Barbados Tsunami National Report 2023

August 7, 2023, Honolulu, Hawaii

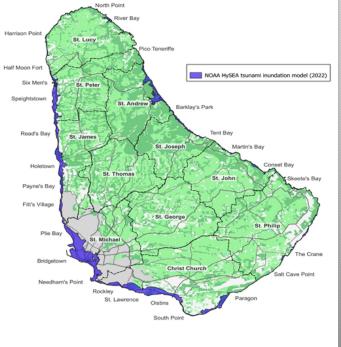
Presented by

Ms. Racquel Davis

Meteorologist 1 – Barbados Meteorological Services

Barbados





Barbados Team



 Dr. Leo Brewster – Director of Coastal Zone Management Unit (CZMU) and Tsunami National Contact.



 Ms. Kerry Hinds – Director of the Department of Emergency Management (DEM) and Tsunami Advisor.



- Mr. Sabu Best Director of Barbados Meteorological Services (BMS), Tsunami Warning Focal Point/Warning Centre.
- Technical Standing Committee on Coastal Hazards (TSCCH) comprises of 29 entities. These include Barbados Light and Power (BL&P), Barbados Fire Service (BFS), Barbados Coast Guard (BCG), Ministry of Home Affairs (MHA), Caribbean Disaster Emergency Management Agency (CDEMA) etc.

Tsunami Ready Recognition in Barbados

- Tsunami Ready projects in Barbados are implemented in country by DEM and CZMU who are co-chairs of TSCCH which was established in 2019.
- In 2020, Shermans, St. Lucy to Mullins, St. Peter Barbados, received • recognition as Tsunami Ready under the pilot community Performance Based Tsunami Recognition Programme.
- The process was implemented by the DEOs from each area. •
- *DEO Volunteer arm of the DEM "Eyes and Ears on the ground" •

Mullins, St. Peter, Barbados is Tsunami Ready In case of strong or long earthquake or any official message, go to high ground or inland Map showing pilot area certification from Shermans,

St. Lucy to Mullins St. Peter.

Shermans, St. Lucy to

Tsunami Ready Recognition in Barbados



Image showing DEO working in the satellite EOC



Images showing signage erected in Tsunami Recognition Zone -Shermans St. Lucy to Mullins to St. Peter



Tsunami Ready Recognition in Barbados

- On May 13th 2022 Barbados launched the Tsunami Ready Recognition for two new communities:
 - Garrison to Rendezvous, Ch Ch. (75%) this area is heavily populated with nightclubs, restaurants, bars and hotels also a major highway 7 runs through the area.
 - Porters to Holders Hill, St. James (50%) located along this coast are luxury villas, hotel and a local marine park (Folkestone Marine Park).





Inundation maps of area from Garrison to Rendezvous, Ch. Ch.

Google map showing area from Porters to Holders Hill, St. James

Tsunami Warning Center

- The BMS is the focal point/warning center for tsunamis in Barbados, who receives messages from PTWC.
- The tsunami bulletins issued by the BMS follow the Impact Based Forecasting (IBF) which was introduced in 2020 – tsunamis were added in 2021. A transition from text based alerts to the hazard impacts and respective responses.
- These bulletins include tsunami information statement (GREEN), tsunami advisory (YELLOW), tsunami watch (ORANGE), tsunami warning (RED) and discontinuation (GREEN).
- With the aid of high resolution lidar contour data from CZMU warning maps were constructed.



Tsunami Warning Center

- At the BMS in 2021, a Tsunami Bot was introduced to improve some weakness with associated with time of dissemination along with the lack of impacts and response language in the bulletins.
- The BMS created a bot which scans the USGS web server every minute for earthquakes with magnitude greater than 6.5 between the bounding box 5N to 20N and 50W to 70W.
- The bot follows the SOP and would disseminate the appropriate message within 2 minutes of the actual earthquake. (There still exist the ability to disseminate messages outside the assistance of the bot)
- The bot will disseminate threat messages automatically.

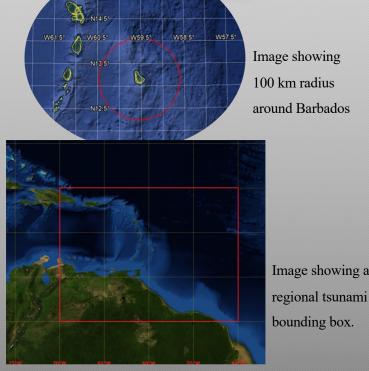
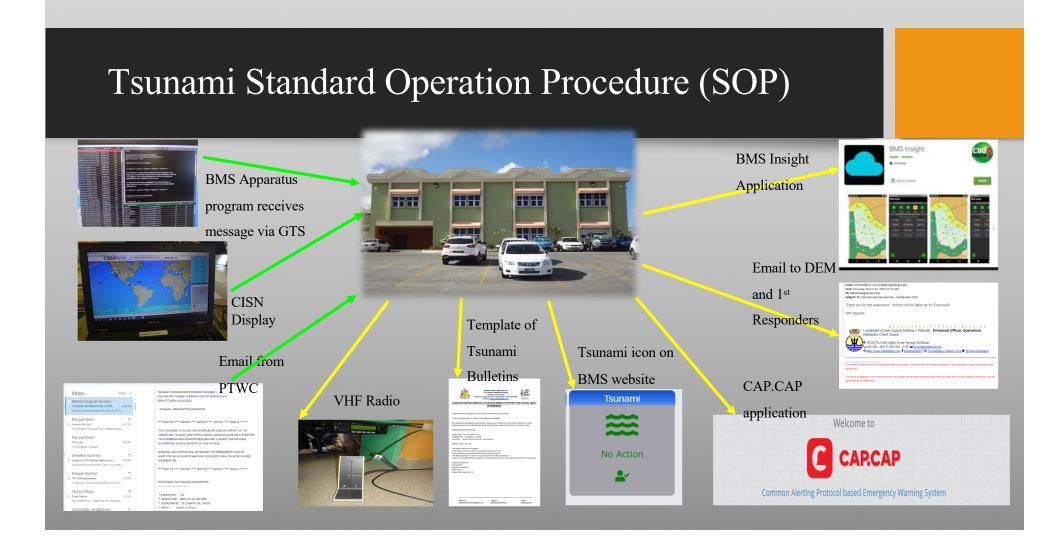


Image showing a



National Sea Level Network

Station Name	Location	<u>Owner</u>
Port St. Charles	St. Peter	CZMU
Speightstown	St. Peter	BMS
Bridgetown	St. Michael	BMS
Oistins	Christ Church	BMS
Barbados Coast Guard	St. Michael	BMS & CZMU
Consett Bay	St. John	BMS



Consett Bay, St. John

> Radar Sensors Location

Barbados Coast Guard

Link: http://3d-barbados.chordsrt.com:3000/d/CiqFumSMz/barbados-bms?orgId=1

Tsunami Mitigation



- Members of the National Emergency Management System in the National Emergency Operations Centre responding to the Exercise tsunami threat. (Caribe Wave 2023)
- Public education and awareness programme with focus on the involvement of coastal communities, the private sector especially the Tourism sector, the disabled community and the youth population.

Information On Tsunami Occurrence/Exercises

 The Barbados population has been informed on tsunami and other coastal hazards through public awareness and education activities which targets coastal communities, the Tourism Sector stakeholders, the disabled community, school population and the general public.



World Tsunami Awareness Day - community outreach - November 5th, 2022

Activities relating to the National Tsunami Public Awareness Programme January 2022 - March 2023





AN ANNUAL TSUNAMI EXERCISE THAT ALLOWS EMERGENCY MANAGEMENT ORGANISATIONS TO:

test the national tsunami alert system
test emergency communications
encourage the practice of tsunami safety procedures

m246 m@dembarbados @@dem barbados @@dem







As a part of this year's **Caribe Wave** exercise presentations on the **Tsunami** and **Earthquake Hazards** as well as **Fire Safety** were made at **St. James Primary.**







