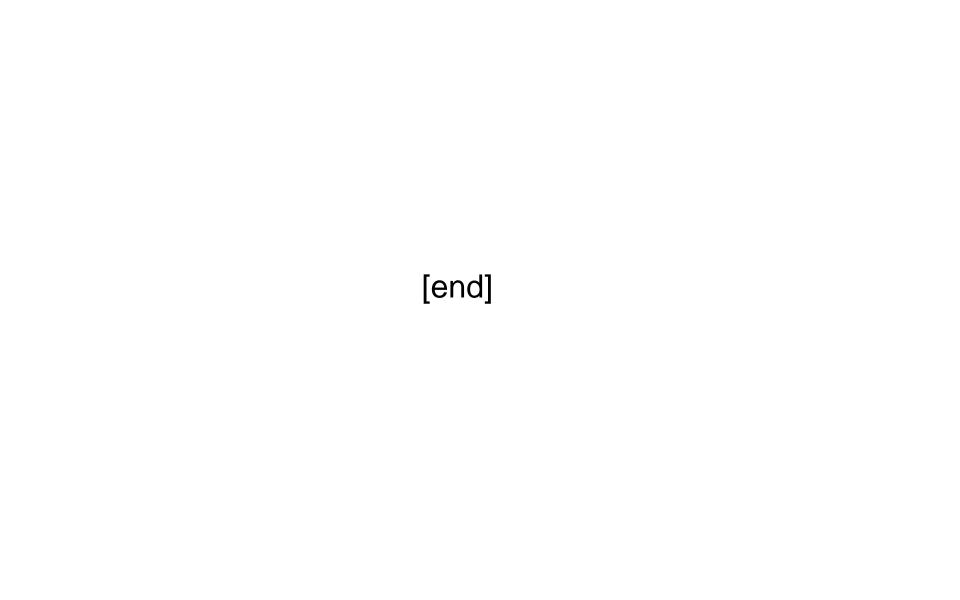
Large businesses
Small businesses
Non-profits
Non-governmental

Non-governmental organizations

Schools / universities

Other???

We need YOU as a partner!



### Who's involved in WCRNs?

#### **Primary funding partner**



#### **Key Barbados partners**







#### Other partners











