

CARIBE WAVE 2026

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February 24, 2026

2nd Webinar

Rules of Engagement

- If you have a question, write it down in the Q & A section.
- Please use the raise hand symbol to request to speak.

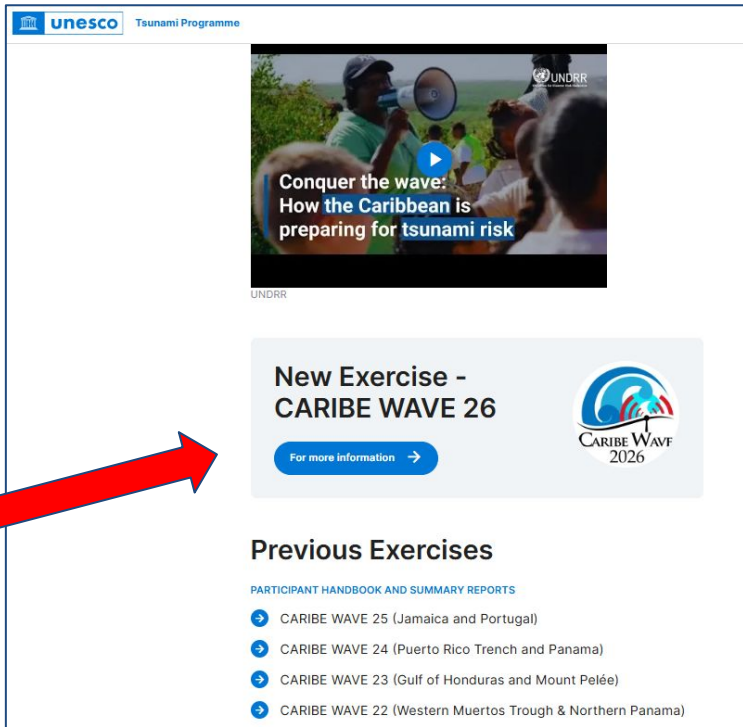
Objectives

In this webinar, the importance of the following will be emphasized:

- Exercise Updates
- Communication Methods
- Registration
- Post-exercise questionnaire
- Media (Uploading Pictures/Videos)

NOTE: The first webinar gave an overview of the simulated PTWC and CATAC products, this will not be covered. For this presentation please go to caribewave.org.

CARIBE WAVE website: caribewave.org



unesco Tsunami Programme

UNDRR

Conquer the wave:
How the Caribbean is
preparing for tsunami risk

UNDRR

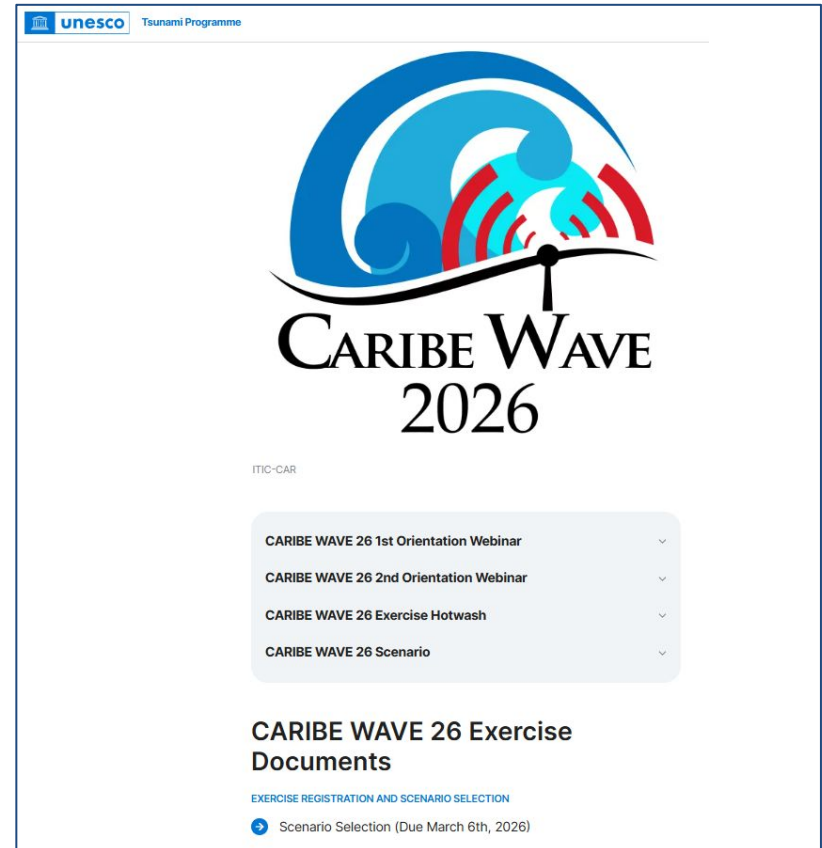
**New Exercise -
CARIBE WAVE 26**

For more information →

Previous Exercises

PARTICIPANT HANDBOOK AND SUMMARY REPORTS

- CARIBE WAVE 25 (Jamaica and Portugal)
- CARIBE WAVE 24 (Puerto Rico Trench and Panama)
- CARIBE WAVE 23 (Gulf of Honduras and Mount Pelée)
- CARIBE WAVE 22 (Western Muertos Trough & Northern Panama)



unesco Tsunami Programme

ITIC-CAR

**CARIBE WAVE
2026**

- CARIBE WAVE 26 1st Orientation Webinar
- CARIBE WAVE 26 2nd Orientation Webinar
- CARIBE WAVE 26 Exercise Hotwash
- CARIBE WAVE 26 Scenario

**CARIBE WAVE 26 Exercise
Documents**

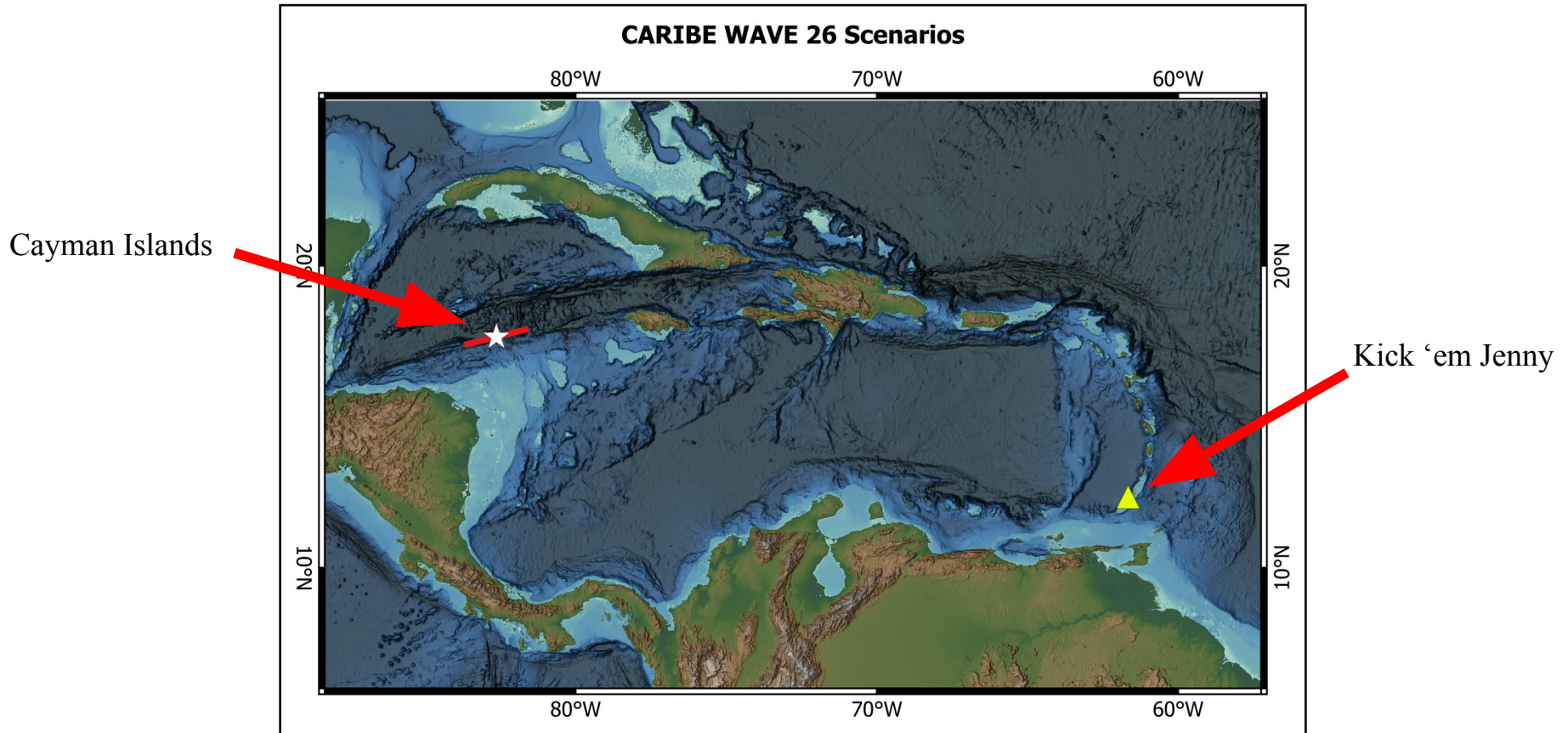
EXERCISE REGISTRATION AND SCENARIO SELECTION

- Scenario Selection (Due March 6th, 2026)

- Reports
- General Guidelines
- Handbook

CARIBE WAVE 26

Earthquake and Tsunami Scenarios



Scenario	Origin Time	Mw	Epicenter
Cayman Islands	15:00:00 UTC	7.6	17.646°N, 82.6285°W
Kick 'em Jenny	19 March 2026	-	36.0°N, 10.7°W

CARIBE WAVE 26 Scenarios by Member State/Territory

DEADLINE TO SELECT A SCENARIO: Thursday, 6 March 2026

Cayman Islands	Kick 'em Jenny
Antigua and Barbuda	Barbados
Aruba	Brazil
Belize	Colombia
Costa Rica	France (Guadeloupe, Guyane, Martinique, Saint Martin, St. Barthelemy)
Guatemala	Grenada
Haiti	Guyana
Honduras	Netherlands - Bonaire, Saba, Sint Eustatius, Curacao, Sint Maarten
Jamaica	St. Lucia
Mexico	St. Vincent and the Grenadines
UK - Cayman Islands	St. Kitts and Nevis
	UK - Bermuda, British Virgin Islands
	US - Puerto Rico, US Virgin Islands
	Venezuela

Dissemination of CARIBE WAVE 26 Products by PTWC and CATAC

PTWC Dummy Message for CARIBE WAVE 26:

On **March 19, 2026 at 1500 UTC**, the initial dummy message will be issued and disseminated over all its standard broadcast channels for the two scenarios.

Center	WMO ID	AWIPS ID	NWWS	GTS/WIS/WMO	GEONET CAST AMERICAS	HRIT/ EMWIN*	AISR	Email
PTWC	WECA41 PHEB	TSUCAX	Yes	Yes	Yes	Yes	Yes	Yes

*Virtual Channel ID (VCID): “20” – EMWIN Priority [1 and 2 bulletins]

Appendix IV. TWC Dummy (Start of Exercise) Messages

PTWC ← **Center**

WECA41 PHEB 191500 ← **WMO ID**

TSUCAX ← **AWIPS ID**

TEST...INITIAL DUMMY START OF EXERCISE MESSAGE...TEST
NWS PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
ISSUED AT 1500Z 19 MAR 2026

...TEST... CARIBE WAVE 26 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 26
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 WEBSITE CARIBEWAVE.ORG. THE EXERCISE
PURPOSE IS TO EXERCISE AND EVALUATE THE CARIBE EWS TSUNAMI
WARNING SYSTEM.

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Simulated Tsunami Messages

As of **1505 and 1510**, PTWC will send via email only the simulated products to the designated CARIBE-EWS, TWFP and NTWC for the Cayman Islands scenario.

- By **6 March 2026**, each Member State must complete the following survey https://www.surveymonkey.com/r/CW26_ScenarioSelection to select the scenario their country will use for the exercise.
- Each country and 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.

***Note correction to the handbook:** CARIBE WAVE 26 exercise will be testing communication between the PTWC and NAVAREA IV, V and VI operators.

Message Chronology issued by the PTWC Cayman Islands

Date	Time (UTC)	PTWC	
		Type of Product	Transmission Method
3/19/26	1500	---- Earthquake Occurs ----	
3/19/26	1500	Dummy	NWWS, WMO/WIS/GTS, EMWIN, AISR, Email
3/19/26	1505	Initial Tsunami Threat Message #1	Email
3/19/26	1515	Tsunami Threat Message #2	Email
3/19/26	1530	Tsunami Threat Message #3 with Forecast and Graphical Enhanced Products	Email
3/19/26	1600	Tsunami Threat Message #4	Email
3/19/26	1700	Tsunami Threat Message #5	Email
3/19/26	1715	Final Tsunami Threat Message #6	Email

Message Chronology issued by the PTWC - Kick 'em Jenny

Date	Time (UTC)	PTWC	
		Type of Product	Transmission Method
3/19/26	1500	---- Eruption Occurs ----	
3/19/26	1500	Dummy	NWWS, GTS, EMWIN, AISR, Email
3/19/26	1510	Initial Tsunami Information Statement #1	Email
3/19/26	1545	Tsunami Threat Message #2	Email
3/19/26	1630	Tsunami Threat Message #3	Email
3/19/26	1730	Tsunami Threat Message #4	Email
3/19/26	1830	Final Tsunami Threat Message #5	Email

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



UNESCO IOC / NOAA
International Tsunami Information Centre
Tsunami Training Video, August 2022

Pacific Tsunami Warning Center (PTWC) Product Staging from the earthquake, through data collection and analyses, to tsunami forecasting, and product generation and dissemination

Please email christa.vonh@noaa.gov
to request the link for the videos.

Dr. Charles “Chip” McCreery
Director, PTWC

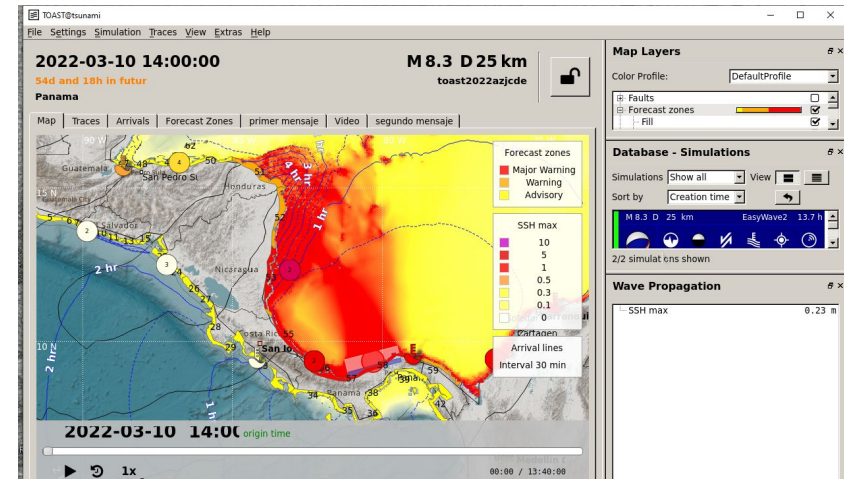




CATAAC Simulated Messages

The Central America Tsunami Advisory Center (CATAAC) will send the simulated products as of **1503 UTC** for the Cayman Islands scenario to Central American countries and regions by agreement with the center.

1. Text message: email, whatsapp, and telegram
2. Graphic products: email



Graphical products:

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

In addition, the products will be published on CATAAC's website: <http://catac.ineter.gob.ni>

For questions, please email: wilfried.strauch@yahoo.com

Message Chronology issued by the CATAC Cayman Islands

Date	Time (UTC)	CATAC	
		Type of Product	Transmission Method
3/19/26	1500	---- Earthquake Occurs ----	
3/19/26	1500	Dummy Message	Email, Whatsapp, and telegram
3/19/26	1503	Initial Tsunami Threat Message #1	Email, Whatsapp, and telegram
3/19/26	1509	Tsunami Threat Message # 2	Email, Whatsapp, and telegram
3/19/26	1530	Tsunami Threat Message #3 Graphical Products	Email, Whatsapp, and telegram
3/19/26	1600	Tsunami Threat Message #4	Email, Whatsapp, and telegram
3/19/26	1700	Final Tsunami Threat Message #5	Email, Whatsapp, and telegram

Messages SRC

- The Seismic Research Center (SRC) is the corresponding volcano observatory responsible for monitoring this volcano and informing the TSP on any changes in activity for tsunami warning decision making.
- For the exercise, the SRC issues the **Volcano Observatory Notice for tsUnami Threat (VONUT)** text message which informs on any change in volcano alert levels or significant changes on volcanic eruptions and volcano flank destabilization.
- The simulated messages prepared by the SRC are provided **only for the PTWC**. Based on these products, the PTWC issues corresponding messages.

Message Chronology sent by SRC to PTWC

Kick 'em Jenny

Date	Time (UTC)	SRC	
		Type of Product	Transmission Method
3/19/26	1130	VONUT Message #1	Email
3/19/26	1430	VONUT Message #2	Email
3/19/26	1500	- - - - Eruption O c c u r s - - - -	
3/19/26	1500	VONUT Message #3	Email

ICG/CARIBE-EWS Database

- There is a list with the designation and contact information of each country's TNC, TWFP, and NTWC
- It is shared with the Tsunami Service Providers so that they know who to contact during an event or exercise.
- It is important to maintain this information up to date.
- To receive information on file for your country or to inform the UNESCO regarding any updates needed for the TNC/TWFP/NTWC contacts, please email B.Aliaga@unesco.org, keeping CTIC, ITIC-CAR and the representative of the TSP in cc.
 - **By March 6th***



ICG/CARIBE-EWS Database Example

NAME OF THE STATE					MEMBERSHIP STATUS
MEMBER OF		MESSAGE RECIPIENT OF			
ICG/PTWS	ICG/CARIBE EWS	CATAC	NWPTAC	PTWC	SCSTAC
MEMBER	NO	NO	NO	YES	NO

As of 17 DECEMBER 2024

VTOC (*): Validated through official channels. VDATE (**): Validation date.

TSP MESSAGE BY EMAIL		TSP MESSAGE BY FAX	
TSP MESSAGE BY TEL		TSP MESSAGE BY GTS	
TSP MESSAGE BY MOB		TSP MESSAGE BY OTHER	

TYPE	VTOC (*)	VDATE (**)	NAME	EMAIL-REGULAR
TNC			SURNAME	TEL-REGULAR
			SALUTATION	MOB-REGULAR
			OCEAN EXPERT PL	FAX-REGULAR
			POSITION	DEPARTMENT
INSTITUTE				ADDRESS

TYPE	VTOC (*)	VDATE (**)	NAME	EMAIL-REGULAR
TNC-AL			SURNAME	TEL-REGULAR
			SALUTATION	MOB-REGULAR
			OCEAN EXPERT PL	FAX-REGULAR
			POSITION	DEPARTMENT
INSTITUTE				ADDRESS

TYPE	VTOC (*)	VDATE (**)	NAME	EMAIL-REGULAR
TWFP			SURNAME	TEL-REGULAR
			SALUTATION	MOB-REGULAR
			OCEAN EXPERT PL	FAX-REGULAR
			POSITION	DEPARTMENT
INSTITUTE				ADDRESS

TYPE	VTOC (*)	VDATE (**)	NAME	EMAIL-REGULAR
TWFP-AL			SURNAME	TEL-REGULAR
			SALUTATION	MOB-REGULAR
			OCEAN EXPERT PL	FAX-REGULAR
			POSITION	DEPARTMENT
INSTITUTE				ADDRESS

TYPE	VTOC (*)	VDATE (**)	NAME	EMAIL-REGULAR
NTWC			SURNAME	TEL-REGULAR
			SALUTATION	MOB-REGULAR
			OCEAN EXPERT PL	FAX-REGULAR
			POSITION	DEPARTMENT
INSTITUTE				ADDRESS

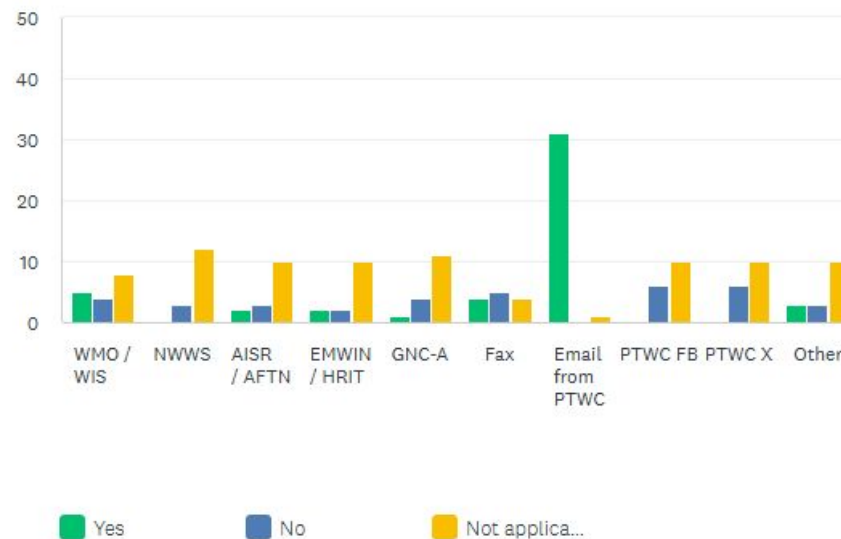
TYPE	VTOC (*)	VDATE (**)	NAME	EMAIL-REGULAR
NTWC-AL			SURNAME	TEL-REGULAR
			SALUTATION	MOB-REGULAR
			OCEAN EXPERT PL	FAX-REGULAR
			POSITION	DEPARTMENT
INSTITUTE				ADDRESS

TYPE	VTOC (*)	VDATE (**)	NAME	EMAIL-REGULAR
TS-AD			SURNAME	TEL-REGULAR
			SALUTATION	MOB-REGULAR
			OCEAN EXPERT PL	FAX-REGULAR
			POSITION	DEPARTMENT
INSTITUTE				ADDRESS

Results of Communication Portion of CARIBE WAVE 25

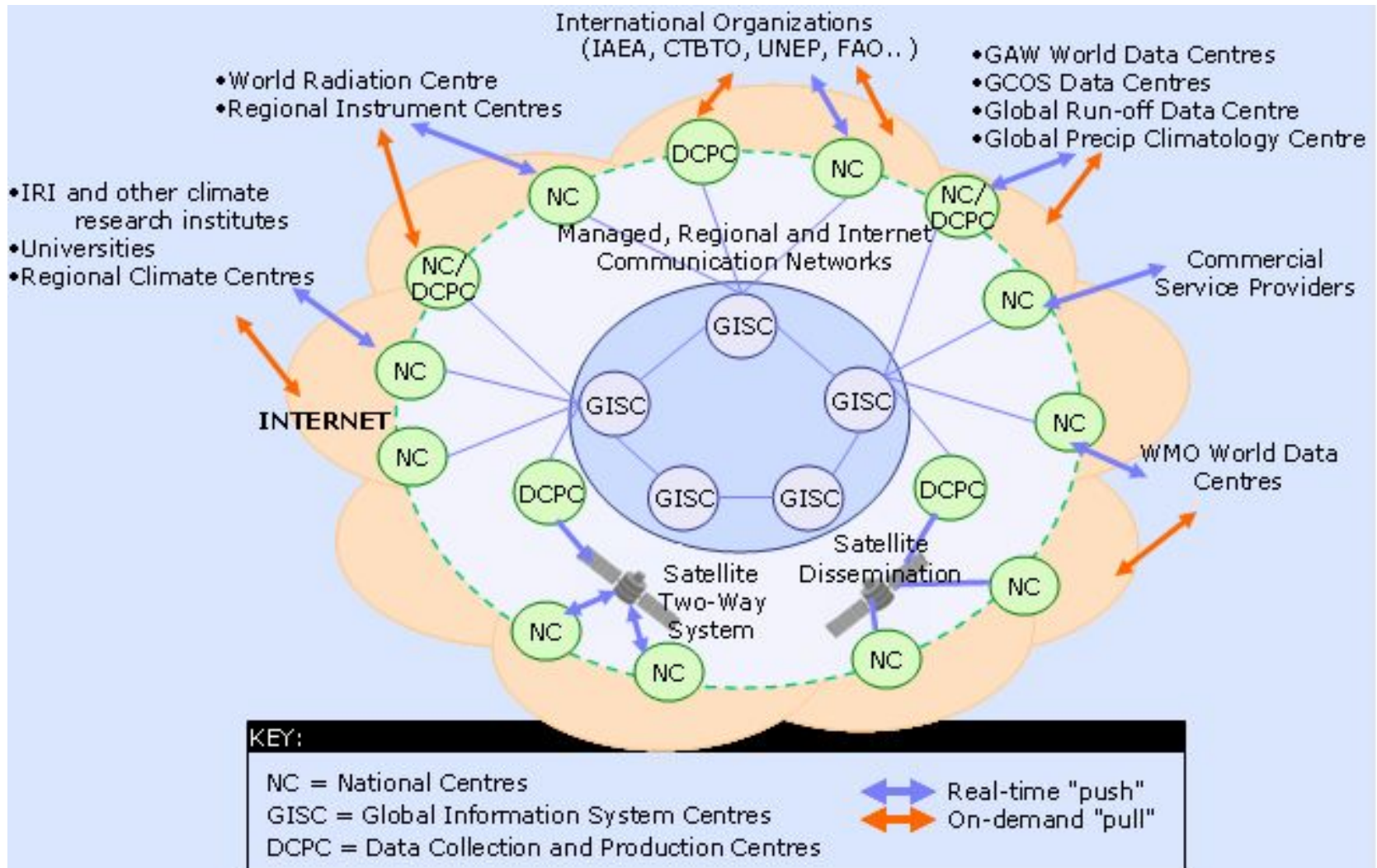
The PTWC issued the CARIBE WAVE 25 Dummy Message by several methods. Please check all methods through which the message was received by the TWFP/NTWC.

Answered: 32 Skipped: 0



***Note the high dependency on email**

WMO Information System (WIS)



WMO WIS / GTS reception

- If you have direct access to GTS
 - You will receive a message with GTS header WECA41 PHEB through your GTS link.
- If you **don't** have direct access to GTS
 - You can subscribe to the reception of Tsunami Warnings through a WMO Global Information System Center (GISC).
 - You will receive a message with GTS header WECA41 PHEB on your registered FTP, SFTP server or via email.

WMO WIS / GTS reception

- If you **don't** have direct access to GTS
 - Register on <https://gisc.dwd.de>
 - When registering pick your Organization or use Public
 - After Login go to Subscriptions -> Internet subscriptions
 - Click Edit Destinations and click +
 - Enter details for delivery (ftp or sftp server, or email)
 - Click Edit Subscriptions and click +
 - Choose Tsunami_warnings from the default product package drop down
 - **Do NOT tick Copy products**
 - Click Create subscription and Save

Now you are set to receive Tsunami Warnings from WIS

Having problems? Write to wis@wmo.int with subject: help Tsunami Warning

WMO Information System (WIS 2.0)

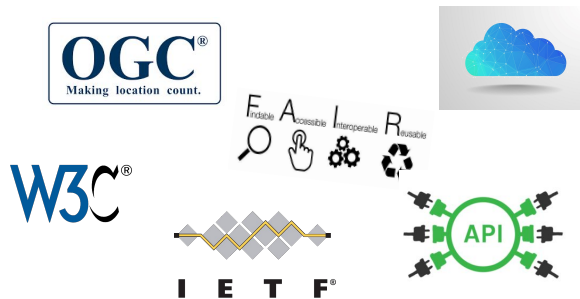
1963 World Weather Watch

1970s Global Telecommunication System

2007 WMO Information System (WIS)

2019 WMO Reform (Earth System Approach)

2021 WMO Unified Data Policy / GBON



WIS 2.0

... system of systems using Web-architecture and open standards to provide simple, timely and seamless sharing of trusted data and information ...

- **Open Standards (OGC, W3C, IETF, ...)**
- **Open Source (use off the shelf tools)**
- Data sharing through Web and publication/subscription (pub/sub) protocols
- Cloud ready (turn-key solutions)
- Web APIs (Application Programming Interface)

NOAA Satellite Broadcast Overview

GEONETCast Americas (GNC-A)

- GNC-A is a NOAA-funded commercial satellite broadcast to cover the Americas.
- We are part of a global network of satellite broadcasts to distribute data to remote communities
- Data is provided for transmission from multiple countries/organizations.
- GNC-A transmits satellite images and other weather products.
- Tsunami and other weather warning products take priority and are broadcast first.
- The system does not rely on the Internet or commercial power.

High Rate Information Transmission/Emergency Managers Weather Information Network (HRIT/EMWIN)

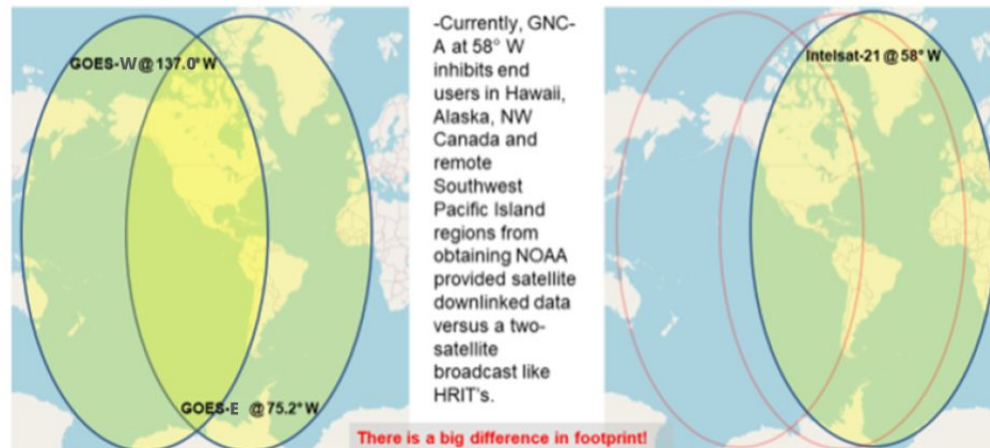
- HRIT/EMWIN is a NOAA-provided broadcast available from either GOES-R series East/West satellites. Both satellite broadcasts are limited in bandwidth, thus image products are lower cadence or in lower resolution compared to GNC-A.

High Rate Information
Transmission/Emergency Managers
Weather Information Network

GEONETCast Americas

Satellite	GOES @75.2° and 137.0° W	Intelsat 21 @ 58° W
Center Downlink Frequency	1694.1 MHz (L band)	4080.0 MHz (C band)
Data Rate	400 Kbps	20 Mbps
Modulation	BPSK	QPSK
Polarization	Vertical	Vertical
Data Format	CCSDS/CGMS LRIT	DVB-S2

HRIT East & West versus GNC-A Footprint



GNC-A Known Users Receivers

in red are CARIBE EWS NTWC/TWFP

Antigua and Barbuda

Barbados CIMH

Belize NMS-Belize

Costa Rica AEROPUERTO-JSM

Costa Rica IMN Costa Rica

Costa Rica AEROPUERTO-LIBERIA

Cuba INSMET

Dominica

El Salvador MARN-Aeropuerto Llopango

El Salvador MARN-Puerto Acajutla

El Salvador MARN-Puert Corsain

El Salvador MARN-Universidad de El Salvador

El Salvador MARN-Las Mercedes

Grenada

USA - GNC-A Broadcast Manager

Guatemala INSIVUMEH

Honduras COPECO

Haiti UHM/CNIGS

Panama SERVIR-CATHALAC

Dominican Republic ONAMET

Mexico CONAGUA-SMN

Mexico CONAGUA-Ciudad de

Mexico CONAGUA-Chiapas

Mexico CONAGUA-Yucatán

Mexico CONAGUA-Veracruz

Mexico UNAM-ICML

Mexico CENAPRED

Mexico UABC

Mexico INEGI

Mexico AEM-CICESE

Mexico UNAM

Puerto Rico PRSN

Saint Kitts and Nevis

Saint Vincent and the Grenadines

Where to Find Tsunami Warning on GNC-A

- In addition to the RF antenna equipment, GNC-A users must have FAZZT Kencast client software in order ingest the broadcast
 - Requires a one-time licensing fee
- Within the GNC-A broadcast, there are twelve International Services Communication Systems (ISCS) folders/channels for various product transmissions.
- Users will find all tsunami warnings, watches and advisories (WWA) within the folder labeled: “**ISCS-WARN**”
- ISCS-WARN has the highest broadcast priority
 - All Tsunami WWA’s will arrive as text (TXT) files
- GNC-A users must activate this channel to receive warnings within FAZZT configuration settings.

Name	File Name
EUMETSAT	T_WUGL31BGSF091718_C_KWBC_20210209172112_24248564-4908
GOES-R-RGB-Composites	T_SECA42TJSJ091716RRA_C_KWBC_20210209171711_24248564-4907-TMASJU
ISCS-GRIB2	T_WEXX20PAAQ091714_C_KWBC_20210209171518_15991038-5544
ISCS-SURFACE	T_WEXX20PAAQ091714_C_KWBC_20210209171518_15991038-5545-TSUAT1
ISCS-UA	T_WEXX30PAAQ091714_C_KWBC_20210209171518_15991038-5546-TSUATE
ISCS-FCAST	T_WEXX20PAAQ091714_C_KWBC_20210209171511_24248564-4905-TSUAT1
INPE	T_WSMC31GMMC091713_C_KWBC_20210209171511_24248564-4906
ISCS-WARN	T_WWFJ40NFFN091700_C_KWBC_20210209171218_15991038-5543
ISCS-BUFR	T_WWFJ40NFFN091700_C_KWBC_20210209171211_24248564-4904
ISCS-RADAR	
GOES-R-GLM-Products	
USEPA	
ISCS-PIC	
ISCS-ADMIN	
RANET	
NOAA-NESDIS	
ISCS-SAT	
ISCS-ANLZ-CLIMATE	
IMN-CostaRica	
CONAE	
ISCS-GRIB1	
MARN-EI Salvador	
NADM	
CIMSS	

U.S. Atlantic, Gulf of Mexico, Canada	Example: WEXX20 PAAQ Example: WEXX20 PAAQ Example: WEXX20 PAAQ	TSUAT1	NTWC	Segmented Tsunami Warnings, Watches, and Advisories
	Example: WEXX30 PAAQ Example: WEXX30 PAAQ Example: WEXX30 PAAQ	TSUATE	NTWC	Tsunami Warnings, Watches, and Advisories
	Example: WEXX40 PAAQ Example: WEXX40 PAAQ Example: WEXX40 PAAQ	TSUSPA	NTWC	Spanish Tsunami Warnings, Watches, and Advisories
	Example: WEXX32 PAAQ	TIBATE	NTWC	Tsunami Information Statements
	Example: WEXX42 PAAQ	TIBSPA	NTWC	Spanish Tsunami Information Statements

Example from NTWC Tsunami Routine Communications Test US East & Gulf Coast received via GNC-A on February 9th, 2021 at 17:15 UTC

Where to Find Tsunami Warning on HRIT/EMWIN

- In addition to the RF antenna equipment, users must have software available to ingest/visualize the data
- Within the HRIT/EMWIN broadcast, there are a total of three National Weather Service provided EMWIN channels (VCID 20 -22)
- Users will find all tsunami warnings, watches and advisories (WWA) within VCID 20, as a priority 1 message
- VCID 20 priority 1 and 2 data have the highest broadcast priority
 - All Tsunami WWA's will arrive as text (TXT) files wrapped within a .Irit file extension
 - Will need to be unwrapped to visualize

VCID #	Product Name
0	Admin Text
1	Mesoscale Imagery
2	CMI Band 2
7	CMI Band 7
8	CMI Band 8
9	CMI Band 9
13	CMI Band 13
14	CMI Band 14
15	CMI Band 15
17	G18 CMI Band 13
20	EMWIN – High Priority
21	EMWIN - Graphics
22	EMWIN – Low Priority
24	NHC Maritime Graphics Products
25	GOES-16 Level II Products
30	DCS Admin
32	DCS Data New Format

A_SNAU01AMMC091700_C_KWIN_20210209171517_738012-2-OBSU01AU.Irit
 A_FTPA32KWBC091715_C_KWIN_20210209171504_737995-2-TAFWBCFJ.Irit
 A_UBCA90KWBC091715_C_KWIN_20210209171503_737990-2-UABA90CA.Irit
 A_FTUS80KWBC091715_C_KWIN_20210209171506_737999-2-TAFALLUS.Irit
 A_NWUS51KALY091714_C_KWIN_20210209171501_737988-2-LSRALYNY.Irit
 A_NWUS55KBYZ091714_C_KWIN_20210209171455_737979-2-LSRBYZMT.Irit
 A_FNUS76KHNX091714_C_KWIN_20210209171441_737970-2-FWSHNXCA.Irit
 A_SXMS50KWAL091714_C_KWIN_20210209171446_737972-2-MISDCPSV.Irit
 A_WEXX30PAAQ091714_C_KWIN_20210209171454_737978-1-TSUATEUS.Irit
 A_WEXX20PAAQ091714_C_KWIN_20210209171454_737977-1-TSUAT1US.Irit
 A_WEXX20PAAQ091714_C_KWIN_20210209171449_737974-1-TSUAT1US.Irit
 A_SXMS50KWAL091714_C_KWIN_20210209171436_737964-2-MISDCPSV.Irit
 A_FTFJ31NFFN091700_C_KWIN_20210209171433_737957-2-TAFJ31FJ.Irit
 A_SXMS50KWAL091713_C_KWIN_20210209171432_737954-2-MISDCPSV.Irit
 A_NWUS51KALY091714_C_KWIN_20210209171429_737949-2-LSRALYNY.Irit
 A_SXMS50KWAL091714_C_KWIN_20210209171432_737955-2-MISDCPSV.Irit
 A_SAU580KWBC091714_C_KWIN_20210209171428_737945-2-SAHOURLY.Irit
 A_SAU570KWBC091700_C_KWIN_20210209171427_737943-2-SAHOURLY.Irit
 A_SPU580KWBC091714_C_KWIN_20210209171428_737946-2-MISS80US.Irit
 A_SAU570KWBC091714_C_KWIN_20210209171427_737942-2-SAHOURLY.Irit
 A_SPU570KWBC091714_C_KWIN_20210209171427_737944-2-MISS70US.Irit
 A_SXPA50KWAL091713_C_KWIN_20210209171425_737937-2-MISA50US.Irit
 A_SXMS50KWAL091713_C_KWIN_20210209171425_737936-2-MISDCPSV.Irit

Example from a NTCW Tsunami Routine Communications Test US East & Gulf Coast received via HRIT/EMWIN on February 9th, 2021 at 17:15 UTC

Helpful Web Links and Contact Information

More GEONETCast America Broadcast Information

– <https://geonetcast.wordpress.com/>

More HRIT/EMWIN Broadcast Information

– <https://www.noaasis.noaa.gov/>

– <https://www.weather.gov/emwin/>

More information about GNC-A and EMWIN NWS product baseline

– <https://www.weather.gov/iscs/baseline>

More about Tsunami WMO Headers, AWIPS ID's and Origin

– https://ntwc.ncep.noaa.gov/?page=product_list

– <https://www.tsunami.gov>

GNC-A and HRIT/EMWIN Broadcast POC

HRIT/EMWIN Program Manager

Primary Email PoC: hrit.manager@noaa.gov

or

Ian Avruch: ian.avruch@noaa.gov

GEONETCast Americas Program Manager

Primary Email PoC: gnc.americas@noaa.gov

or

Dave Donahue: david.r.donahue@noaa.gov

EMWIN and ISCS

Primary Email: nws.emwin.support@noaa.gov

DVB-S2 Receivers for GNC-A System

- The Caribbean Institute for Meteorology and Hydrology in partnership with NOAA are distributing DVB-S2 receivers to be used in GNC-A stations. (You can learn about the basic components for a GNC-A station [here](#).)
- **Eligibility**
 - National/international agencies or organizations, educational/research organizations, and non-profit organizations are eligible to apply.
 - Receivers can not be provided to commercial entities.
- **Application**
 - Application form [can be found here](#).
 - Supplies are limited. Applications will be accepted until there are not more receivers.

GNC-A System Webinar

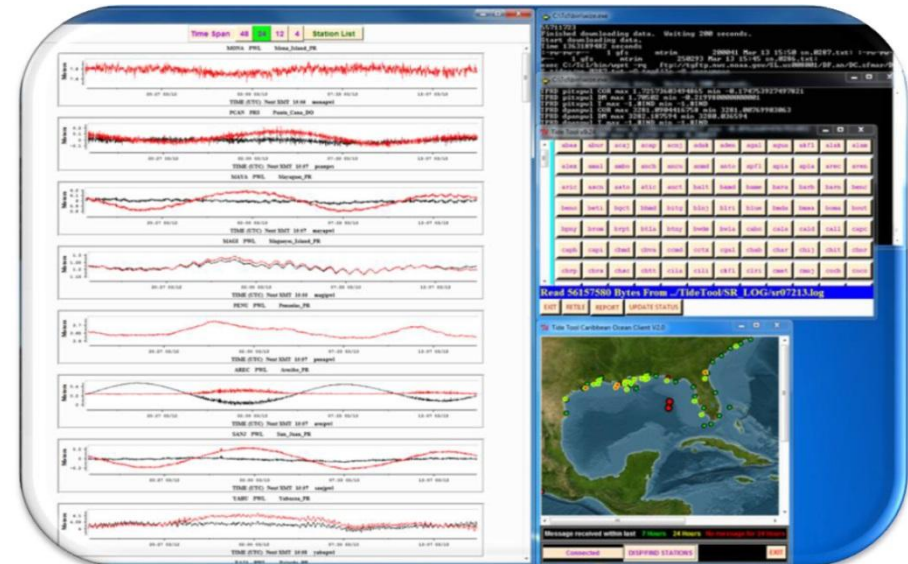
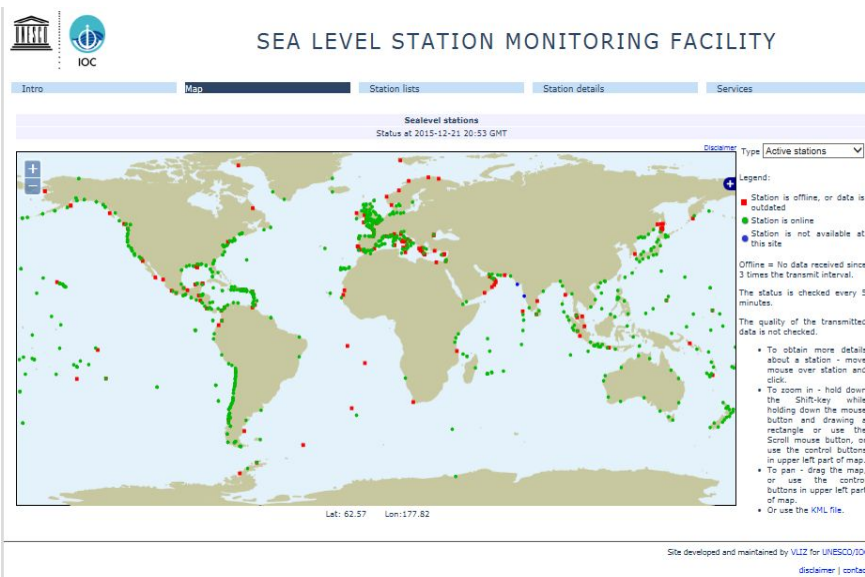
Thursday, March 12

Sea Level Monitoring

As good practice for the exercise, corresponding authorities are encouraged to check out sea level readings in real time on the IOC Sea Level Monitoring Facility and Tide Tool which can also be run with the earthquake parameters.

IOC Sea Level Monitoring Facility
<http://www.ioc-sealevelmonitoring.org/>

Tide Tool
stuart.weinstein@noaa.gov



Member State Participation The *TsunamiZone* Registration

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

REGISTER YOUR 2026 TSUNAMI PREPAREDNESS ACTIVITIES

[ESPAÑOL](#) | [FRANÇAIS](#)

Register for the First Time

Renew or Update Registration

Other Situations
(Change contact, multiple locations, etc.)

Issues with registration? Please e-mail info@tsunamizone.org.

Benefits of Registration:

- Be **counted** as a participant on the TsunamiZone website!
- Be **listed** with other participants in your area (Optional)
- Be an **example** that motivates others to participate & prepare
- Be **updated** with TsunamiZone news and preparedness tips
- Have **peace of mind** that you, your family, your co-workers and millions of others will be **better prepared to survive and recover quickly** when a tsunami occurs.

Event Organizers: [Submit your event details](#) to the [TsunamiZone calendar](#).

Home | Register | Login | Know | Who? | How? | Resources | News & Events | Share Your Activities | Partners & Sponsors | Contact Us | Privacy | Plugins |

*** Note: This is to register your participation. It is different from the scenario selection ***

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 and CATAC.

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

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

2026 CARIBBEAN PARTICIPATION TOTALS

136,657 participants are registered in the 2026 TsunamiZone (as of 02/25/2026 3:25 AM PST).

Category	Participants	Participation totals and lists for each area	Total
Individuals/Families	731		
Childcare and Pre-Schools	1,714		
K-12 Schools and Districts	70,945	Antigua and Barbuda	35
Colleges and Universities	6,343	Aruba	1,553
Local Government	7,720	Bahamas	0
State Government	2,453	Barbados	1,501
Federal/National Government (Including Military)	13,467	Belize	0
Tribes/Indigenous Peoples	0	Brazil	1
Businesses	2,081	Colombia	300
Hotels and Other Lodgings	2,227	Costa Rica	6
Healthcare	5,866	Cuba	0
Senior Facilities/Communities	223	Curacao	0
Disability/AFN Organizations	0	Dominica	0
Non-Profit Organizations	1,210	Dominican Republic	387
Neighborhood Groups	545	France	2,478
Preparedness Organizations	11,902	Guadeloupe	193
Faith-based Organizations	784	Guyane	0
Museums, Libraries, Parks, etc.	34	Martinique	2,059
Volunteer/Service Clubs	30	Saint Barthelemy	226
Youth Organizations	61	Saint Martin	0
Animal Shelter/Service Providers	0		
Agriculture/Livestock Sector	0		
Volunteer Radio Groups	1,142		
Science/Engineering Organizations	191		
Media Organizations	2,681		
Other	4,307		

*** Please note that the official numbers of participation come from the evaluation surveys submitted by member states, and if not provided by the country, the numbers from TsunamiZone are used.***

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

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

Make sure you set your location in the Caribbean and choose the exercise
CARIBE WAVE option

Please check the box for any exercise or campaign in 2026 with which your tsunami activity is affiliated.

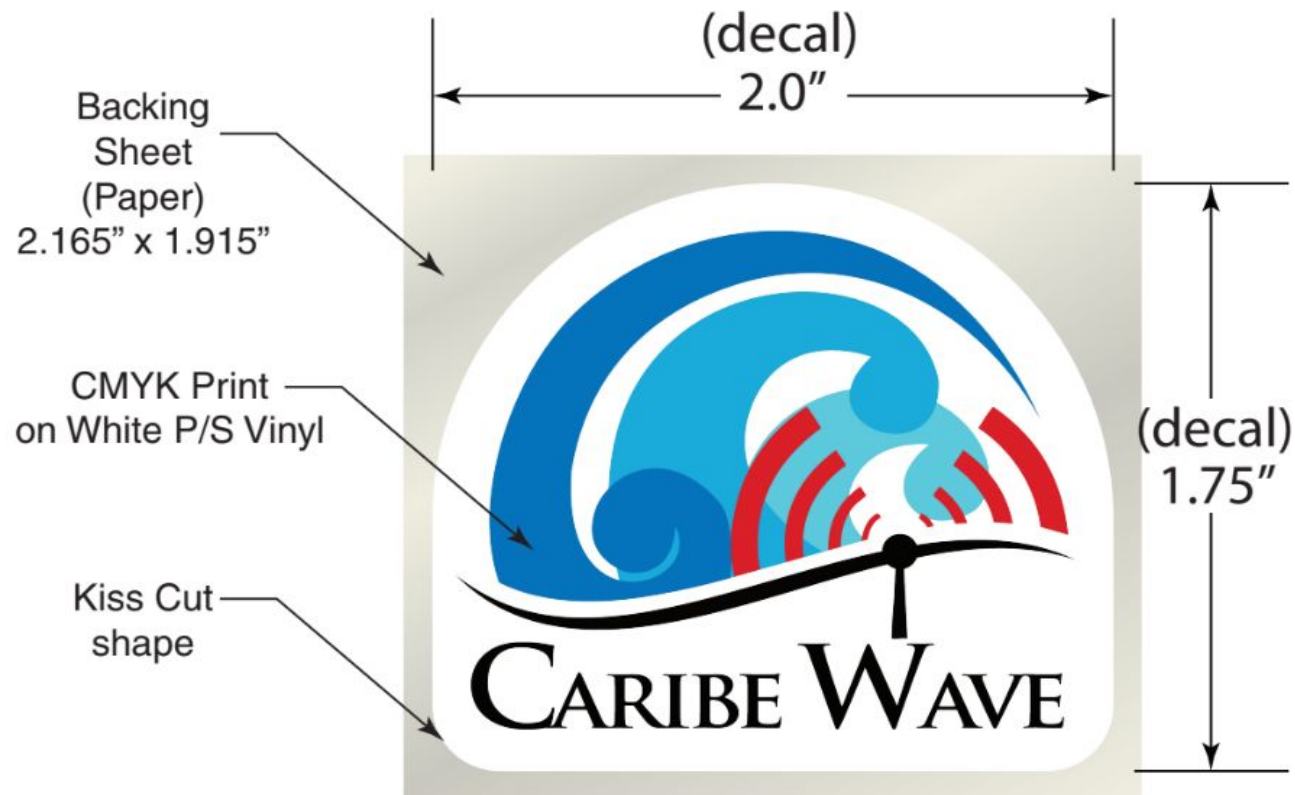
- CARIBE WAVE (March 19)
- California Tsunami Preparedness Week (March 21-29)
- Alaska Tsunami Preparedness Week (March 22-28)
- Hawaii Tsunami Awareness Month (April)
- PACIFEX (May 5)
- World Tsunami Awareness Day (November 5)
- LANTEX
- Other
- My activity is not part of any exercise or campaign

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

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

CARIBE WAVE Stickers

- CARIBE WAVE stickers for free-distribution to the TNCs, TWFPs, and NTWCs are also available upon requests to ITIC-CAR.
- Please contact kimberly.maisonet-gonzalez@noaa.gov and christa.vonh@noaa.gov to arrange for no-cost supply and delivery.



Actions in Case of a Real Event

- In the case of a significant event occurring during the exercise, PTWC and CATAC will issue the corresponding messages for that event. Such messages will be given full priority and a decision will be made by PTWC and CATAC whether to issue the CARIBE WAVE 26 dummy messages and to send email messages to corresponding recipients.
- In the case of smaller earthquakes, PTWC and CATAC will issue the corresponding Tsunami Information Statement and the exercise will not be disrupted.
- All documentation and correspondence relating to this exercise is to be clearly identified as “**CARIBE WAVE 26**” and “**Exercise.**”

Procedures for False Alarm

- Any time disaster response exercises are conducted; the potential exists for the public or media to interpret the event as real.
- Procedures should be set up by all participating entities to address public or media concerns involving this exercise in case of misinterpretation by media or the public.
- Recommended text in case of false alarm:

“There is NO TSUNAMI threat for [location]. We are aware of an erroneous tsunami [alert level] for our area. Please disregard; we have not issued a tsunami [alert level]. The annual CARIBE WAVE tsunami exercise is underway and communication systems are being tested. [Name of agency] is reviewing this incident.”

Post-Exercise Evaluation Form

- Each CARIBE-EWS member state and territory is requested to provide feedback on the exercise.
 - This feedback will assist the ICG/CARIBE-EWS in the evaluation of CARIBE WAVE 26, the development of subsequent exercises, and help response agencies document lessons learned.
 - To facilitate feedback, the online evaluation survey can be accessed at the following link: https://www.surveymonkey.com/r/CW26_Evaluation
 - The deadline for completing the evaluation is 3 April 2026.
 - This questionnaire includes feedback on PTWC, CATAC, Risk Knowledge and SOPs, Tsunami Ready.

Post-Exercise Evaluation Form

Questionnaire

5. The PTWC issued the CARIBE WAVE 26 **Dummy Message** by several methods. Please check all methods through which the message was received by the TWFP/NTWC.

	Yes	No	Not applicable
WMO Information System (WIS) - GTS/GISC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
US NOAA Weather Wire Service (NWWS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AISR/AFTN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EMWIN/HRIT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GEONETCast Americas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Email from PTWC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other means (specify in comment)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments:

Post-Exercise Evaluation Form

Questionnaire

31. Is your country implementing the UNESCO/IOC Tsunami Ready Recognition Programme (or TsunamiReady®)?

- Yes, one or more applications are underway, communities have been recognized or are renewing
- Yes, some communities have started to take steps to obtain recognition
- Yes, some communities want to get involved in the Programme
- Yes, the national level is organizing itself
- Yes, national institutions are discussing the programme implementation
- No

Comments:

32. Would your country be interested in implementing the UNESCO/IOC Tsunami Ready Recognition Programme?

- Yes - Please provide further information on the timeline, needs and/or support.
- No - Why are you not interested?

Comments:

Post-Exercise Evaluation Form

Questionnaire

33. Do you know the target number of the communities in your country/territory for UNESCO/IOC Tsunami Ready or TsunamiReady® recognition?

Yes - Indicate the number and the administrative level of implementation (country/territory-wide, parish, district, municipality, etc.)

No

Number and name of communities:

34. Was the CARIBE WAVE exercise useful for implementing or sustaining the Tsunami Ready program?

Yes - How so?

No - Why?

Comments:

CW Videos/Photos Sharing

Ways to share your exercise pictures/videos:

1. Tsunami Zone Website

(<https://www.tsunamizone.org/share/>)

- Only accepts website or/and social media links

2. Post-Exercise Questionnaire (available after the exercise).

- Accepts website or/and social media links

3. Email

- To christa.vonh@noaa.gov

- kimberly.maisonet-gonzalez@noaa.gov



Pictures from left to right, top to bottom, are from: Honduras, Venezuela, Mexico, Puerto Rico, British Virgin Islands, Dominican Republic, Costa Rica, and Colombia.

**Share and possibly be part of the
2026 collage!**

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.
- Revised User's Guide for PTWC Procedures and Products for the CARIBE-EWS
- IOC Manuals “How to plan, conduct and evaluate tsunami exercises” and “Module on Tsunami Exercise” are useful resources.
- CARIBE WAVE 2011 - 2026 Handbook
- CARIBE WAVE 2011 - 2025 Final Reports
-

Questions on the exercise can be addressed to the members of the CARIBE WAVE 26 Task Team.

Participation of people with disabilities in CARIBE WAVE 26

- According to the Development Dialogue (2021), persons with disabilities make up 15 percent of the world's population.
- This group of people are disproportionately affected by disaster impacts and are often not included in prevention, response, and recovery.
- It is important to engage persons with disabilities and their representative organizations in annual exercises such as CARIBE WAVE.
- Be sure that the participation of people with disabilities is reflected in TsunamiZone registration.
- Cutting-edge technology aimed at co-creating early warning and preparedness solutions that are inclusive and accessible to people with disabilities are suggested to be tested during the tsunami exercise to address this barrier.

Media

- Puerto Rico Seismic Network Tsunami Media Kit (English and Spanish) and Tsunami Program Portal:
 - <http://www.prsn.uprm.edu/mediakit/>
- Seismic and Other Coastal Hazards Research Unit. Information:
 - <https://uwiseismic.com/>
- Sample press release from the manual that can be adapted as needed.
- Use of the hashtags #CARIBEWAVE and #TSUNAMIREADY is recommended before and during the exercise.

Additional Info

- Additional materials will be added to CW website (www.caribewave.org).
- This presentation is available on caribewave.org.
- CARIBE WAVE video in EN, SP and FR is available at caribewave.org website and can also be viewed from YouTube channel of ITIC

CARIBE WAVE 26 Task Team

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Timeline

ACTION	DATE
Handbook Draft Circulated among ICG CARIBE-EWS CARIBE WAVE 26 Task Team	✓ October 2025
Deadline for Comments	✓ November 2025
Circular Letter Issued by IOC to MS	✓ January 2026
Exercise Handbook Available Online	✓ January 2026
First Webinar CW	✓ 20 January 2026 – English ✓ 21 January 2026 – Spanish ✓ 22 January 2026 – French
Second Webinar CW	✓ 24 February 2026 – English 25 February 2026 – Spanish 26 February 2026 – French
Countries Indicate Selected Scenario	6 March 2026
Exercise	19 March 2026
Hot-Wash	31 March 2026
Exercise Evaluation Due	3 April 2026
Draft CARIBE WAVE 26 Report	17 April 2026

Questions, Comments

Thank you for participating

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