



# CDEMA Responses 2021 & IHO Collaboration Opportunities

Presented by Ms. Elizabeth Riley

Executive Director, CDEMA

MACHC22

Friday, 3 December, 2021



# PRESENTATION OVERVIEW

- ❖ **CDEMA mandate and Participating States**
- ❖ **Complex multi-hazard environment**
- ❖ **RRM Responses 2021**
  - **La Soufriere**
  - **Guyana Floods**
  - **Haiti Earthquake**
- ❖ **COVID-19 - Core Coordination Group - key actions/decisions (selected) for the 2021 period**
- ❖ **Possible areas of engagement with the IHO**



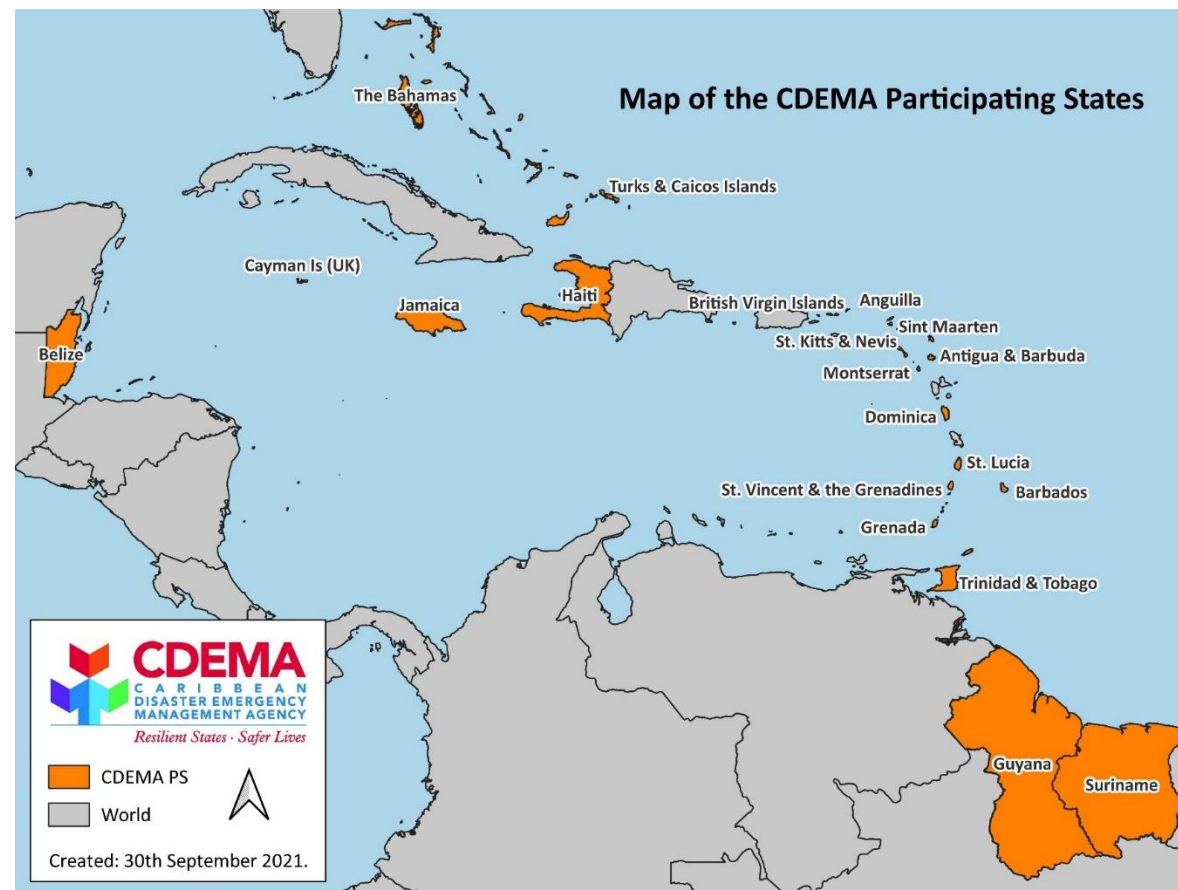
**Mobilizing and coordinating disaster relief**

**Mitigating consequences of disasters**

**Providing comprehensive information on disasters**

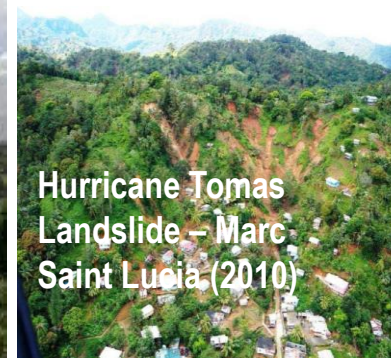
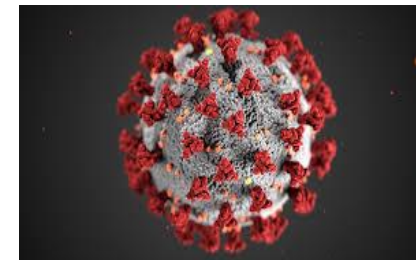
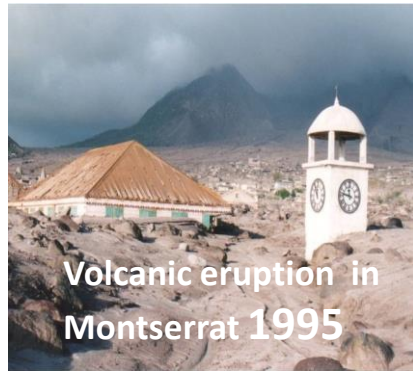
**Encouraging disaster loss reduction and cooperative arrangements and mechanisms**

**Establishment, enhancement and maintenance of adequate emergency disaster response capabilities among the Participating States**





# MULTI-HAZARD CONTEXT



# REGIONAL RESPONSE MECHANISM (RRM)

**AIM** – To provide effective and efficient coordinated disaster response support to CDEMA Participating States requiring regional and/or international assistance for their response to the consequences of an event based on regionally agreed Principles, Concepts and Realities.

- The RRM is comprised of:
  - A number of Plans, Procedures & Guidelines
  - A group of Response Units, agencies and organizations
  - A collection of Agreements, Memoranda of Understanding and Protocols
  
- Executed by the CDEMA Coordinating Unit (CU) on behalf of the CDEMA Participating States (PSs) through the Regional Coordination Center (RCC).



## **VOLCANIC ACTIVITY MONITORING SUPPORT TO ST. VINCENT AND THE GRENADINES 2021**

- ❖ Use of a rotary aircraft from Calvin Air Helicopters to:
  - Assist the scientists of the UWI Seismic Research Centre (SRC) in monitoring and analysis of volcanic activity
  - Sampling extrusive materials for analysis
  - Transport scientific equipment for installation to improve monitoring
    - Instrumentation was critical in providing warning prior to the April 9, 2021 explosive event
    - No fatalities from the eruption



CalvinAir helicopter deploying scientists Jan 2021



Aerial footage taken from CalvinAir



La Soufriere Volcanic eruption, 2021

La Soufriere volcanic eruption 2021.

Photo credit: Seismic Research Centre, UWI

# DEPLOYMENT TEAMS & LOGISTICS SUPPORT TO ST. VINCENT AND THE GRENADINES - VOLCANIC EMERGENCY RESPONSE

Arnos Vale Logistics Hub

- ❖ Over 30 emergency response team members were deployed
- ❖ CARICOM Operational Support Team (COST)
  - Provided direct emergency operational support to the national EOC
  - Facilitated the review and update of SOPs, and plans and tested these SOPs via two war-gaming exercises
- ❖ CARICOM Disaster Relief Unit (CDRU)
  - Establishment and operation of the Arnos Vale logistics hub in partnership with the WFP
- ❖ Detailed Damage Sectoral Analysis (DDSA)
  - Conducted a rapid in-depth analysis of the damage done by the volcanic eruption to water, health, agriculture and other sectors



Capt Harewood, CDEMA  
CU COST operative  
reporting to EOC



RFA Wave Knight delivering  
relief items from Barbados  
to St. Vincent





# DETAILED DAMAGE SECTOR ASSESSMENT (DDSA)

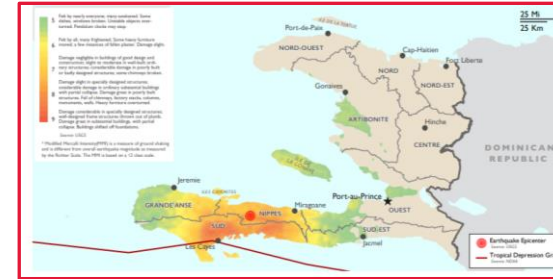
Guyana – Major Flooding, 2021

- ❖ Detailed Damage Sector Assessment (DDSA) was conducted in 6 Regions and a report completed and submitted to the Government of the Republic of Guyana
- ❖ Covered the areas of:
  - Agriculture
  - Health
  - Water & Sanitation (WASH)
  - Electricity
  - Social Sector
  - Housing and Infrastructure
  - Mining

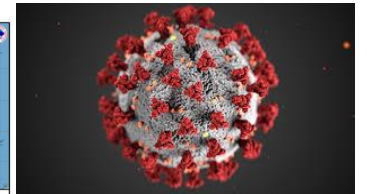


# COST SUPPORT TO HAITI EARTHQUAKE RESPONSE AUGUST, 2021

- ❖ The CDEMA CU deployed seven (7) team members under the COST umbrella at the request of Haiti.
  - Direct EOC support - coordination of response operations
  - Conducted assessment for the feasibility of the CDEMA Legacy project
    - A two-man engineer team which conducted an assessment of the Ecole National de Changeux to determine the extent of the damage and provide recommendations for its reconstruction



Multi-hazard context



MNCCC – Haiti Earthquake



CDEMA COST Personnel from TCI disembarking UK asset in Haiti, Aug 2021

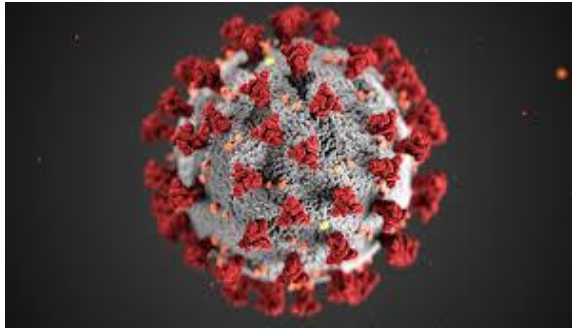


# **CARICOM Operational Support Team (COST) – 2021 Haiti Earthquake Response**





# COVID-19 PANDEMIC



Multi-sectoral coordination for COVID19 within CARICOM is delivered through the established Regional Response Mechanism (RRM) coordinated by the CDEMA Coordinating Unit.

- ❖ A specialized Core Coordination Cell (Health) comprising the Caribbean Public Health Agency (CARPHA), CDEMA, the CARICOM Secretariat and the Pan American Health Organization (PAHO) has been established for COVID19.
- ❖ This cell generates hazard specific (COVID19) information which (i) drives coordination actions by cells of the Regional Coordination Centre (RCC) and (ii) facilitates the interface between existing Health Sector Response Coordination mechanisms and the RCC.
- ❖ Multi-level coordination and information sharing is facilitated through frequent exchanges with the national – National Disaster Coordinators (NDCs), regional – CARICOM Heads of Regional Institutions convened by the CARICOM Secretary General and international partners – Caribbean Development Partners Group (CDPG) actors.

# OBSERVATIONS

## CDEMA PSs & Partners in the MACHC

### ❖ Members:

- Guyana, Jamaica, Suriname, Trinidad and Tobago, Dutch Overseas Territory: Sint Maarten, UK Overseas Territories: Anguilla, British Virgin Islands, Cayman Islands, Montserrat, Turks and Caicos Islands

### ❖ Associate Members:

- Antigua and Barbuda, Barbados, Belize, Grenada, Haiti, Saint Lucia, St. Kitts and Nevis, St. Vincent and the Grenadines

### ❖ Observers:

- Dominica

# OBSERVATIONS

## Common Partners

- ❖ Contributing Organisations:
  - Caribe EWS, OECS, University of the West Indies
- ❖ Inter-Governmental Organisations:
  - Association of Caribbean States (ACS), European Commission (EC), Organisation of Eastern Caribbean States (OECS), World Meteorological Organisation (WMO)





# IDEAS FOR ENGAGEMENT

Under IHO's areas of focus

Safety of navigation

Protection and  
management of the  
marine environment

Search and rescue

Tsunami flood and  
inundation  
modelling

# POTENTIAL IHO COLLABORATION

- ❖ CDEMA as an Inter-Governmental Organisation (IGO) can qualify under the criteria of the IHO to be an Observer.
- ❖ Support for decision-making in the form of data sharing, facilitating connections, exchange of ideas/knowledge through trainings/exercises/consultations, etc.
- ❖ Seek to become a Contributing Organisation to the MACHC.

# THANK YOU

Elizabeth Riley, Executive Director, CDEMA  
[elizabeth.riley@cdema.org](mailto:elizabeth.riley@cdema.org)

