



1st Webinar

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BS Geology
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#CARIBEWAVE
#TSUNAMIREADY

24 January 2023

CARIBE WAVE 2022

CARIBE WAVE 22 was held on 10 March 2022. Taking into consideration the COVID-19 pandemic, each Member State and Territory determined its level of participation.

In the Caribbean and Adjacent Regions, the **48** Member States and Territories participated in this exercise with a total of over **413,000** people engaged.

- The participation of MS represents a rate of **100%** (up from 98% in 2021).



PTWC (a)



Mexico (b)

Objectives for CARIBE WAVE 23

1. Exercise and evaluate communications between the Regional Tsunami Service Provider and Members States/Territories.

- A. Validate the **issuance** of tsunami products from the PTWC.
- B. Validate the **receipt** of tsunami products by CARIBE-EWS Tsunami Warning Focal Points (TWFPs) and/or National Tsunami Warning Centers (NTWCs).

2. Evaluate the tsunami procedures and programs within Members States/Territories.

- A. Validate **readiness** to respond to a tsunami.
- B. Validate the **operational readiness** of the TWFPs/NTWCs and/or The National Disaster Management Office (NDMO).
- C. Improve **operational readiness**. Before the exercise, ensure appropriate tools and response plan(s) have been developed, including public education materials.
- D. Validate that the **dissemination of warnings** and information/advice by TWFPs and NTWCs, to relevant in-country agencies and the public is accurate and timely.
- E. Evaluate the status of the implementation of the UNESCO/IOC **Tsunami Ready** programme.

3. To evaluate volcanic products.

- A. Evaluate proposed PTWC CARIBE-EWS procedures and products for volcanic events.
- B. Evaluate input and procedures from agencies responsible for volcano monitoring.
- C. Evaluate Member States and Territories response plans for tsunamis from volcanoes.

#CARIBEWAVE

#TSUNAMIREADY

Goals / Metrics

Goals	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results	2023 Metrics
TWFP receive the dummy message	84%	95%	100%	89%	97%	97%	91%	100%
Participation of Member States of ICG/CARIBE-EWS with designated focal warning point	100%	100%	97%	100%	92%	98%	100%	100%
Community involvement (including agencies beyond TWFP)	73%	82%	77%	66%	38%	56%	43%	95%
Number of participants*	332,812	679,985	643,403	793,353	4,622	333,518	413,281	+10%
Countries who participate submit exercise questionnaire	100%	100%	91%	82%	92%	95%	100%	100%
Members State and territories are satisfied with exercise				82%	76%	96%	88%	100%

NEW: CARIBE WAVE Website!

UNESCO IOC IOC Tsunami NOAA US Tsunami NOAA Tsunami

ITIC International Tsunami Information Center

Home > Intergovernmental > Tsunami Exercises > International Exercises > Caribbean

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- Am I in Danger?
- What to Do?
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- About ITIC

Technical Info

- Current Warnings
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- Tsunami Events
- Earthquake Monitors
- Sea Level Monitors
- Research
- Meetings
- Tools & Products
- Library
- ITST Tsunami Survey
- Marine Ports Guide
- Vertical Evac Guide

Intergovernmental

- Global System
- Pacific (PTWS)
- Info Centers
- ITIC Training
- Tsunami Exercises
- UNESCO/IOC Tsunami Ready Programme

Caribbean

- CARIBE WAVE 11 - March 23, 2011
- CARIBE WAVE 13 - March 29, 2013
- CARIBE WAVE 14 - March 26, 2014
- CARIBE WAVE 15 - March 23, 2015
- CARIBE WAVE 16 - March 17, 2016
- CARIBE WAVE 17 - March 21, 2017
- CARIBE WAVE 18 - March 15, 2018
- CARIBE WAVE 19 - March 14, 2019
- CARIBE WAVE 20 - March 10, 2020
- CARIBE WAVE 21 - March 11, 2021
- CARIBE WAVE 22 - March 10, 2022
- CARIBE WAVE 23 - March 23, 2023

CARIBE WAVE Exercise

Preparing for tsunami risk in the Caribbean

This is how countries and communities help prepare for the tsunami risk in the Caribbean

UNESCO IOC NOAA

IOC Tsunami Information Centres

- ITIC
- CTIC
- IOTIC
- NEAMTIC

ITIC CARIBBEAN OFFICE (ITIC-CAR)

Quick Links

- Current Warnings
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Resources

- UNESCO IOC Tsunami Ready
- Preparing communities to be ready for the next tsunami
- Tsunami Awareness Poster
- Available in English, Chinese, French, Japanese, Korean, Portuguese, Singapore.

Global & Regional

Website

UNESCO IOC IOC Tsunami NOAA US Tsunami NOAA Tsunami

ITIC International Tsunami Information Center

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CARIBE WAVE 23

March 23, 2023 at 1400 UTC

REGISTER YOUR PARTICIPATION FOR THE EXERCISE HERE

EN - UNESCO/IOC Caribe Wave Exercise

Click to see and download the CARIBE WAVE Exercise video in:
English
Spanish
French

UNESCO IOC NOAA

IOC Tsunami Information Centres

- ITIC
- CTIC
- IOTIC
- NEAMTIC

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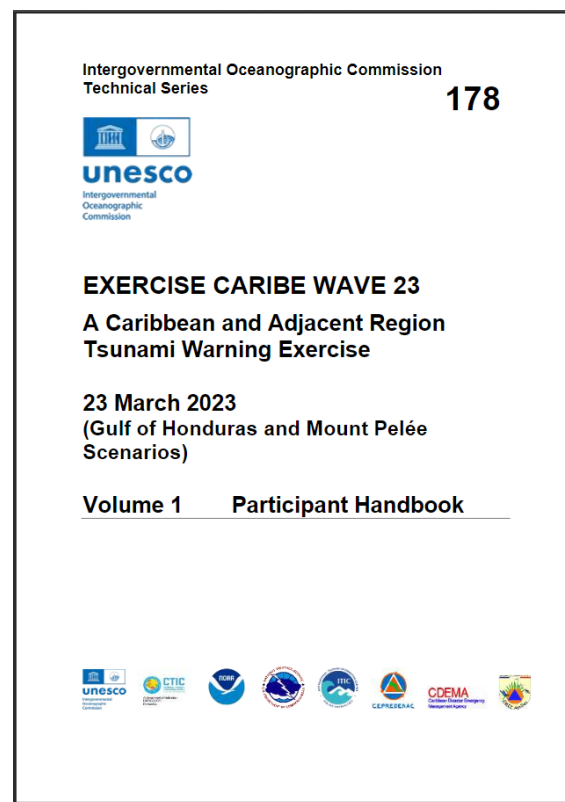
Resources

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Global & Regional

Exercise Handbook

- The CARIBE WAVE 23 exercise Handbook is available at, www.caribewave.org
- This manual includes:
 - Tsunami and earthquake scenarios description
 - Timeline
 - PTWC dummy message and simulated exercise threat messages
 - Travel times and expected wave heights
 - The website link to post-exercise evaluation questionnaire

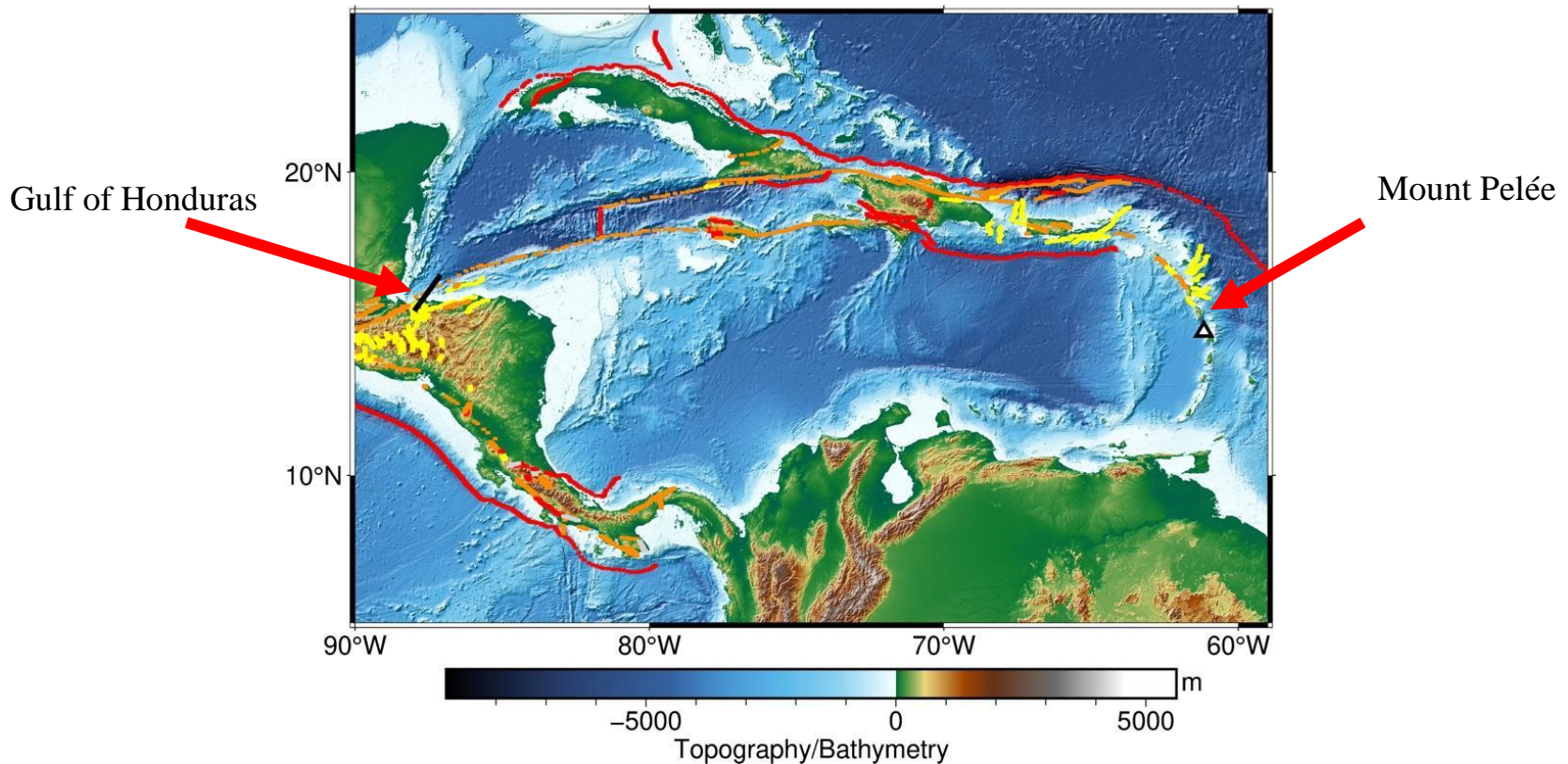


#CARIBEWAVE
#TSUNAMIREADY

CARIBE WAVE 23

Earthquake and Tsunami Scenarios

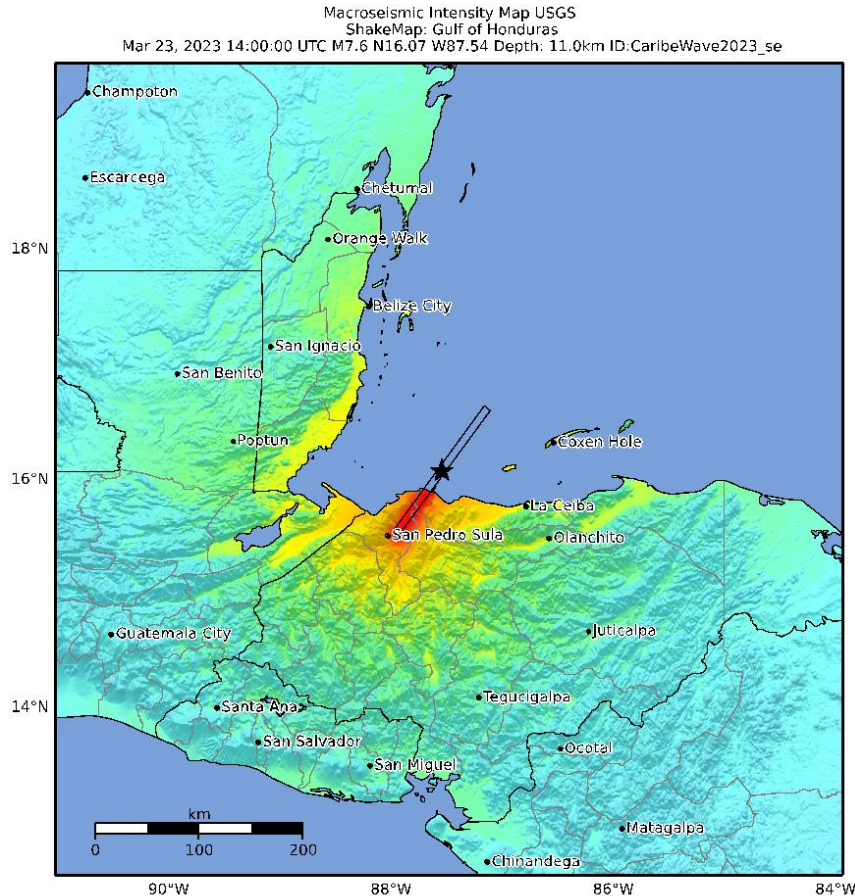
CARIBE WAVE 23



Scenario	Origin Time	Mw	Epicenter
Gulf of Honduras	14:00:00 UTC	7.6	16.07°N, 87.54°W
Mount Pelée	23 March 2023		14.48°N, 61.10°W

Earthquake Impact Scenario

Gulf of Honduras



SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very light	Light	Moderate	Moderate/heavy	Heavy	Very heavy
PGA(%g)	<0.0454	0.297	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV(cm/s)	<0.0215	0.135	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based on Worden et al. (2012)

△ Seismic Instrument ○ Reported Intensity

Version 1: Processed 2022-11-08T23:09:31Z

★ Epicenter □ Rupture



science for a changing world

Earthquake Shaking **Red Alert**



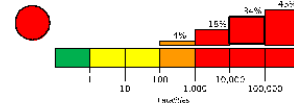
PAGER Version 2

M 7.6, Scenario Gulf of Honduras

Origin Time: 2023-03-23 14:00:00 UTC (Thu 08:00:00 local)
Location: 16.0716° N 87.5401° W Depth: 11.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

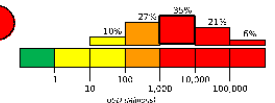
Estimated Fatalities



Red alert for shaking-related fatalities and economic losses. High casualties and extensive damage are probable and the disaster is likely widespread. Past red alerts have required a national or international response.

Estimated economic losses are 3-30% GDP of Honduras.

Estimated Economic Losses

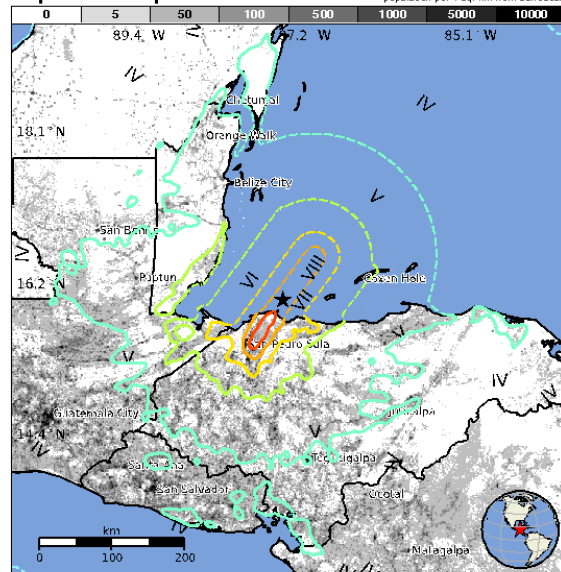


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=1000)	—k	6k*	19,800k*	7,549k	1,670k	725k	1,178k	370k	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and adobe block construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(°)	Shaking Deaths
1990-07-13	345	5.0	V(136k)	0
1986-10-10	306	5.7	VIII(30k)	950
1976-02-04	192	7.5	IX(80k)	23k

Recent earthquakes in this area have caused secondary hazards such as tsunamis and landslides that might have contributed to losses.

Selected City Exposure

MMI	City	Population
IX	La Huesca	1k
IX	Monterrey	2k
IX	Puerto Alto	1k
IX	San Jose del Boqueron	1k
VIII	La Lima	46k
VIII	Choloma	139k
VIII	San Pedro Sula	489k
V	Tegucigalpa	851k
IV	Guatemala City	995k
IV	Santa Ana	177k
IV	San Salvador	526k

bold cities appear on map.

(k = 1000)

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<http://earthquake.usgs.gov/data/pager/>

Event ID: uscaribewave2023_se

PTWC PRODUCTS

#CARIBEWAVE
#TSUNAMIREADY

For CARIBE WAVE 23, PTWC will issue the following products:

- On **23 March 2023, at 1400 UTC**, the initial dummy message will be issued and disseminated over all its standard broadcast channels for the two scenarios.
- PTWC will also issue a start of exercise message through its Twitter account at **1400 UTC**.
- As of **1407 UTC**, PTWC emails will be sent with all the simulated enhanced products (text and graphical) to the designated CARIBE-EWS, TWFP and NTWC for one of the scenarios.
 - By **10 March 2023**, each Member State is requested to select the scenario their country will use for the exercise by completing the following survey (https://www.surveymonkey.com/r/CW23_ScenarioSelection).
 - Each country/territory will choose one scenario and decide if and how to disseminate messages within its area of responsibility.
 - **If the Member State does not inform the PTWC and ITIC-CAR, the organizers will decide for which scenario the PTWC will send the products.**
 - To verify the current list of officially designated UNESCO IOC CARIBE-EWS TWFP and NTWC check out: http://www.ioc-tsunami.org/index.php?option=com_content&view=article&id=6&Itemid=22&lang=en

Username: tsunami Password: bigwave

Appendix V. TWC Dummy (Start of Exercise) Messages

PTWC ← **Center**
WECA41 PHEB 231400 ← **WMO ID**
TSUCAX ← **AWIPS ID**

TEST...INITIAL DUMMY START OF EXERCISE MESSAGE...TEST
NWS PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
ISSUED AT 1400Z 23 MAR 2023

...TEST...CARIBE WAVE 23 TSUNAMI EXERCISE DUMMY MESSAGE.
REFER TO THE EXERCISE HANDBOOK. THIS IS AN EXERCISE ONLY...TEST...

THIS MESSAGE IS BEING USED TO START THE CARIBE WAVE 23 TSUNAMI EXERCISE AND TEST COMMUNICATIONS WITH UNESCO IOC CARIBE EWS NTWCS AND TWFPS. THIS WILL BE THE ONLY EXERCISE MESSAGE BROADCAST FROM THE PACIFIC TSUNAMI WARNING CENTER EXCLUDING SPECIAL EMAIL MESSAGES DISCUSSED IN THE HANDBOOK. THE HANDBOOK IS AVAILABLE AT THE WEB SITE CARIBEWAVE.ORG. THE EXERCISE PURPOSE IS TO EXERCISE AND EVALUATE THE CARIBE EWS TSUNAMI WARNING SYSTEM.

THIS IS ONLY AN EXERCISE.

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Dummy (Start of Exercise) Message

Start of exercise message will also be sent out by PTWC twitter accounts.

“This is a test message for the CARIBEWAVE23 tsunami exercise
#CaribeWave”

(Will be issued at 14h00 UTC to NWS_PTWC and NWS_CTWP
accounts/subscribers)

Gulf of Honduras Scenario

Message Chronology issued by the PTWC

Gulf of Honduras

Date	Time (UTC)	PTWC	
		Type of Product	Transmission Method
3/23/23	1400	- - - - E a r t h q u a k e O c c u r s - - - -	
3/23/23	1400	Dummy	NWWS, GTS, EMWIN, AISR, Fax, Email
3/23/23	1407	Initial Tsunami Threat Message #1	Email
3/23/23	1425	Tsunami Threat Message #2 with Forecast and Graphical Enhanced Products	Email
3/23/23	1445	Tsunami Threat Message #3	Email
3/23/23	1530	Tsunami Threat Message #4	Email
3/23/23	1630	Tsunami Threat Message #5	Email
3/23/23	1730	Tsunami Threat Message #6	Email
3/23/23	1830	Final Tsunami Threat Message #7	Email

PTWC Message #1

ZCZC
WECA41 PHEB 231407
TSUCAX
TEST...TSUNAMI MESSAGE NUMBER 1...TEST
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI
1407 UTC THU MAR 23 2023

...THIS MESSAGE IS FOR TEST PURPOSES ONLY...
...TEST TSUNAMI THREAT MESSAGE TEST...

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

THIS IS A TEST MESSAGE. THIS MESSAGE IS ISSUED FOR INFORMATION ONLY IN SUPPORT OF THE UNESCO/IOC TSUNAMI AND OTHER COASTAL HAZARDS WARNING SYSTEM FOR THE CARIBBEAN AND ADJACENT REGIONS AND IS MEANT FOR NATIONAL AUTHORITIES IN EACH COUNTRY OF THAT SYSTEM.

THIS IS A TEST MESSAGE. NATIONAL AUTHORITIES WILL DETERMINE THE APPROPRIATE LEVEL OF ALERT FOR EACH COUNTRY AND MAY ISSUE ADDITIONAL OR MORE REFINED INFORMATION.

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

TEST... PRELIMINARY EARTHQUAKE PARAMETERS ...TEST

- * MAGNITUDE 7.4
- * ORIGIN TIME 1400 UTC MAR 23 2023
- * COORDINATES 16.1 NORTH 87.5 WEST
- * DEPTH 11 KM / 7 MILES
- * LOCATION NORTH OF HONDURAS

TEST... EVALUATION ...TEST

- * THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 7.4 OCCURRED NORTH OF HONDURAS AT 1400 UTC ON THURSDAY MARCH 23 2023.
- * THIS IS A TEST MESSAGE. BASED ON THE PRELIMINARY EARTHQUAKE PARAMETERS... HAZARDOUS TSUNAMI WAVES ARE POSSIBLE FOR COASTS LOCATED WITHIN 300 KM OF THE EARTHQUAKE EPICENTER.

TEST... TSUNAMI THREAT FORECAST ...TEST

- * THIS IS A TEST MESSAGE. HAZARDOUS TSUNAMI WAVES FROM THIS EARTHQUAKE ARE POSSIBLE WITHIN 300 KM OF THE EPICENTER ALONG THE COASTS OF

HONDURAS... BELIZE AND GUATEMALA

TEST... RECOMMENDED ACTIONS ...TEST

- * THIS IS A TEST MESSAGE. GOVERNMENT AGENCIES RESPONSIBLE FOR THREATENED COASTAL AREAS SHOULD TAKE ACTION TO INFORM AND INSTRUCT ANY COASTAL POPULATIONS AT RISK IN ACCORDANCE WITH THEIR OWN EVALUATION... PROCEDURES AND THE LEVEL OF THREAT.
- * THIS IS A TEST MESSAGE. PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND LOCAL AUTHORITIES.

TEST... ESTIMATED TIMES OF ARRIVAL ...TEST

- * THIS IS A TEST MESSAGE. ESTIMATED TIMES OF ARRIVAL -ETA- OF THE INITIAL TSUNAMI WAVE FOR PLACES WITHIN THE REGION IDENTIFIED WITH A POTENTIAL TSUNAMI THREAT. ACTUAL ARRIVAL TIMES MAY DIFFER AND THE INITIAL WAVE MAY NOT BE THE LARGEST. A TSUNAMI IS A SERIES OF WAVES AND THE TIME BETWEEN WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	REGION	COORDINATES		ETA(UTC)	
PUERTO CORTES	HONDURAS	15.9N	88.0W	1415	03/23
TRUJILLO	HONDURAS	15.9N	86.0W	1528	03/23
BELIZE CITY	BELIZE	17.5N	88.2W	1545	03/23
PUERTO BARRIOS	GUATEMALA	15.7N	88.6W	1608	03/23

TEST... POTENTIAL IMPACTS ...TEST

- * THIS IS A TEST MESSAGE. A TSUNAMI IS A SERIES OF WAVES. THE TIME BETWEEN WAVE CRESTS CAN VARY FROM 5 MINUTES TO AN HOUR. THE HAZARD MAY PERSIST FOR MANY HOURS OR LONGER AFTER THE INITIAL WAVE.
- * THIS IS A TEST MESSAGE. IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION OF THE SHORELINE.
- * THIS IS A TEST MESSAGE. IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT THE TIME OF THE MAXIMUM TSUNAMI WAVES.
- * THIS IS A TEST MESSAGE. PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE CRUSHED BY DEBRIS IN THE WATER... OR BE SWEEPED OUT TO SEA.

TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

- * THIS IS A TEST MESSAGE. THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF THE SITUATION WARRANTS.
- * THIS IS A TEST MESSAGE. AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT EARTHQUAKE.USGS.GOV.
- * THIS IS A TEST MESSAGE. FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT WWW.TSUNAMI.GOV.
- * THIS IS A TEST MESSAGE. COASTAL REGIONS OF THE US GULF COAST... US EAST COAST... AND THE MARITIME PROVINCES OF CANADA SHOULD REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST MESSAGE.

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Video on PTWC Graphical Tsunami Forecast Products for the CARIBE-EWS



UNESCO IOC / NOAA
International Tsunami Information Center
Tsunami Training Video, September 2021

Pacific Tsunami Warning Center (PTWC) **Graphical Tsunami Forecast Products** **for the CARIBE-EWS**

Dr. Charles “Chip” McCreery
Director, PTWC



Video link: <https://vimeo.com/showcase/8956022>

Password: training

PTWC Message #2

ZCZC
WECA41 PHEB 231425
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 2...TEST
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI
1425 UTC THU MAR 23 2023

...THIS MESSAGE IS FOR TEST PURPOSES ONLY...
...TEST TSUNAMI THREAT MESSAGE TEST...

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

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TEST... EVALUATION ...TEST

- * THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 7.4 OCCURRED NORTH OF HONDURAS AT 1400 UTC ON THURSDAY MARCH 23 2023.
- * THIS IS A TEST MESSAGE. TSUNAMI WAVES HAVE BEEN OBSERVED.
- * THIS IS A TEST MESSAGE. BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE FORECAST FOR SOME COASTS.

TEST... TSUNAMI THREAT FORECAST...UPDATED ...TEST

* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE ALONG SOME COASTS OF

BELIZE... GUATEMALA... AND HONDURAS.

* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE ALONG SOME COASTS OF

MEXICO.

* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE FOR SOME COASTS OF

CUBA... CAYMAN ISLANDS... AND JAMAICA.

* THIS IS A TEST MESSAGE. ACTUAL AMPLITUDES AT THE COAST MAY VARY FROM FORECAST AMPLITUDES DUE TO UNCERTAINTIES IN THE FORECAST AND LOCAL FEATURES. IN PARTICULAR MAXIMUM TSUNAMI AMPLITUDES ON ATOLLS OR SMALL ISLANDS AND AT LOCATIONS WITH FRINGING OR BARRIER REEFS WILL LIKELY BE MUCH SMALLER THAN THE FORECAST INDICATES.

* THIS IS A TEST MESSAGE. FOR ALL OTHER AREAS COVERED BY THIS MESSAGE... THERE IS NO TSUNAMI THREAT ALTHOUGH SMALL SEA LEVEL CHANGES MAY OCCUR.

TEST... RECOMMENDED ACTIONS ...TEST

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LOCATION	REGION	COORDINATES		ETA (UTC)	

PUERTO CORTES	HONDURAS	15.9N	88.0W	1415	03/23
COZUMEL	MEXICO	20.5N	87.0W	1457	03/23
GRAND CAYMAN	CAYMAN ISLANDS	19.3N	81.3W	1508	03/23
CAYMAN BRAC	CAYMAN ISLANDS	19.7N	79.9W	1513	03/23
TRUJILLO	HONDURAS	15.9N	86.0W	1528	03/23
CIENFUEGOS	CUBA	22.0N	80.5W	1530	03/23
SANTIAGO D CUBA	CUBA	19.9N	75.8W	1540	03/23
BELIZE CITY	BELIZE	17.5N	88.2W	1545	03/23
LA HABANA	CUBA	23.2N	82.4W	1546	03/23
MONTEGO BAY	JAMAICA	18.5N	77.9W	1549	03/23
PUERTO BARRIOS	GUATEMALA	15.7N	88.6W	1608	03/23
KINGSTON	JAMAICA	17.9N	76.9W	1629	03/23
SANTA CRZ D SUR	CUBA	20.7N	78.0W	1822	03/23
NUEVA GERONA	CUBA	21.9N	82.8W	1900	03/23
PROGRESO	MEXICO	21.3N	89.7W	1907	03/23

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- * THIS IS A TEST MESSAGE. PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE CRUSHED BY DEBRIS IN THE WATER... OR BE SWEEPED OUT TO SEA.

TEST... TSUNAMI OBSERVATIONS ...TEST

- * THIS IS A TEST MESSAGE. THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM TSUNAMI	WAVE PERIOD
	LAT	LON	(UTC)	HEIGHT	(MIN)

PUERTO CORTES HN	15.8N	88.0W	1425	2.94M/ 9.7FT	22
ROATAN ISLAND HN	16.3N	86.5W	1419	1.70M/ 5.6FT	16

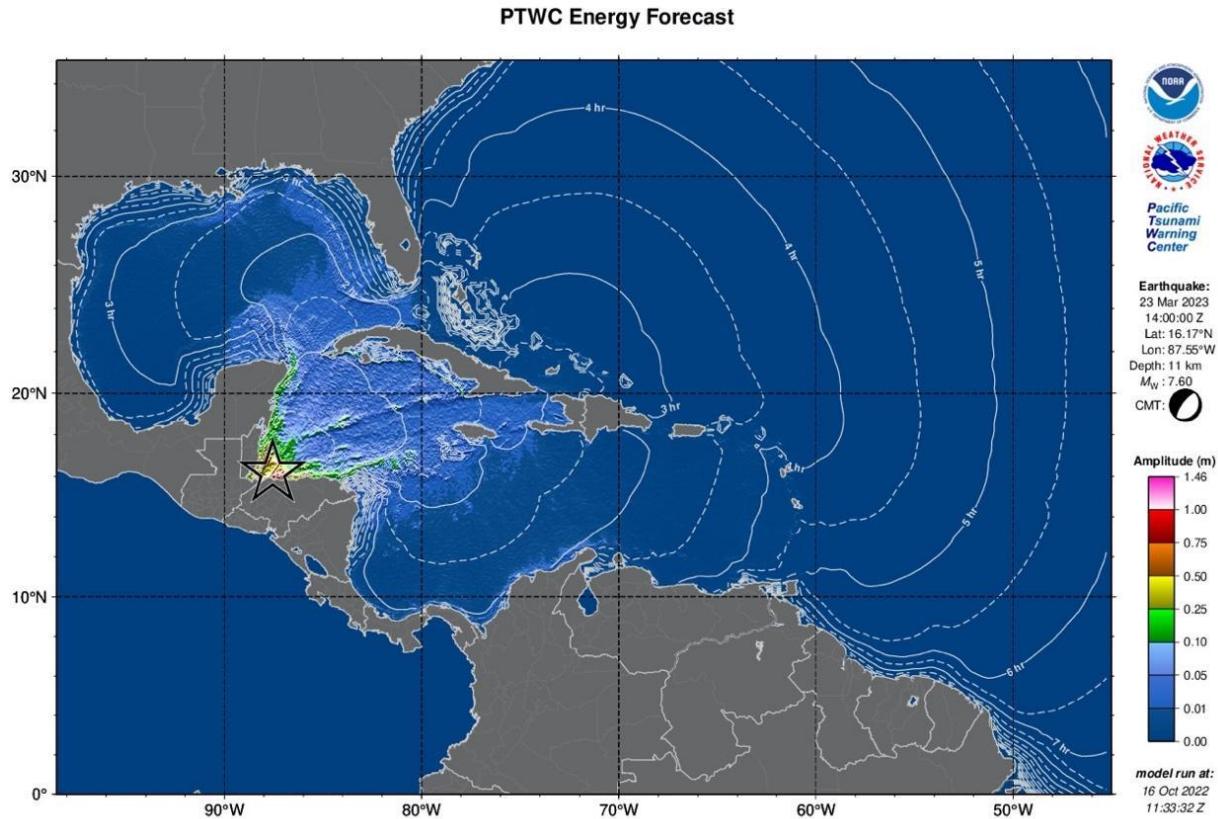
TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

- * THIS IS A TEST MESSAGE. THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF THE SITUATION WARRANTS.
- * THIS IS A TEST MESSAGE. AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT EARTHQUAKE.USGS.GOV.
- * THIS IS A TEST MESSAGE. FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT WWW.TSUNAMI.GOV.
- * THIS IS A TEST MESSAGE. COASTAL REGIONS OF THE US GULF COAST... US EAST COAST... AND THE MARITIME PROVINCES OF CANADA SHOULD REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST MESSAGE.

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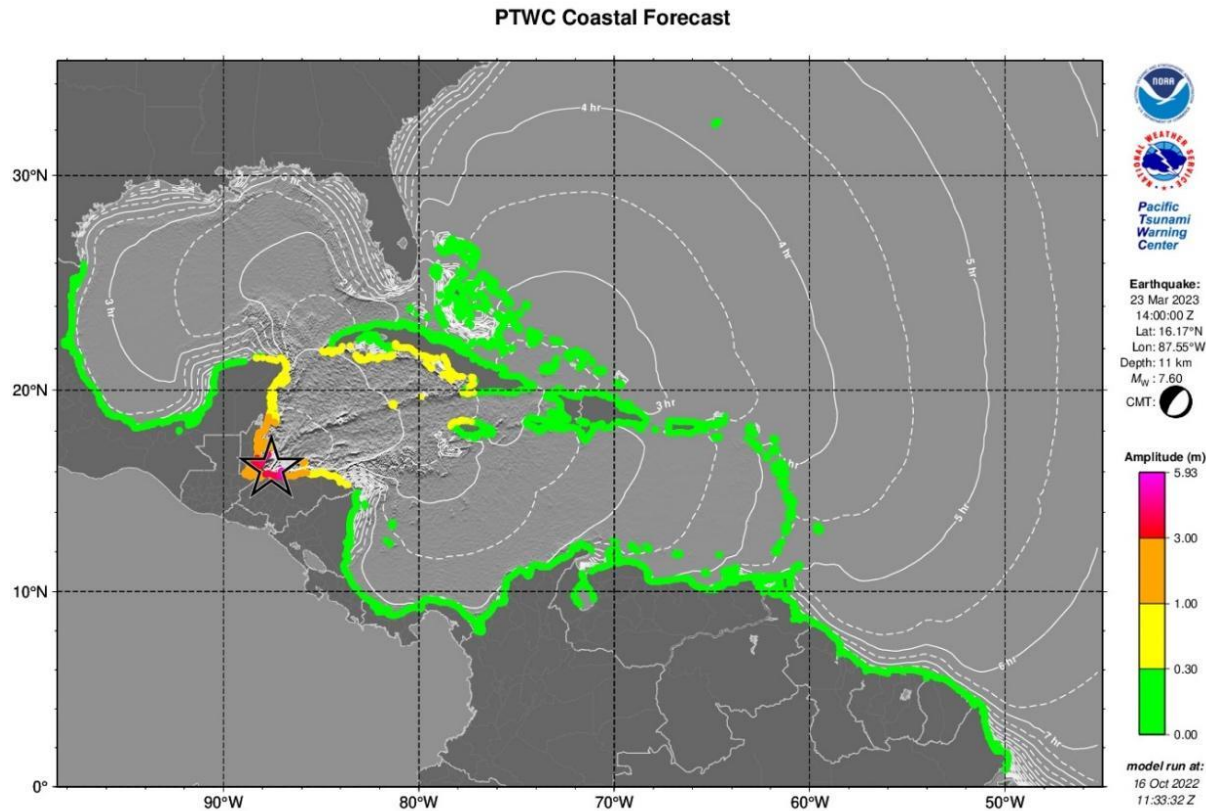
Energy Forecast for Tsunami Wave Heights Gulf of Honduras



RIFT maximum amplitude map based on the scenario for Gulf of Honduras.

During a real event, this product will only be made available to officially designated Tsunami Warning Focal Points and National Tsunami Warning Centers.

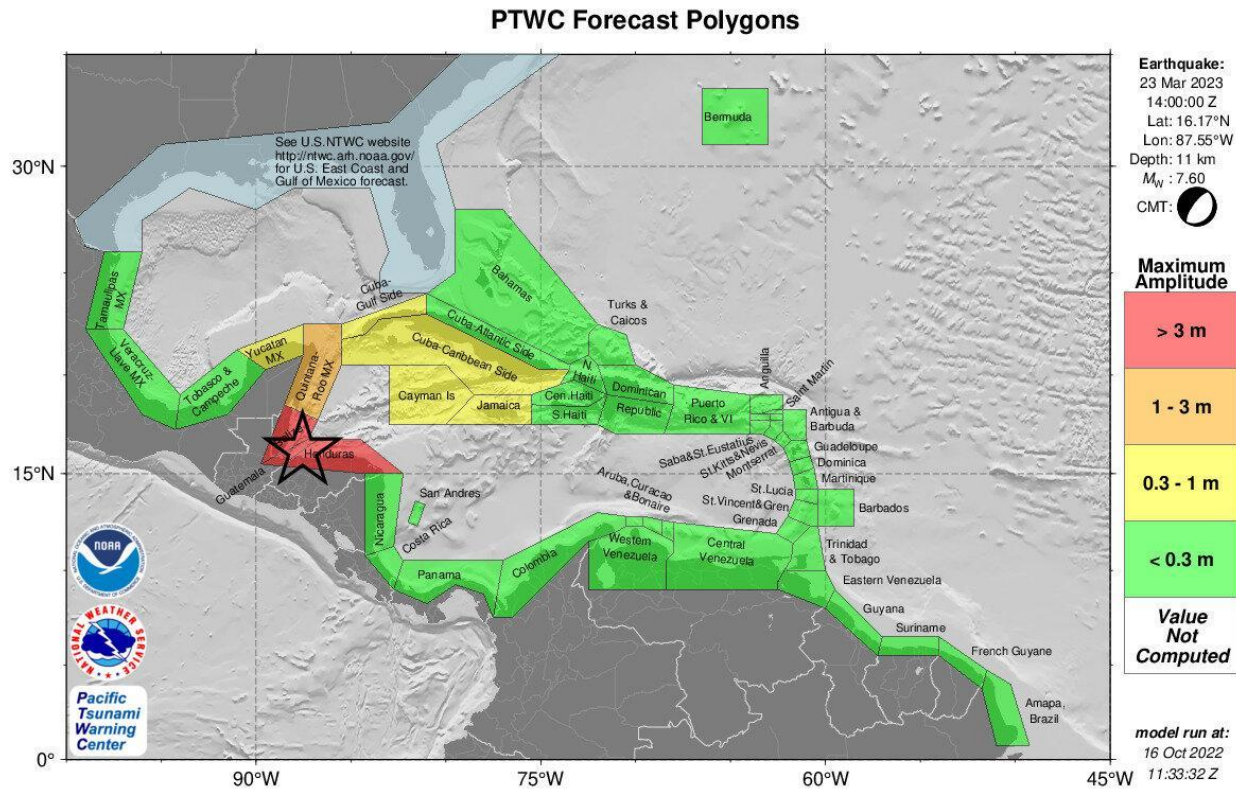
Coastal Forecast for Tsunami Wave Heights Gulf of Honduras



RIFT coastal tsunami amplitude map based on the scenario for Gulf of Honduras.

During a real event, this product will only be made available to officially designated Tsunami Warning Focal Points and National Tsunami Warning Centers.

Polygons Forecast for Tsunami Wave Heights Gulf of Honduras

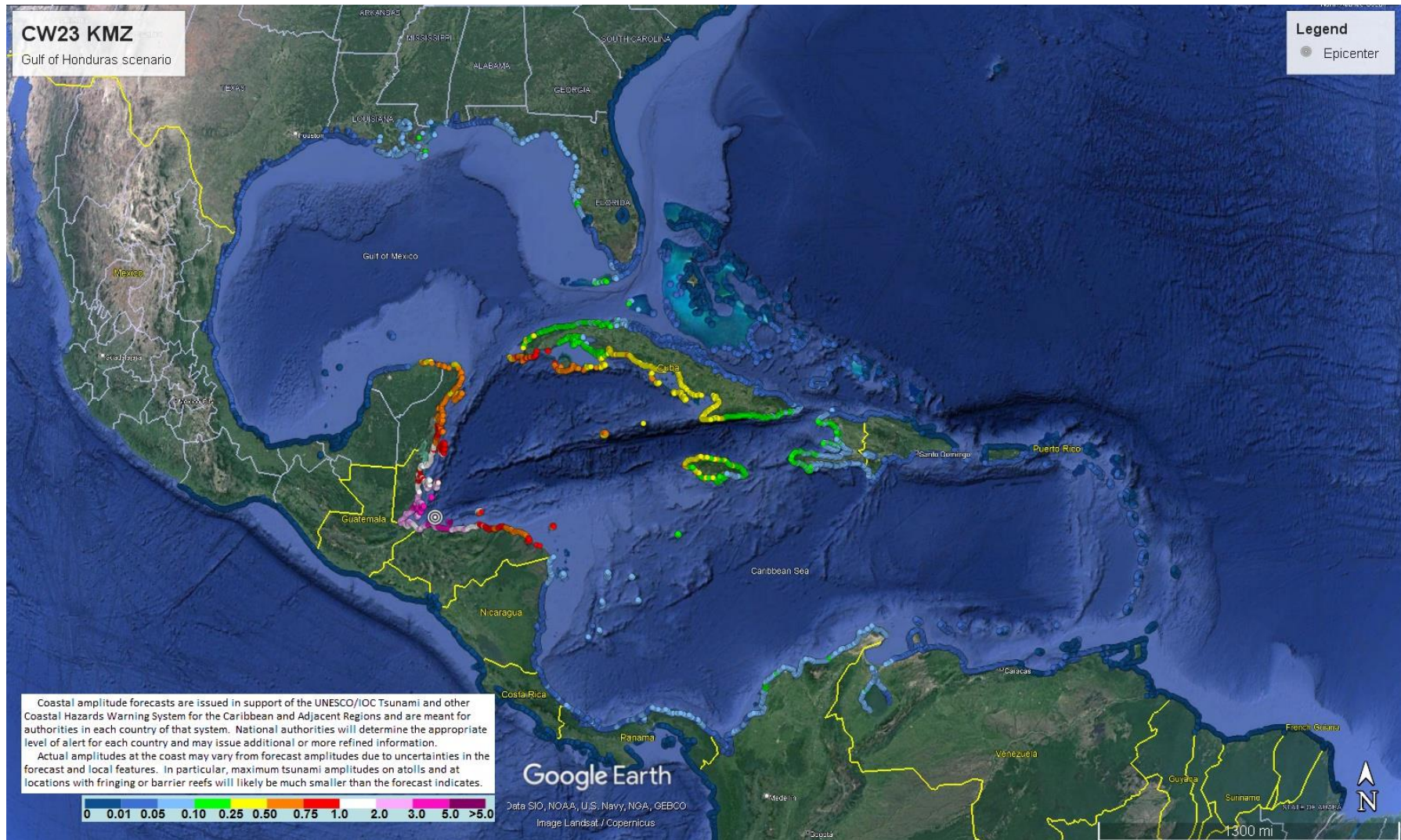


RIFT forecast polygons for the Caribbean region on the Gulf of Honduras scenario.

During a real event, this product will only be made available to officially designated Tsunami Warning Focal Points and National Tsunami Warning Centers.

KMZ

Gulf of Honduras



Forecast Statistics for Regional Polygons

Gulf of Honduras

PTWC TABLE OF FORECAST STATISTICS FOR REGIONAL POLYGONS - RUN ID 20221016113332
(for internal use only - not for distribution)

Earthquake - Origin: 03/23/2023 14:00:00 UTC Coordinates: 16.2N 87.6W Depth: 011km Magnitude: ***

This table is issued for information only in support the UNESCO/IOC Tsunami and Other Coastal Hazards Warning System for the Caribbean and Adjacent Regions and is meant for national authorities in each country of that system. National authorities will determine the appropriate level of alert for each country and may issue additional or more refined information.

Actual amplitudes at the coast may vary from forecast amplitudes due to uncertainties in the forecast and local features. In particular, maximum tsunami amplitudes on small islands will likely be much smaller than the forecast indicates.

Region_Name	Coastal Forecast (meters)				Offshore Forecast (meters)				Total Points
	Maximum	Mean	Median	STD	Maximum	Mean	Median	STD	
Caribbean_Coast_of_Honduras	5.9	1.80	1.30	1.30	1.5	0.44	0.33	0.33	150
Belize	4.4	2.00	1.80	0.92	1.3	0.39	0.36	0.21	159
Caribbean_Coast_of_Guatemala	3.5	2.20	2.20	0.35	0.96	0.49	0.42	0.25	35
Quintana_Roo_Mexico	1.3	0.70	0.65	0.19	0.56	0.17	0.15	0.09	186
Caribbean_Coast_of_Cuba	0.90	0.34	0.32	0.19	0.37	0.07	0.05	0.07	457
Cayman_Islands	0.70	0.52	0.55	0.11	0.38	0.18	0.15	0.08	10
Yucatan_Mexico	0.61	0.13	0.02	0.19	0.06	0.02	0.02	0.01	68
Jamaica	0.61	0.22	0.23	0.09	0.17	0.05	0.05	0.04	143
Gulf_of_Mexico_Coast_of_Cuba	0.44	0.16	0.14	0.06	0.12	0.03	0.03	0.01	103
Gulf_of_Gonave_Coast_of_Haiti	0.17	0.10	0.09	0.03	0.06	0.03	0.02	0.01	155
Caribbean_Coast_of_Haiti	0.16	0.07	0.07	0.03	0.06	0.02	0.01	0.01	101
Caribbean_Coast_of_Colombia	0.11	0.06	0.07	0.02	0.03	0.01	0.01	0.00	307
Bahamas	0.10	0.01	0.00	0.01	0.02	0.00	0.00	0.00	1204
Atlantic_Coast_of_Cuba	0.10	0.02	0.02	0.02	0.02	0.00	0.00	0.00	434
Western_Coast_of_Venezuela	0.10	0.04	0.02	0.03	0.01	0.00	0.00	0.00	250
Atlantic_Coast_of_Haiti	0.10	0.04	0.03	0.02	0.03	0.01	0.01	0.00	74
Caribbean_Coast_of_Panama	0.10	0.05	0.05	0.01	0.03	0.01	0.01	0.00	219
Caribbean_Coast_of_Dominican_Republic	0.08	0.03	0.03	0.02	0.02	0.00	0.00	0.00	168
San_Andres_and_Providencia	0.08	0.05	0.05	0.01	0.02	0.01	0.01	0.00	18
Caribbean_Coast_of_Costa_Rica	0.07	0.04	0.04	0.01	0.02	0.01	0.01	0.00	46
Caribbean_Coast_of_Nicaragua	0.05	0.04	0.04	0.01	0.03	0.01	0.01	0.01	147
Bonaire	0.04	0.02	0.02	0.01	0.01	0.00	0.00	0.00	14
Aruba	0.04	0.03	0.03	0.01	0.02	0.01	0.01	0.00	12
Veracruz_Mexico	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.00	185
Curacao	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00	26
Saint_Vincent_and_the_Grenadines	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00	25
Turks_and_Caicos_Islands	0.03	0.01	0.01	0.01	0.01	0.00	0.00	0.00	118
Dominica	0.03	0.01	0.01	0.01	0.01	0.00	0.00	0.00	30
Montserrat	0.03	0.02	0.02	0.00	0.01	0.00	0.00	0.00	11
Tamaulipas_Mexico	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00	147
Puerto_Rico_and_Virgin_Islands	0.03	0.01	0.01	0.00	0.01	0.00	0.00	0.00	223
Saint_Lucia	0.03	0.01	0.02	0.01	0.01	0.00	0.00	0.00	28
Guadeloupe	0.03	0.01	0.01	0.00	0.01	0.00	0.00	0.00	67
Atlantic_Coast_of_Dominican_Republic	0.02	0.01	0.01	0.00	0.01	0.00	0.00	0.00	157
Grenada	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	26
Martinique	0.02	0.01	0.01	0.00	0.01	0.00	0.00	0.00	40
Saint_Kitts_and_Nevis	0.02	0.01	0.01	0.00	0.01	0.00	0.00	0.00	28
Tabasco_and_Campeche_Mexico	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	227
Saba_and_Saint_Eustatius	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	5
Central_Coast_of_Venezuela	0.02	0.01	0.01	0.00	0.01	0.00	0.00	0.00	396
Antigua_and-Barbuda	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	32

PTWC Message #7

ZCZC
WECA41 PHEB 231830
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 7...TEST
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI
1830 UTC THU MAR 23 2023

...THIS MESSAGE IS FOR TEST PURPOSES ONLY...
...TEST FINAL TSUNAMI THREAT MESSAGE TEST...

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

THIS IS A TEST MESSAGE. THIS MESSAGE IS ISSUED FOR INFORMATION ONLY IN SUPPORT OF THE UNESCO/IOC TSUNAMI AND OTHER COASTAL HAZARDS WARNING SYSTEM FOR THE CARIBBEAN AND ADJACENT REGIONS AND IS MEANT FOR NATIONAL AUTHORITIES IN EACH COUNTRY OF THAT SYSTEM.

THIS IS A TEST MESSAGE. NATIONAL AUTHORITIES WILL DETERMINE THE APPROPRIATE LEVEL OF ALERT FOR EACH COUNTRY AND MAY ISSUE ADDITIONAL OR MORE REFINED INFORMATION.

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

TEST... PRELIMINARY EARTHQUAKE PARAMETERS ...TEST

* MAGNITUDE 7.6
* ORIGIN TIME 1400 UTC MAR 23 2023
* COORDINATES 16.1 NORTH 87.5 WEST
* DEPTH 11 KM / 7 MILES
* LOCATION NORTH OF HONDURAS

TEST... EVALUATION ...TEST

* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 7.6 OCCURRED NORTH OF HONDURAS AT 1400 UTC ON THURSDAY MARCH 23 2023.

* THIS IS A TEST MESSAGE. BASED ON ALL AVAILABLE DATA... THE TSUNAMI THREAT FROM THIS EARTHQUAKE HAS PASSED AND THERE IS NO FURTHER THREAT.

TEST... TSUNAMI THREAT FORECAST...UPDATED ...TEST

* THIS IS A TEST MESSAGE. THE TSUNAMI THREAT HAS NOW LARGELY PASSED.

TEST... RECOMMENDED ACTIONS ...TEST

- * THIS IS A TEST MESSAGE. GOVERNMENT AGENCIES RESPONSIBLE FOR ANY IMPACTED COASTAL AREAS SHOULD MONITOR CONDITIONS AT THE COAST TO DETERMINE IF AND WHEN IT IS SAFE TO RESUME NORMAL ACTIVITIES.
- * THIS IS A TEST MESSAGE. PERSONS LOCATED NEAR IMPACTED COASTAL AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM LOCAL AUTHORITIES.
- * THIS IS A TEST MESSAGE. REMAIN OBSERVANT AND EXERCISE NORMAL CAUTION NEAR THE SEA.

TEST... POTENTIAL IMPACTS ...TEST

- * THIS IS A TEST MESSAGE. MINOR SEA LEVEL FLUCTUATIONS UP TO 30 CM ABOVE AND BELOW THE NORMAL TIDE MAY OCCUR IN COASTAL AREAS NEAR THE EARTHQUAKE OVER THE NEXT FEW HOURS.... AND CONTINUING FOR UP TO SEVERAL HOURS.

TEST... TSUNAMI OBSERVATIONS ...TEST

- * THIS IS A TEST MESSAGE. THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE		MAXIMUM TSUNAMI		WAVE PERIOD	
	LAT	LO	(UTC)	HEIGHT	PERIOD	(MIN)		
LE PRECHEUR MARTINI	14.8N	61.2W	1828	0.02M/	0.1FT	20		
TUXPAN MX	21.0N	97.3W	1821	0.03M/	0.1FT	22		
DESHAIES GUADELOUPE	16.3N	61.8W	1817	0.02M/	0.1FT	28		
CULEBRA IS PR	18.3N	65.3W	1809	0.01M/	0.0FT	14		
GRAND ISLE LA	29.3N	90.0W	1806	0.06M/	0.2FT	24		
ISABELII VIEQUES PR	18.2N	65.4W	1801	0.01M/	0.0FT	22		
ST CROIX VI	17.7N	64.7W	1740	0.01M/	0.0FT	16		
YABUCOA PR	18.1N	65.8W	1736	0.02M/	0.1FT	26		
MAGUEYES ISLAND PR	18.0N	67.0W	1734	0.02M/	0.1FT	18		
ORANGESTAD AW	12.5N	70.0W	1734	0.03M/	0.1FT	24		
GUAYANILLA PR	18.0N	66.8W	1723	0.01M/	0.0FT	14		
LIMON CR	10.0N	83.0W	1727	0.04M/	0.1FT	26		
MONA ISLAND PR	18.1N	67.9W	1716	0.02M/	0.1FT	28		
PILOTS STATION LA	28.9N	89.4W	1712	0.08M/	0.3FT	22		
PORT AU PRINCE HT	18.5N	72.4W	1710	0.08M/	0.3FT	28		
SANTA MARTA CO	11.2N	74.2W	1712	0.08M/	0.3FT	22		
BARAHONA DO	18.2N	71.1W	1707	0.02M/	0.1FT	28		
PUERTO PLATA DO	19.8N	70.7W	1642	0.01M/	0.0FT	18		

PUERTO BARRIOS GT	15.7N	88.6W	1620	0.85M/	2.8FT	24
PORT OF BELIZE BZ	17.5N	88.2W	1557	0.93M/	3.0FT	26
ISLA MUJERES MX	21.3N	86.7W	1546	0.55M/	1.8FT	18
CAYMAN BRAC KY	19.7N	79.8W	1543	0.46M/	1.5FT	26
LITTLE CAYMAN KY	19.7N	80.1W	1530	0.61M/	2.0FT	26
GUN BAY KY	19.3N	81.1W	1525	0.56M/	1.8FT	26
GEORGE TOWN KY	19.3N	81.4W	1516	0.60M/	2.0FT	20
GEORGE TOWN KY	19.3N	81.4W	1518	0.60M/	2.0FT	22
PUERTO MORELOS MX	20.9N	86.9W	1514	0.61M/	2.0FT	22
PUERTO MORELOS MX	20.9N	86.9W	1511	0.61M/	2.0FT	16
PUERTO MORELOS MX	20.9N	86.9W	1512	0.61M/	2.0FT	24
SIAN KAN MX	19.3N	87.4W	1503	0.77M/	2.5FT	14
CEIBA CABOTAGE HN	15.8N	86.8W	1457	2.16M/	7.1FT	20
CARRIE BOW CAY BZ	16.8N	88.1W	1427	2.84M/	9.3FT	24
PUERTO CORTES HN	15.8N	88.0W	1425	2.94M/	9.7FT	22
ROATAN ISLAND HN	16.3N	86.5W	1419	1.70M/	5.6FT	16

TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

* THIS IS A TEST MESSAGE. THIS WILL BE THE FINAL STATEMENT
ISSUED FOR THIS EVENT UNLESS NEW INFORMATION IS RECEIVED OR
THE SITUATION CHANGES.

* THIS IS A TEST MESSAGE. AUTHORITATIVE INFORMATION ABOUT THE
EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON
THE INTERNET AT EARTHQUAKE.USGS.GOV.

* THIS IS A TEST MESSAGE. FURTHER INFORMATION ABOUT THIS EVENT
MAY BE FOUND AT WWW.TSUNAMI.GOV.

* THIS IS A TEST MESSAGE. COASTAL REGIONS OF THE US GULF
COAST... US EAST COAST... AND THE MARITIME PROVINCES OF
CANADA SHOULD REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER
MESSAGES THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST
MESSAGE.

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Mount Pelée Scenario

Message Chronology issued by the PTWC

Mount Pelée

Date	Time (UTC)	PTWC	
		Type of Product	Transmission Method
3/23/23	1400	- - - - Volcano Flank Collapse Occurs - - - -	
3/23/23	1400	Dummy	NWWS, GTS, EMWIN, AISR, Fax, Email
3/23/23	1407	Initial Tsunami Threat Message #1	Email
3/23/23	1430	Tsunami Threat Message #2	Email
3/23/23	1500	Tsunami Threat Message #3	Email
3/23/23	1530	Tsunami Threat Message #4	Email
3/23/23	1600	Tsunami Threat Message #5	Email
3/23/23	1630	Final Tsunami Threat Message #6	Email

PTWC Message #1

ZCZC
WECA41 PHEB 231407
TSUCAX

WMO ID

AWIPS ID

TEST...TSUNAMI MESSAGE NUMBER 1...TEST
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI
1407 UTC THU MAR 23 2023

...THIS MESSAGE IS FOR THE CARIBE WAVE 23 EXERCISE ONLY...
...TEST TSUNAMI THREAT MESSAGE TEST...

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

THIS IS A TEST MESSAGE. THIS MESSAGE IS ISSUED FOR INFORMATION ONLY IN SUPPORT OF THE UNESCO/IOC TSUNAMI AND OTHER COASTAL HAZARDS WARNING SYSTEM FOR THE CARIBBEAN AND ADJACENT REGIONS AND IS MEANT FOR NATIONAL AUTHORITIES IN EACH COUNTRY OF THAT SYSTEM.

THIS IS A TEST MESSAGE. NATIONAL AUTHORITIES WILL DETERMINE THE APPROPRIATE LEVEL OF ALERT FOR EACH COUNTRY AND MAY ISSUE ADDITIONAL OR MORE REFINED INFORMATION.

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

TEST... TSUNAMI SOURCE EVENT PARAMETERS ...TEST

* ORIGIN TIME 1352 UTC MAR 23 2023
* COORDINATES 14.8 NORTH 61.2 WEST
* LOCATION MOUNT PELEE VOLCANO... MARTINIQUE

TEST... EVALUATION ...TEST

- * THIS IS A TEST MESSAGE. THE OBSERVATORY FOR MOUNT PELEE VOLCANO ON MARTINIQUE REPORTS A FLANK COLLAPSE OF THE VOLCANO AROUND 1350 UTC WITH MATERIAL ENTERING THE SEA AROUND 1352 UTC ON THURSDAY MARCH 23 2023.
- * THIS IS A TEST MESSAGE. A TSUNAMI HAS BEEN OBSERVED.
- * THIS IS A TEST MESSAGE. BASED ON THIS INFORMATION... WIDESPREAD HAZARDOUS TSUNAMI WAVES ARE POSSIBLE.
- * THIS IS A TEST MESSAGE. IT IS NOT POSSIBLE TO FORECAST TSUNAMI IMPACTS FROM THIS EVENT BUT THIS CENTER WILL CONTINUE TO MONITOR AND REPORT TSUNAMI OBSERVATIONS UNTIL IT APPEARS THE THREAT HAS PASSED.

TEST... TSUNAMI THREAT FORECAST ...TEST

* THIS IS A TEST MESSAGE. HAZARDOUS TSUNAMI WAVES FROM THIS EVENT ARE POSSIBLE WITHIN THE NEXT THREE HOURS ALONG SOME COASTS OF

DOMINICA... MARTINIQUE... SAINT LUCIA... GUADELOUPE...
SAINT VINCENT... MONTSERRAT... BARBADOS... SAINT KITTS...
SINT EUSTATIUS... GRENADA... SABA... US VIRGIN IS...
ANTIGUA... BARBUDA... SINT MAARTEN... ANGUILLA... TRINIDAD
TOBAGO... BONAIRE... BR VIRGIN IS... PUERTO RICO... SAINT
MARTIN... SAINT BARTHELEMY... DOMINICAN REP...
VENEZUELA... ARUBA... CURACAO... HAITI... TURKS N
CAICOS... BAHAMAS... CUBA... COLOMBIA... BERMUDA...
PANAMA... CAYMAN ISLANDS AND JAMAICA

TEST... RECOMMENDED ACTIONS ...TEST

- * THIS IS A TEST MESSAGE. GOVERNMENT AGENCIES RESPONSIBLE FOR THREATENED COASTAL AREAS SHOULD TAKE ACTION TO INFORM AND INSTRUCT ANY COASTAL POPULATIONS AT RISK IN ACCORDANCE WITH THEIR OWN EVALUATION... PROCEDURES AND THE LEVEL OF THREAT.
- * THIS IS A TEST MESSAGE. PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND LOCAL AUTHORITIES.

TEST... ESTIMATED TIMES OF ARRIVAL ...TEST

* THIS IS A TEST MESSAGE. ESTIMATED TIMES OF ARRIVAL -ETA- OF THE INITIAL TSUNAMI WAVE FOR PLACES WITHIN THE REGION IDENTIFIED WITH A POTENTIAL TSUNAMI THREAT. ACTUAL ARRIVAL TIMES MAY DIFFER, AND THE INITIAL WAVE MAY NOT BE THE LARGEST, NOR MAY A TSUNAMI BE OBSERVED IN ALL THESE LOCATIONS. A TSUNAMI IS A SERIES OF WAVES AND THE TIME BETWEEN WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	REGION	COORDINATES		ETA(UTC)	
ROSEAU	DOMINICA	15.3N	61.4W	1401	03/23
FORT DE FRANCE	MARTINIQUE	14.6N	61.1W	1403	03/23
CASTRIES	SAINT LUCIA	14.0N	61.0W	1403	03/23
BASSE TERRE	GUADELOUPE	16.0N	61.7W	1411	03/23
KINGSTOWN	SAINT VINCENT	13.1N	61.2W	1417	03/23
PLYMOUTH	MONTSERRAT	16.7N	62.2W	1423	03/23
BRIDGETOWN	BARBADOS	13.1N	59.6W	1432	03/23
BASSETERRE	SAINT KITTS	17.3N	62.7W	1435	03/23
SINT EUSTATIUS	SINT EUSTATIUS	17.5N	63.0W	1444	03/23
SAINT GEORGES	GRENADA	12.0N	61.8W	1444	03/23
SABA	SABA	17.6N	63.2W	1446	03/23

CHRISTIANSTED	US VIRGIN IS	17.7N	64.7W	1446	03/23
SAINT JOHNS	ANTIGUA	17.1N	61.9W	1500	03/23
PALMETTO POINT	BARBUDA	17.6N	61.9W	1502	03/23
SIMPSON BAAI	SINT MAARTEN	18.0N	63.1W	1503	03/23
THE VALLEY	ANGUILLA	18.3N	63.1W	1511	03/23
PIRATES BAY	TRINIDAD TOBAGO	11.3N	60.6W	1512	03/23
ONIMA	BONAIRE	12.3N	68.3W	1512	03/23
ANEGADA	BR VIRGIN IS	18.8N	64.3W	1515	03/23
SAN JUAN	PUERTO RICO	18.5N	66.1W	1516	03/23
MAYAGUEZ	PUERTO RICO	18.2N	67.2W	1518	03/23
BAIE LUCAS	SAINT MARTIN	18.1N	63.0W	1522	03/23
SAINT BARTHELEM	SAINT BARTHELEMY	17.9N	62.8W	1522	03/23
BAIE GRAND CASE	SAINT MARTIN	18.1N	63.1W	1529	03/23
SANTO DOMINGO	DOMINICAN REP	18.5N	69.9W	1531	03/23
MAIQUETIA	VENEZUELA	10.6N	67.0W	1533	03/23
ORANJESTAD	ARUBA	12.5N	70.0W	1533	03/23
CHARLOTTE AMALI	US VIRGIN IS	18.3N	64.9W	1534	03/23
CABO ENGANO	DOMINICAN REP	18.6N	68.3W	1535	03/23
BAIE BLANCHE	SAINT MARTIN	18.1N	63.0W	1541	03/23
CUMANA	VENEZUELA	10.5N	64.2W	1542	03/23
PUERTO PLATA	DOMINICAN REP	19.8N	70.7W	1545	03/23
WILLEMSTAD	CURACAO	12.1N	68.9W	1547	03/23
JACAMEL	HAITI	18.1N	72.5W	1548	03/23
GRAND TURK	TURKS N CAICOS	21.5N	71.1W	1553	03/23
CAP HAITEN	HAITI	19.8N	72.2W	1601	03/23
PORT OF SPAIN	TRINIDAD TOBAGO	10.6N	61.5W	1604	03/23
MAYAGUANA	BAHAMAS	22.3N	73.0W	1608	03/23
WEST CAICOS	TURKS N CAICOS	21.7N	72.5W	1610	03/23
ROADTOWN	BR VIRGIN IS	18.4N	64.6W	1617	03/23
BARACOA	CUBA	20.4N	74.5W	1621	03/23
SANTA MARTA	COLOMBIA	11.2N	74.2W	1622	03/23
GREAT INAGUA	BAHAMAS	20.9N	73.7W	1622	03/23
SAN SALVADOR	BAHAMAS	24.1N	74.5W	1623	03/23
JEREMIE	HAITI	18.6N	74.1W	1624	03/23
SANTIAGO D CUBA	CUBA	19.9N	75.8W	1631	03/23
LONG ISLAND	BAHAMAS	23.3N	75.1W	1632	03/23
ESSO PIER	BERMUDA	32.4N	64.7W	1637	03/23
CARTAGENA	COLOMBIA	10.4N	75.6W	1638	03/23
GIBARA	CUBA	21.1N	76.1W	1638	03/23
EXUMA	BAHAMAS	23.6N	75.9W	1640	03/23
CAT ISLAND	BAHAMAS	24.4N	75.5W	1641	03/23
CROOKED ISLAND	BAHAMAS	22.7N	74.1W	1642	03/23
BARRANQUILLA	COLOMBIA	11.1N	74.9W	1646	03/23
ELEUTHERA ISLAN	BAHAMAS	25.2N	76.1W	1647	03/23
RIOHACHA	COLOMBIA	11.6N	72.9W	1650	03/23
ANDROS ISLAND	BAHAMAS	25.0N	77.9W	1655	03/23
ALIGANDI	PANAMA	9.2N	78.0W	1659	03/23
CAYMAN BRAC	CAYMAN ISLANDS	19.7N	79.9W	1700	03/23
KINGSTON	JAMAICA	17.9N	76.9W	1704	03/23
PUERTO CARRETO	PANAMA	8.8N	77.6W	1706	03/23

TEST... POTENTIAL IMPACTS ...TEST

-
- * THIS IS A TEST MESSAGE. A TSUNAMI IS A SERIES OF WAVES. THE TIME BETWEEN WAVE CRESTS CAN VARY FROM 5 MINUTES TO AN HOUR. THE HAZARD MAY PERSIST FOR MANY HOURS OR LONGER AFTER THE INITIAL WAVE.
 - * THIS IS A TEST MESSAGE. IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION OF THE SHORELINE.
 - * THIS IS A TEST MESSAGE. IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT THE TIME OF THE MAXIMUM TSUNAMI WAVES.
 - * THIS IS A TEST MESSAGE. PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE CRUSHED BY DEBRIS IN THE WATER... OR BE SWEEPED OUT TO SEA.

TEST... TSUNAMI OBSERVATIONS ...TEST

-
- * THIS IS A TEST MESSAGE. THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH RESPECT TO THE NORMAL TIDE LEVEL.

	GAUGE COORDINATES	TIME OF MEASURE (UTC)	MAXIMUM TSUNAMI HEIGHT	WAVE PERIOD (MIN)
GAUGE LOCATION	LAT	LON		
LE PRECHEUR MARTINI	14.8N	61.2W	1357	7.81M/25.6FT 16

TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

-
- * THIS IS A TEST MESSAGE. THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF THE SITUATION WARRANTS.
 - * THIS IS A TEST MESSAGE. FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT WWW.TSUNAMI.GOV.
 - * THIS IS A TEST MESSAGE. COASTAL REGIONS OF THE US GULF COAST... US EAST COAST... AND THE MARITIME PROVINCES OF CANADA SHOULD REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST MESSAGE.

\$\$

PTWC Message #6

ZCZC

WECA41 PHEB 231630

TSUCAX

WMO ID

AWIPS ID

TEST...TSUNAMI MESSAGE NUMBER 6...TEST
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI
1630 UTC THU MAR 23 2023

...THIS MESSAGE IS FOR THE CARIBE WAVE 23 EXERCISE ONLY...
...TEST FINAL TSUNAMI THREAT MESSAGE TEST...

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

THIS IS A TEST MESSAGE. THIS MESSAGE IS ISSUED FOR INFORMATION ONLY IN SUPPORT OF THE UNESCO/IOC TSUNAMI AND OTHER COASTAL HAZARDS WARNING SYSTEM FOR THE CARIBBEAN AND ADJACENT REGIONS AND IS MEANT FOR NATIONAL AUTHORITIES IN EACH COUNTRY OF THAT SYSTEM.

THIS IS A TEST MESSAGE. NATIONAL AUTHORITIES WILL DETERMINE THE APPROPRIATE LEVEL OF ALERT FOR EACH COUNTRY AND MAY ISSUE ADDITIONAL OR MORE REFINED INFORMATION.

**** NOTICE **** NOTICE **** NOTICE **** NOTICE **** NOTICE ****

TEST... TSUNAMI SOURCE EVENT PARAMETERS ...TEST

* ORIGIN TIME 1352 UTC MAR 23 2023
* COORDINATES 14.8 NORTH 61.2 WEST
* LOCATION MOUNT PELEE VOLCANO... MARTINIQUE

TEST... EVALUATION ...TEST

* THIS IS A TEST MESSAGE. THE OBSERVATORY FOR MOUNT PELEE VOLCANO ON MARTINIQUE REPORTS A FLANK COLLAPSE OF THE VOLCANO AROUND 1350 UTC WITH MATERIAL ENTERING THE SEA AROUND 1352 UTC ON THURSDAY MARCH 23 2023.

* THIS IS A TEST MESSAGE. A SIGNIFICANT TSUNAMI WAS OBSERVED.

* THIS IS A TEST MESSAGE. BASED ON ALL AVAILABLE DATA... THE TSUNAMI THREAT FROM THIS VOLCANIC EVENT HAS NOW PASSED AND THERE IS NO FURTHER THREAT.

TEST... TSUNAMI THREAT FORECAST...UPDATED ...TEST

* THIS IS A TEST MESSAGE. THE TSUNAMI THREAT HAS NOW LARGELY PASSED.

TEST... RECOMMENDED ACTIONS ...TEST

- * THIS IS A TEST MESSAGE. GOVERNMENT AGENCIES RESPONSIBLE FOR ANY IMPACTED COASTAL AREAS SHOULD MONITOR CONDITIONS AT THE COAST TO DETERMINE IF AND WHEN IT IS SAFE TO RESUME NORMAL ACTIVITIES.
- * THIS IS A TEST MESSAGE. PERSONS LOCATED NEAR IMPACTED COASTAL AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM LOCAL AUTHORITIES.
- * THIS IS A TEST MESSAGE. REMAIN OBSERVANT AND EXERCISE NORMAL CAUTION NEAR THE SEA.

TEST... POTENTIAL IMPACTS ...TEST

- * THIS IS A TEST MESSAGE. MINOR SEA LEVEL FLUCTUATIONS UP TO 30 CM ABOVE AND BELOW THE NORMAL TIDE MAY OCCUR IN SOME COASTAL AREAS OVER THE NEXT FEW HOURS... CONTINUING FOR UP TO SEVERAL HOURS.

TEST... TSUNAMI OBSERVATIONS ...TEST

- * THIS IS A TEST MESSAGE. THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE (UTC)	MAXIMUM TSUNAMI HEIGHT	WAVE PERIOD (MIN)
	LAT	LON			
TORTOLA VI UK	18.4N	64.6W	1628	0.30M/ 1.0FT	26
CAP HAITIEN HT	19.8N	72.2W	1608	0.03M/ 0.1FT	24
PUERTO PLATA DO	19.8N	70.7W	1559	0.04M/ 0.1FT	18
CULEBRA IS PR	18.3N	65.3W	1551	0.31M/ 1.0FT	14
BARAHONA DO	18.2N	71.1W	1544	0.31M/ 1.0FT	18
CHARLOTTE-AMALIE VI	18.3N	64.9W	1541	0.33M/ 1.1FT	24
ORANGESTAD AW	12.5N	70.0W	1544	0.44M/ 1.5FT	26
LAMESHURBAYSTJOHNVI	18.3N	64.7W	1541	0.09M/ 0.3FT	22
BLOWING POINT AI	18.2N	63.1W	1538	0.51M/ 1.7FT	22
BULLEN BAY CURACAO	12.2N	69.0W	1537	0.37M/ 1.2FT	26
SALINAS PR	17.9N	66.2W	1531	0.47M/ 1.5FT	16
PUNTA CANA DO	18.5N	68.4W	1532	0.43M/ 1.4FT	22
SAINT MARTIN FR	18.1N	63.1W	1530	0.57M/ 1.9FT	26
ARECIBO PR	18.5N	66.7W	1530	0.16M/ 0.5FT	22

MAYAGUEZ PR	18.2N	67.2W	1525	0.21M/	0.7FT	18
SAN JUAN PR	18.5N	66.1W	1528	0.10M/	0.3FT	28
MAGUEYES ISLAND PR	18.0N	67.0W	1527	0.67M/	2.2FT	24
ISABELII VIEQUES PR	18.2N	65.4W	1519	0.26M/	0.9FT	14
MONA ISLAND PR	18.1N	67.9W	1524	0.38M/	1.3FT	26
BARBUDA AG	17.6N	61.8W	1520	0.46M/	1.5FT	28
SCARBOROUGH TT	11.2N	60.7W	1514	0.24M/	0.8FT	28
DART 42407	15.3N	68.2W	1509	0.07M/	0.2FT	22
ESPERANZA VIEQUES P	18.1N	65.5W	1508	0.60M/	2.0FT	16
GUAYANILLA PR	18.0N	66.8W	1508	0.74M/	2.4FT	28
YABUCOA PR	18.1N	65.8W	1511	0.78M/	2.5FT	22
LIMETREE VI	17.7N	64.8W	1502	0.68M/	2.2FT	28
ST CROIX VI	17.7N	64.7W	1455	0.47M/	1.6FT	16
PRICKLEY BAY GD	12.0N	61.8W	1454	1.14M/	3.7FT	18
PARHAM AT	17.1N	61.8W	1449	0.42M/	1.4FT	20
BASSETERRE KN	17.3N	62.7W	1441	0.97M/	3.2FT	24
PORT ST CHARLES BB	13.3N	59.6W	1443	0.72M/	2.4FT	26
SOUFRIERE ST LUCIA	13.9N	61.1W	1438	1.72M/	5.6FT	18
GANTERS BAY ST LUCI	14.0N	61.0W	1438	2.09M/	6.9FT	26
VIEUX FORT ST LUCIA	13.7N	61.0W	1431	0.93M/	3.0FT	26
POINT A PITRE GP	16.2N	61.5W	1436	0.76M/	2.5FT	26
CALLIAQUA VC	13.1N	61.2W	1433	0.66M/	2.2FT	20
DESIRADE GUADELOUPE	16.3N	61.1W	1433	0.56M/	1.9FT	22
LE ROBERT MARTINIQUE	14.7N	60.9W	1428	1.07M/	3.5FT	22
DESHAIES GUADELOUPE	16.3N	61.8W	1425	0.97M/	3.2FT	16
DENNERY ST LUCIA LC	13.9N	60.9W	1424	0.82M/	2.7FT	24
CHATEAUBELAIR VC	13.3N	61.2W	1426	1.62M/	5.3FT	14
PORTSMOUTH DM	15.6N	61.5W	1419	1.24M/	4.1FT	20
FORT DE FRANCE MQ	14.6N	61.1W	1408	4.41M/	14.5FT	24
ROSEAU DM	15.3N	61.4W	1411	1.96M/	6.4FT	22
LE PRECHEUR MARTINI	14.8N	61.2W	1357	7.81M/	25.6FT	16

TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

-
- * THIS IS A TEST MESSAGE. THIS WILL BE THE FINAL STATEMENT
ISSUED FOR THIS EVENT UNLESS NEW INFORMATION IS RECEIVED OR
THE SITUATION CHANGES.
 - * THIS IS A TEST MESSAGE. FURTHER INFORMATION ABOUT THIS EVENT
MAY BE FOUND AT WWW.TSUNAMI.GOV.
 - * THIS IS A TEST MESSAGE. COASTAL REGIONS OF THE US GULF
COAST... US EAST COAST... AND THE MARITIME PROVINCES OF
CANADA SHOULD REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER
MESSAGES THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST
MESSAGE.

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NNNN

Central American Tsunami Advisory Center CATAC



Participation at CW 2023 – tsunami products for the Central American countries

1. Text messages in Spanish

- Similar Format as PTWC
- Use of local times:
1) Central America; 2) Panama

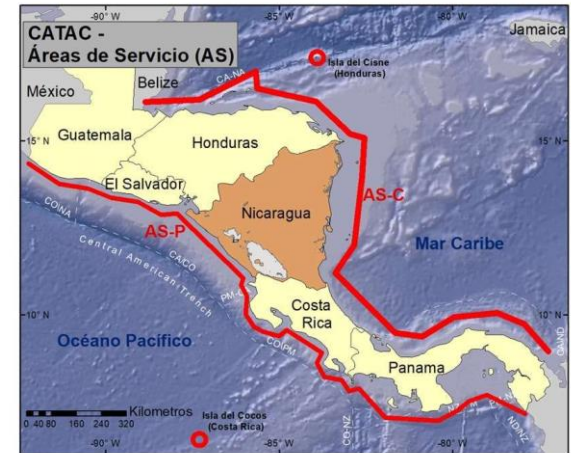
2. Text messages in English

- PTWC format
- Use of UT

3. Graphic products (SeisComP TOAST)

- Prediction of amplitudes at Sea Gauges
- Amplitudes at coastal zones

4. Tsunami propagation movie (MPG3)

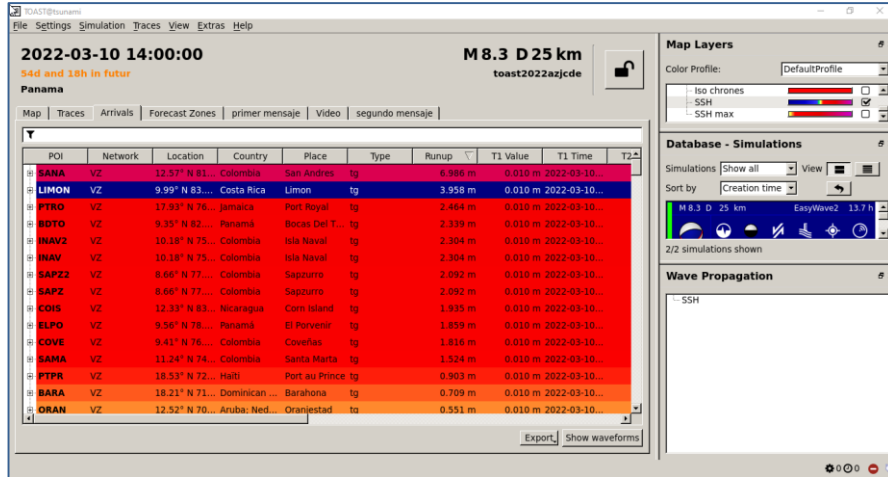


CATAC – Areas of responsibility

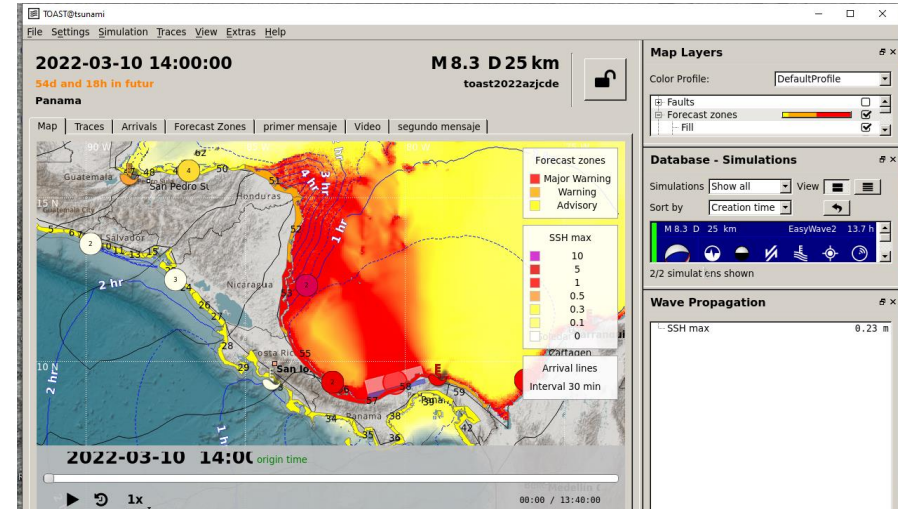


CATAC – Areas of monitoring

Tsunami products prepared with SeisComP TOAST

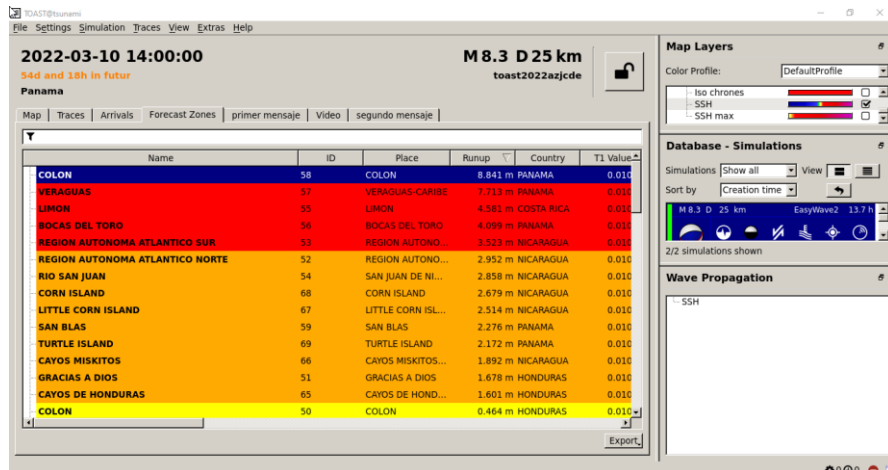


List: Predicted amplitudes at Sea Gauges



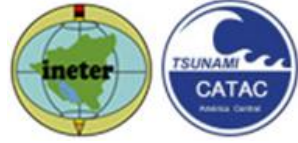
Graphical products:

1. Predicted amplitudes at Sea Gauges
2. Predicted amplitudes at coastal zones
3. Tsunami propagation movie



List: Predicted amplitudes at coastal zones

Central American Tsunami Advisory Center CATAC



Participation at CW 2023 – tsunami products for the Central American countries

Distribution methods:

- 1. Text messages in Spanish: email**
- 2. Text messages in English: WMO/GTS**
- 3. Graphic products: email, WhatsApp, Telegram, CATAC webpage**

Member State Participation The *TsunamiZone* Registration

TsunamiZone registration is used to track the number of people and organizations participating in the exercise.

The screenshot shows the TsunamiZone website homepage. At the top is a navigation bar with links: Home, TsunamiZone Regions, Other Languages, Contact Us, Search, and Login. Below this is a large banner image of a beach with a person running. The text 'The TsunamiZone' is overlaid on the left. A secondary navigation bar contains links: Register Here (highlighted with a red box), Know Your Zone, Who is Participating?, How to Participate?, Resources, News & Events, and Partners & Sponsors. Below the navigation bar is a green alert banner that reads 'No Tsunami Warning, Advisory, Watch, or Threat'. The main content area is divided into two columns. The left column is titled 'WELCOME TO THE TSUNAMIZONE!' and contains text about preparedness, links for 'ESPAÑOL' and 'FRANÇAIS', and a graphic with the text 'Know how to recognize a tsunami, and what to do to save your life.' The right column is titled 'OFFICIAL ACTIVITIES' and lists various events: March 23 (CARIBE WAVE 2023), March 26-31 (Alaska's Tsunami Preparedness Week), March 27-31 (California's Tsunami Preparedness Week), April (Hawaii's Tsunami Awareness Month), June (LANTEX 2023), and November 5 (World Tsunami Awareness Day). It also mentions ongoing activities and a virtual fair.

Home TsunamiZone Regions Other Languages Contact Us Search Login

The TsunamiZone

Register Here Know Your Zone Who is Participating? How to Participate? Resources News & Events Partners & Sponsors

Alert Status from [tsunami.gov](#)

No Tsunami Warning, Advisory, Watch, or Threat

WELCOME TO THE TSUNAMIZONE!

Everyone, everywhere should know how to be prepared for tsunamis and what to do to be safe. This is true for people who live or work near the ocean, but also for anyone who may visit someday. Are you in the Zone?

TsunamiZone.org provides [suggestions](#) and [resources](#) for your family or organization to "[know your zone](#)" and to [learn](#) how to be safe.

Be counted among people and organizations worldwide by [registering](#) your 2023 tsunami preparedness activities!

ESPAÑOL
FRANÇAIS

Know how to recognize a tsunami, and what to do to save your life.

2022 World Tsunami Awareness Day was Saturday, November 5

OFFICIAL ACTIVITIES

March 23
[CARIBE WAVE 2023](#)

March 26 – 31
[Alaska's Tsunami Preparedness Week](#)

March 27 – 31
[California's Tsunami Preparedness Week](#)

April
[Hawaii's Tsunami Awareness Month](#)


June
LANTEX 2023

November 5
[World Tsunami Awareness Day](#)

Ongoing activities:
[Visit the Virtual Fair](#) hosted by the Redwood Coast Tsunami Work Group to learn about earthquake and tsunami hazards of California's North Coast.

TWFP and NTWC should register on TsunamiZone to be part of the statistical count. Independent of registering, they will receive the simulated bulletins from PTWC.


[Home](#)
[TsunamiZone Regions](#)
[Other Languages](#)
[Contact Us](#)
[Search](#)
[Login](#)



[Register Here](#)
[Know Your Zone](#)
[Who is Participating?](#)
[How to Participate?](#)
[Resources](#)
[News & Events](#)
[Partners & Sponsors](#)

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[ESPAÑOL](#)
[FRANÇAIS](#)

OFFICIAL ACTIVITIES

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June
 LANTEX 2023

November 5
[World Tsunami Awareness Day](#)

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[Visit the Virtual Fair](#) hosted by the Redwood Coast Tsunami Work Group to learn about earthquake and tsunami hazards of California's North Coast.

<https://www.tsunamizone.org/>

Countries can keep track of registration by clicking on « Who is Participating »



2023 CARIBBEAN PARTICIPATION TOTALS

15,029 participants are registered in the 2023 TsunamiZone (as of 01/24/2023 3:25 AM PST).

Category	Participants	Participation totals for each area	Total
Individuals/Families	292		
Childcare and Pre-Schools	171	Antigua and Barbuda	0
K-12 Schools and Districts	8,977	Aruba	55
Colleges and Universities	225	Bahamas	0
Local Government	548	Barbados	107
State Government	959	Belize	0
Federal/National Government (Including Military)	539	Bermuda	212
Tribes/Indigenous Peoples	0	Brazil	0
Businesses	520	Colombia	0
Hotels and Other Lodgings	110	Costa Rica	0
Healthcare	1,202	Cuba	0
Senior Facilities/Communities	111	Curacao	0
Disability/AFN Organizations	5	Dominica	0
Non-Profit Organizations	374	Dominican Republic	0
Neighborhood Groups	30	France	705
Preparedness Organizations	154	Guadeloupe	57
Faith-based Organizations	0	Martinique	648
Museums, Libraries, Parks, etc.	0	Saint Barthelemy	0
Volunteer/Service Clubs	0	Saint Martin	0
Youth Organizations	100	Other France	0
Animal Shelter/Service Providers	0	Grenada	0
Agriculture/Livestock Sector	27	Guatemala	0
Volunteer Radio Groups	198	Guyana	0
Science/Engineering Organizations	192	Guyane	0
Media Organizations	23	Haiti	107
Other	272	Honduras	0
		Jamaica	100

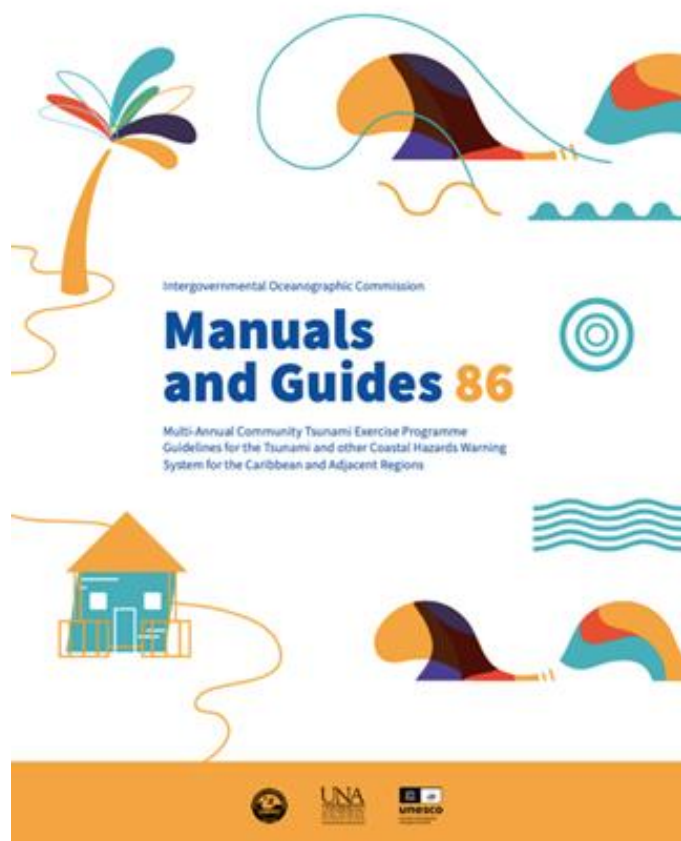
As of 24 Jan 2023, 15,029 participants have registered on the website.

Resources available at caribewave.org

- Manual and Guides 86: Multi-Annual Community Tsunami Exercise Programme Guidelines for the Tsunami and Other Coastal Hazards Warning System for the Caribbean and Adjacent Regions.
- PTWC Enhanced Products and Staging for the Caribbean and Pacific, English
- IOC Manuals “How to plan, conduct and evaluate tsunami exercises” and “Module on Tsunami Exercise” are useful resources.
- CARIBE WAVE 2011 through 2023 Handbooks
- CARIBE WAVE 2013 through 2022 Final and Media Report
- PTWC Communications Plan for the Caribbean

Questions on the exercise can be addressed to the members of the CARIBE WAVE 23 Task Team.

Manual and Guides 86: Multi-Annual Community Tsunami Exercise Programme Guidelines for the Tsunami and other Coastal Hazards Warning System for the Caribbean and Adjacent Regions



- This guide is recommended for Member States to consider CARIBE WAVE Exercises.
- Provides community leaders to conduct and evaluate a tsunami evacuation exercise with a methodology and tools.
- It is particularly relevant for bodies that would be directly exposed to the effects of a tsunami such as local government, schools, associations, and businesses.
- This guide aims to encourage a shared culture of exercises to develop between the municipal authorities tasked with ensuring the safety of those living in their area and community leaders – stakeholders in the social and economic life of the area.
- Posted on <https://unesdoc.unesco.org/ark:/48223/pf0000380540.locale=en>

COVID-19 Considerations

- Note that social/physical distancing and quarantine/lock down measure may still be in effect.
- It is encouraged that MS consider on-line/virtual events or activities to engage the public.
- Participation by the public does not need to be a full tsunami walk, encourage people to check their emergency plan/tsunami route/supplies and register on tsunamizone.org
- Note the CARIBE EWS COVID-19 guidance for Tsunamis - http://www.ioc-tsunami.org/index.php?option=com_content&view=article&id=26796

UNESCO/IOC

ICG/CARIBE EWS

Tsunami Services and Evacuation/Sheltering Considering Physical Distancing Practices

Context

The current COVID-19 response has required changes in workloads, work venues as well as physical distancing practices worldwide. This may create ambiguity or confusion with regards to warning services and tsunami response actions, like evacuation, and the implementation of national response plans. This document clarifies the status of the regional tsunami services, as well as suggests best practices for local and national actions.

Regional Tsunami Services

The Pacific Tsunami Warning Center, as the UNESCO IOC CARIBE EWS Tsunami Service Provider (TSP), continues to operate 24 x 7 to provide tsunami services to the Caribbean and Adjacent Regions according to the [CARIBE EWS Users Guide](#).

In the case that operations were affected, a communication will be issued to its stakeholders, including the CARIBE EWS Tsunami Warning Focal Points (TWFP) and National Tsunami Warning Centers (NTWC). In such circumstances alternative arrangements for regional warning services would be put in place as much as feasible.

Coordination is also maintained with the Caribbean Tsunami Warning Program (CTWP), the Caribbean Tsunami Information Center (CTIC) and the Central American Tsunami Advisory Centre (CATAC).

It is important to reiterate that each country is solely responsible for the safety of its own population from tsunami hazards. The country's NTWC or Emergency Management Agency (EMA) is the authority for issuing a tsunami warning for any or all of its coasts, as the CARIBE EWS TSP information is only advisory.

It is also important to recall that for the case of local tsunamis the natural tsunami warning signals should be the trigger for immediate self-evacuation. Persons along low-lying coasts should self-evacuate and not wait for their National Tsunami Warning Center to issue a tsunami warning.

National and Local Tsunami Services and Evacuation/Sheltering Best Practices during COVID-19

1. 24/7 arrangements of the national agencies to provide timely warnings to the local and national authorities, media and the public, when their action is required.
2. When the NTWC and/or the Emergency Management Agency issues a tsunami warning, the desired action for the public is to evacuate from at-risk locations.
3. The public needs to continue to use natural warning signs for tsunamis as cues for response, i.e. if people are near the coast and experience any of a tsunami's natural warning signs, they should quickly leave at-risk locations and move inland or to higher ground. The natural tsunami warning signs are strong or long ground shaking (from an earthquake), a sudden change of the sea level or a loud roar from the sea (from a tsunami).
4. Immediate life-safety is the priority when evacuations are directed. It is important that the public understands that **AN EVACUATION ORDER TAKES PRIORITY OVER THE STAY-AT-HOME**

Additional Info

- Additional materials will be added to ITIC-CAR (www.caribewave.org).
- Send links of other national pages to christa.vonh@noaa.gov to include on ITIC-CAR.
- This presentation is available on ITIC-CAR website.
- The use of the #CARIBEWAVE and #TSUNAMIREADY hashtags are encouraged to be used before and during the exercise.
- CARIBE WAVE video (available at ITIC-CAR website)

CARIBE WAVE 23 Task Team

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Timeline

ACTION	TIMELINE
Circular Letter Issued by IOC to MS	✓ November 2022
Handbook Draft Circulated among ICG CARIBE EWS, TWFP/NTWC contacts and TT CARIBE WAVE 23	✓ December 2022
Deadline for Comments	✓ December 2022
Exercise Handbook Available Online	✓ January 2023
1st Webinar CW (Overview, PTWC Products)	24 January 2023 – English 25 January 2023 – Spanish 26 January 2023 – French
2nd Webinar CW (Update, Communication Methods, Registration, Questionnaire, Uploading Pictures/Videos)	21 February 2023 - English 22 February 2023 - Spanish 23 February 2023 – French
Countries Indicate Selected Scenario	10 March 2023
Exercise	23 March 2023
Hot-Wash	4 April 2023
Exercise Evaluation Due	13 April 2023
Final Draft Caribe Wave 23 Report 24 April 2023	

Next Webinar

- The second webinar in English will be held on
21 February 2023
- The following will be emphasized:
 - Exercise Updates
 - Communication Methods
 - Registration
 - Post Exercise Questionnaire
 - Media (Uploading Pictures/Videos)
- Link for webinar,
https://meet.goto.com/ITIC/cw23_english_webinar2

Questions, Comments

Thank you for participating!

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