



# Primer seminario en línea

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#CARIBEWAVE  
#TSUNAMIREADY

19 de enero de 2022

# CARIBE WAVE 2021

CARIBE WAVE 21 se realizó bajo las circunstancias de una pandemia el 11 de marzo de 2021. Se dejó a los Estados miembros y territorios determinar el nivel de participación.

En el Caribe y Regiones Adyacentes, **47 Estados Miembros y Territorios** participaron en este ejercicio con un total de **335,000** personas involucradas.

- La participación de los países miembros representa una tasa de **98% miembros** (frente al 92% del 2020).



CARIBE WAVE 21: British Virgin Islands (a) , Trinidad and Tobago (b) , and Mexico (c), France (d), Venezuela (e) Hot-wash (f), Colombia (g).

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# Objetivos para CARIBE WAVE 22

## 1. Evaluar y ejercitar las comunicaciones entre el Proveedor Regional de Servicios de Tsunami y los Estados/Territorios Miembros.

- A. Validar la **emisión** de productos de tsunami del PTWC.
- B. Validar la **recepción** de los productos de tsunami en los puntos focales de alerta del CARIBE-EWS (TWFP) y/o el Centro Nacional de Alerta de Tsunami (NTWC).

## 2. Evaluar los procedimientos y programas de tsunami dentro de los Estados/Territorios Miembros.

- A. Validar la **preparación** para responder a un tsunami.
- B. Validar la **preparación operacional** de los TWFPs/NTWCs (o como función) y/o la Oficina Nacional de Manejo de Desastres (NDMO).
- C. Mejorar la **preparación operacional**. Antes del ejercicio, asegurar que se hayan desarrollado las herramientas y los planes de respuesta adecuados, incluidos los materiales de educación pública.
- D. Validar que la difusión de advertencias e información/asesoramiento por parte de los TWFPs y NTWCs a las agencias pertinentes del país y al público, sea precisa y oportuna.
- E. Evaluar el estado de la implementación del programa de reconocimiento CARIBE-EWS TsunamiReady.

# Metas

Meta	2016 Resultado	2017 Resultado	2018 Resultado	2019 Resultado	2020 Resultado	2021 Resultado	2022 Métrica
Recibo de los mensajes “dummy” al TWFP	84%	95%	100%	89%	97%	97%	100%
Participación de los países miembros del ICG CARIBE EWS - con Punto Focal de Alerto de Tsunami designado	100%	100%	97%	100%	92%	98%	100%
Participación de la comunidad (más allá del TWFP)	73%	82%	77%	66%	38%	56%	95%
Número de personas registradas	332,812	679,985	643,403	793,353	4,622	333,518	+10%
Países que enviaron el cuestionario del ejercicio	100%	100%	91%	82%	92%	95%	100%
Satisfacción de los Miembros de Estado y territorios con el ejercicio				82%	76%	96%	100%



# Manual del Ejercicio

- El manual del ejercicio CARIBE WAVE 22 esta disponible (en inglés) en el siguiente enlace, [www.caribewave.org](http://www.caribewave.org)
- El mismo incluye:
  - Descripción de los escenarios de tsunami y terremoto
  - Cronograma
  - El mensaje inicial “dummy” y los mensajes simulados de amenaza
  - Tiempos de viaje y la amplitud esperada de las olas
  - El enlace al cuestionario de evaluación

#CARIBEWAVE  
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**CARIBE WAVE 22**  
Weather.gov > Caribbean Tsunami Warning Program > CARIBE WAVE 22

Caribbean Tsunami Warning Program  
National Program

Sea Level Stations Seismic Stations CARIBE EWS Preparedness/Education CARIBE WAVE About ITIC-CAR

The Tsunami Exercise CARIBE WAVE 22 will be on **March 10, 2022**

**Supporting Documents**

- Western Muertos Trough scenario - [KMZ](#)
- Northern Panama scenario - [KMZ](#)
- PTWC Enhanced Products User's Guide - [PDF](#)

**Webinars**

- Webinar 1
  - English (January 18, 2022) - [registration](#)
  - Español (19 de enero de 2022) - [registration](#)
  - Français (20 janvier 2022) - [registration](#)
- Webinar 2
  - English (February 15, 2022) - [registration](#)
  - Español (16 de febrero de 2022) - [registration](#)
  - Français (17 février 2022) - [registration](#)

**Additional Resources**

- [US Tsunami Warning System](#)
- [UNESCO IOC](#)
- [Puerto Rico Seismic Network](#)
- [NOAA Tsunami Program](#)
- [TsunamiZone](#)

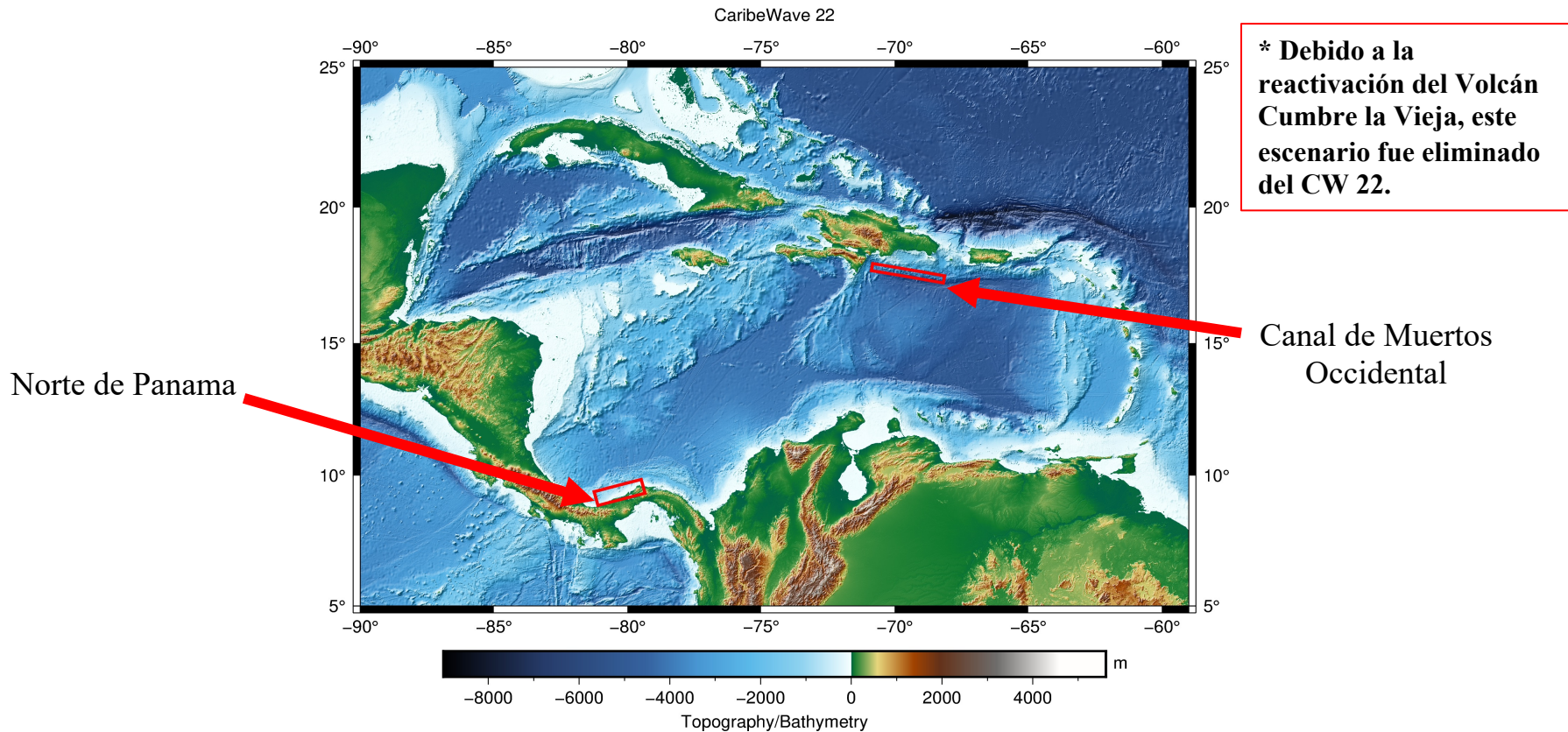
CARIBE WAVE 22 Scenarios by Member State/Territory	
*scenarios decided by Caribe Wave organizers per Exercise Handbook	
Western Muertos Trough	Northern Panama

↑

**\*Los estados miembros y territorios que han seleccionado el escenario, se reflejará en esta tabla.**

# CARIBE WAVE 22

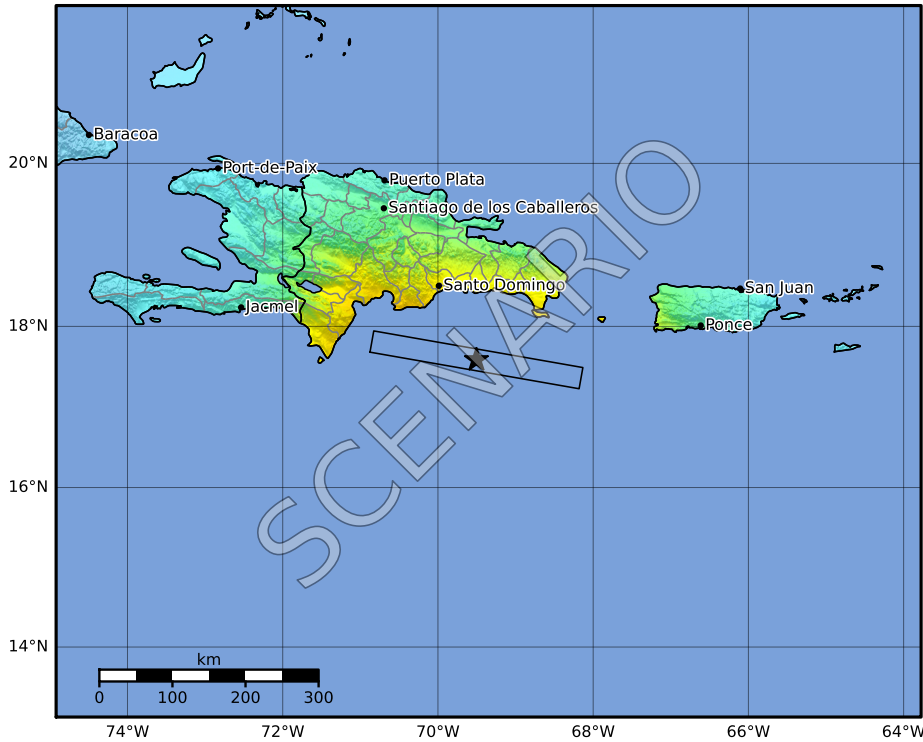
## Mapa de los Escenarios



Escenario	Tiempo de Origen	Mw	Epicentro
Canal de Muertos Occidental	14:00:00 UTC	8.0	17.5°N, 69.5°W
Norte de Panama	10 de marzo de 2022	8.3	9.3°N, 80.3°W

# Escenario del Impacto del Terremoto Canal de Muertos Occidental

Macroseismic Intensity Map USGS  
ShakeMap: Muertos Trough  
Mar 22, 2022 14:00:00 UTC M8.0 N17.59 W69.50 Depth: 3.5km  
ID:Muertos\_CaribeWave2022\_se



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)	<0.0464	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) Version 1: Processed 2021-11-18T17:54:50Z  
 Δ Seismic Instrument ○ Reported Intensity ★ Epicenter □ Rupture



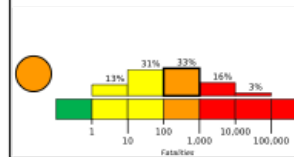
Earthquake Shaking **Orange Alert**



## M 8.0, Scenarío Muertos Trough

Origin Time: 2022-03-22 14:00:00 UTC (Tue 09:00:00 local)  
Location: 17.5864° N 69.5040° W Depth: 3.5 km  
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

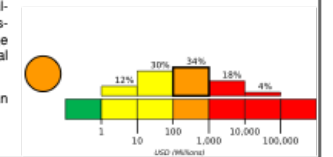
### Estimated Fatalities



Orange alert for shaking-related fatalities and economic losses. Significant casualties and damage are likely and the disaster is potentially widespread. Past orange alerts have required a regional or national level response.

Estimated economic losses are less than 1% of GDP of Dominican Republic.

### Estimated Economic Losses

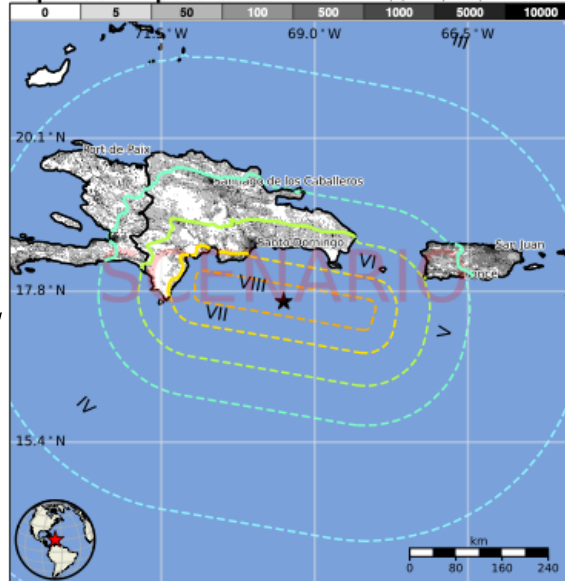


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	-*	333k*	10,485k	8,086k	6,375k	554k	0	0	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	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
Vulnerable Structures	None	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 a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1979-03-23	61	6.6	VI(605k)	0
2003-09-22	272	6.4	IX(132k)	1
1984-06-24	45	6.7	VII(326k)	5

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

### Selected City Exposure

MMI	City	Population
VII	Matanzas	4k
VII	Palmar de Ocoa	2k
VII	La Cienega	3k
VII	Paya	7k
VII	Sabana Buey	2k
VII	Nizao	7k
VI	Santo Domingo	2,202k
VI	Santo Domingo Este	700k
V	Santiago de los Caballeros	1,200k
V	Port-au-Prince	1,235k
IV	San Juan	418k

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: usMuertos\_CaribeWave2022\_se

# Escenario del Impacto del Terremoto Norte de Panama

Macroseismic Intensity Map USGS  
 ShakeMap: Panama  
 Mar 22, 2022 14:00:00 UTC M8.3 N9.35 W80.30 Depth: 25.0km  
 ID:Panama\_CaribeWave2022\_se



Earthquake Shaking **Red Alert**

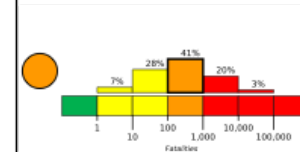


PAGER Version 1

## M 8.3, Scenario Panama

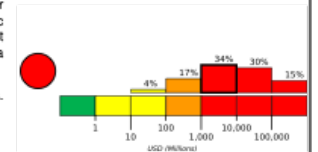
Origin Time: 2022-03-22 14:00:00 UTC (Tue 09:00:00 local)  
 Location: 9.3500° N 80.3000° W Depth: 25.0 km  
 FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)

### Estimated Fatalities



Red alert for economic losses. Extensive damage is probable and the disaster is likely widespread. Estimated economic losses are 4-50% GDP of Panama. Past events with this alert level have required a national or international level response.  
 Orange alert for shaking-related fatalities. Significant casualties are likely.

### Estimated Economic Losses

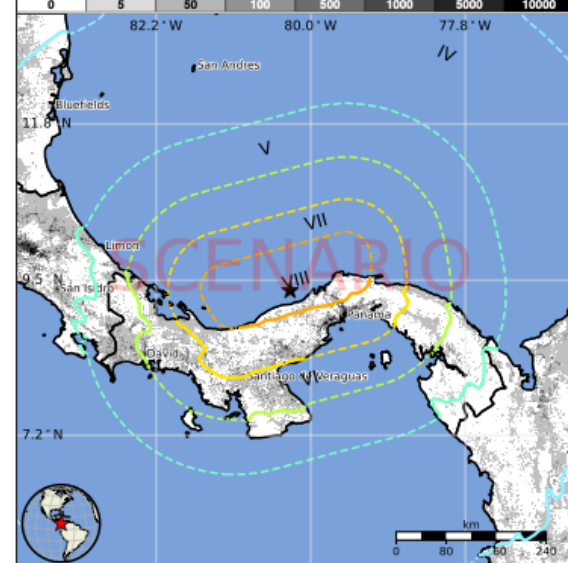


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (kx1000)	-*	835k*	6,565k	692k	935k	2,536k	279k	0	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	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Resistant Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	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 a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block construction.

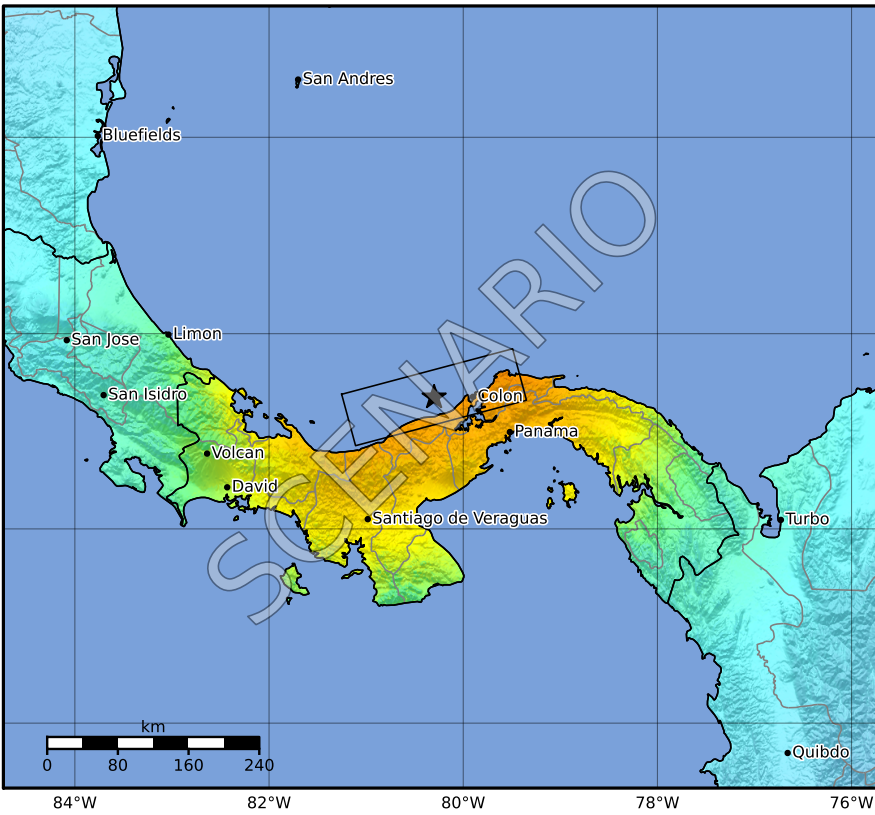
### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1982-08-19	394	6.8	V(1k)	0
1974-07-13	344	7.3	IX(2k)	11
1991-04-22	306	7.6	VII(213k)	75

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

### Selected City Exposure

MMI City	Population
VIII Caciique	<1k
VIII Portobelo	1k
VIII Palenque	<1k
VIII Viento Frio	<1k
VIII Miramar	<1k
VIII Nombre de Dios	<1k
VIII Colon	77k
VII Panama	408k
VI David	83k
IV San Jose	335k
IV Monteria	272k



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)	<0.0464	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)  
 Version 1: Processed 2021-11-18T17:50:40Z  
 Δ Seismic Instrument ○ Reported Intensity ★ Epicenter □ Rupture



# PRODUCTOS PTWC

#CARIBEWAVE  
#TSUNAMIREADY

# Para el CARIBE WAVE 22, PTWC emitirá los siguientes productos:

- El **10 de marzo de 2022** a las **1400 UTC**, el mensaje inicial “dummy” se emitirá y difundirá a través de todos sus canales de transmisión estándar para los dos escenarios.
- El PTWC también emitirá un mensaje de inicio de ejercicio a través de su cuenta de Twitter a las **1400 UTC**.
- A partir de las **1407 UTC**, se enviarán correos electrónicos de PTWC con todos los productos simulados (texto y gráficos) a CARIBE-EWS, TWFP y NTWC para uno de los escenarios.
  - Para el **25 de febrero de 2022**, cada Estado Miembro debe completar el siguiente formulario ([https://www.surveymonkey.com/r/CW22\\_ScenarioSelection](https://www.surveymonkey.com/r/CW22_ScenarioSelection)) para seleccionar el escenario que su país utilizará para el ejercicio.
  - Cada país y territorio escogerá un escenario y decidirá cómo difundir los mensajes dentro de su área de responsabilidad.
  - Si el Estado miembro no informa al PTWC y al ITIC-CAR, los organizadores decidirán para qué escenario el PTWC enviará los productos.
  - Para verificar la lista actual de UNESCO IOC CARIBE-EWS TWFP y NTWC accesar: [http://www.ioc-tsunami.org/index.php?option=com\\_content&view=article&id=6&Itemid=22&lang=en](http://www.ioc-tsunami.org/index.php?option=com_content&view=article&id=6&Itemid=22&lang=en)

**Usuario: tsunami Contraseña: bigwave**

## Appendix E. TWC Dummy (Start of Exercise) Messages

PTWC

Centro

WECA41 PHEB 191400

WMO ID

TSUCAX

AWIPS ID

TEST...INITIAL DUMMY START OF EXERCISE MESSAGE...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS  
ISSUED AT 1400Z 10 MAR 2022

...TEST...CARIBE WAVE 22 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 22 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.INFO. THE EXERCISE PURPOSE IS TO EXERCISE AND EVALUATE THE CARIBE EWS TSUNAMI WARNING SYSTEM.

THIS IS ONLY AN EXERCISE.

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# Mensaje Inicial “Dummy”

El mensaje para el comienzo del ejercicio CARIBE WAVE 22 también será enviado por la cuenta de Twitter del PTWC.

“This is a test message for CARIBEWAVE 22 tsunami exercise #CaribeWave”  
(Será diseminado a las 14h00 UTC a las cuentas/suscriptores de NWS\_PTWC y  
NWS\_CTWP)



# Escenario Canal de Muertos Occidental

# Cronograma del Mensaje por PTWC

## Canal de Muertos Occidental

Date	Time (UTC)	PTWC	
		Tipos of Productos	Método de Transmisión
3/10/22	1400	----- Earthquake Occurs -----	
3/10/22	1400	Dummy	NWWS, GTS, EMWIN, AISR, Fax, Email
3/10/22	1407	Mensaje de Amenaza de Tsunami Inicial #1	Correo electrónico
3/10/22	1430	Mensaje de Amenaza de Tsunami #2 Producto Gráfico Mejorado	Correo electrónico
3/10/22	1500	Mensaje de Amenaza de Tsunami #3 Complementario con observaciones	Correo electrónico
3/10/22	1600	Mensaje de Amenaza de Tsunami #4 Complementario con observaciones	Correo electrónico
3/10/22	1700	Mensaje de Amenaza de Tsunami #5 Complementario con observaciones	Correo electrónico
3/10/22	1800	Mensaje de Amenaza de Tsunami #6 Complementario con observaciones	Correo electrónico
3/10/22	1900	Mensaje de Amenaza de Tsunami #7 Complementario con observaciones	Correo electrónico
3/10/22	2000	Mensaje de Amenaza de Tsunami Final #8	Correo electrónico

**PTWC Message #1**

ZCZC

WECA41 PHEB 101407

WMO ID

TSUCAX

AWIPS ID

TEST...TSUNAMI MESSAGE NUMBER 1...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI  
1407 UTC THU MAR 10 2022

...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 8.2  
\* ORIGIN TIME 1400 UTC MAR 10 2022  
\* COORDINATES 17.6 NORTH 69.5 WEST  
\* DEPTH 3 KM / 2 MILES  
\* LOCATION DOMINICAN REPUBLIC REGION

TEST... EVALUATION ...TEST

-----  
\* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.2 OCCURRED IN THE DOMINICAN REPUBLIC REGION AT 1400 UTC ON THURSDAY MARCH 10 2022.

\* THIS IS A TEST MESSAGE. BASED ON THE PRELIMINARY EARTHQUAKE PARAMETERS... WIDESPREAD HAZARDOUS TSUNAMI WAVES ARE POSSIBLE.

TEST... TSUNAMI THREAT FORECAST ...TEST

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

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

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)
SANTO DOMINGO	DOMINICAN REP	18.5N 69.9W	1415 03/10
JACAMEL	HAITI	18.1N 72.5W	1434 03/10
MAYAGUEZ	PUERTO RICO	18.2N 67.2W	1434 03/10

CABO ENGANO	DOMINICAN REP	18.6N	68.3W	1438	03/10
CHRISTIANSTED	US VIRGIN IS	17.7N	64.7W	1443	03/10
ONIMA	BONAIRE	12.3N	68.3W	1452	03/10
SAN JUAN	PUERTO RICO	18.5N	66.1W	1453	03/10
ORANJESTAD	ARUBA	12.5N	70.0W	1455	03/10
SABA	SABA	17.6N	63.2W	1505	03/10
PUERTO PLATA	DOMINICAN REP	19.8N	70.7W	1506	03/10
JEREMIE	HAITI	18.6N	74.1W	1509	03/10
BASSETERRE	SAINT KITTS	17.3N	62.7W	1510	03/10
SINT EUSTATIUS	SINT EUSTATIUS	17.5N	63.0W	1512	03/10
PLYMOUTH	MONTSERRAT	16.7N	62.2W	1513	03/10
SIMPSON BAAI	SINT MAARTEN	18.0N	63.1W	1514	03/10
SANTIAGO D CUBA	CUBA	19.9N	75.8W	1517	03/10
ANEGADA	BR VIRGIN IS	18.8N	64.3W	1517	03/10
GRAND TURK	TURKS N CAICOS	21.5N	71.1W	1518	03/10
BASSE TERRE	GUADELOUPE	16.0N	61.7W	1519	03/10
THE VALLEY	ANGUILLA	18.3N	63.1W	1522	03/10
CAP HAITEN	HAITI	19.8N	72.2W	1522	03/10
CHARLOTTE AMALI	US VIRGIN IS	18.3N	64.9W	1523	03/10
ROSEAU	DOMINICA	15.3N	61.4W	1523	03/10
WILLEMSTAD	CURACAO	12.1N	68.9W	1524	03/10
MAIQUETIA	VENEZUELA	10.6N	67.0W	1525	03/10
SANTA MARTA	COLOMBIA	11.2N	74.2W	1527	03/10
CASTRIES	SAINT LUCIA	14.0N	61.0W	1530	03/10
FORT DE FRANCE	MARTINIQUE	14.6N	61.1W	1532	03/10
WEST CAICOS	TURKS N CAICOS	21.7N	72.5W	1532	03/10
BARCOA	CUBA	20.4N	74.5W	1532	03/10
MAYAGUANA	BAHAMAS	22.3N	73.0W	1533	03/10
KINGSTOWN	SAINT VINCENT	13.1N	61.2W	1536	03/10
BAIE LUCAS	SAINT MARTIN	18.1N	63.0W	1536	03/10
GREAT INAGUA	BAHAMAS	20.9N	73.7W	1538	03/10
BAIE GRAND CASE	SAINT MARTIN	18.1N	63.1W	1539	03/10
SAINT BARTHELEM	SAINT BARTHELEMY	17.9N	62.8W	1541	03/10
CARTAGENA	COLOMBIA	10.4N	75.6W	1542	03/10
CAYMAN BRAC	CAYMAN ISLANDS	19.7N	79.9W	1546	03/10
PALMETTO POINT	BARBUDA	17.6N	61.9W	1549	03/10
SAN SALVADOR	BAHAMAS	24.1N	74.5W	1549	03/10
KINGSTON	JAMAICA	17.9N	76.9W	1550	03/10
SAINT GEORGES	GRENADA	12.0N	61.8W	1551	03/10
BARRANQUILLA	COLOMBIA	11.1N	74.9W	1551	03/10
CUMANA	VENEZUELA	10.5N	64.2W	1552	03/10
GIBARA	CUBA	21.1N	76.1W	1552	03/10
SAINT JOHNS	ANTIGUA	17.1N	61.9W	1552	03/10
MONTEGO BAY	JAMAICA	18.5N	77.9W	1554	03/10
BAIE BLANCHE	SAINT MARTIN	18.1N	63.0W	1555	03/10
RIOHACHA	COLOMBIA	11.6N	72.9W	1556	03/10
LONG ISLAND	BAHAMAS	23.3N	75.1W	1558	03/10
BRIDGETOWN	BARBADOS	13.1N	59.6W	1558	03/10

GRAND CAYMAN	CAYMAN ISLANDS	19.3N	81.3W	1602	03/10
ALIGANDI	PANAMA	9.2N	78.0W	1603	03/10
EXUMA	BAHAMAS	23.6N	75.9W	1606	03/10
CAT ISLAND	BAHAMAS	24.4N	75.5W	1607	03/10
SAN ANDRES	SAN ANDRES PROVI	13.4N	81.4W	1607	03/10
CROOKED ISLAND	BAHAMAS	22.7N	74.1W	1608	03/10
ROADTOWN	BR VIRGIN IS	18.4N	64.6W	1609	03/10
CIENFUEGOS	CUBA	22.0N	80.5W	1609	03/10
PUERTO CARRETO	PANAMA	8.8N	77.6W	1610	03/10
PROVIDENCIA	SAN ANDRES PROVI	12.6N	81.7W	1610	03/10
PORT AU PRINCE	HAITI	18.5N	72.4W	1613	03/10
ELEUTHERA ISLAN	BAHAMAS	25.2N	76.1W	1613	03/10
ANDROS ISLAND	BAHAMAS	25.0N	77.9W	1621	03/10
PUERTO OBALDIA	PANAMA	8.7N	77.4W	1622	03/10
PUNTA CARIBANA	COLOMBIA	8.6N	76.9W	1626	03/10
NASSAU	BAHAMAS	25.1N	77.4W	1634	03/10
PIRATES BAY	TRINIDAD TOBAGO	11.3N	60.6W	1634	03/10
ESSO PIER	BERMUDA	32.4N	64.7W	1637	03/10
PUERTO LIMON	COSTA RICA	10.0N	83.0W	1639	03/10
COLON	PANAMA	9.4N	79.9W	1643	03/10
FREEPORT	BAHAMAS	26.5N	78.8W	1646	03/10
ABACO ISLAND	BAHAMAS	26.6N	77.1W	1649	03/10
BOCAS DEL TORO	PANAMA	9.4N	82.2W	1654	03/10
BIMINI	BAHAMAS	25.8N	79.3W	1659	03/10
COZUMEL	MEXICO	20.5N	87.0W	1659	03/10
PUERTO CORTES	HONDURAS	15.9N	88.0W	1703	03/10
PORT OF SPAIN	TRINIDAD TOBAGO	10.6N	61.5W	1705	03/10

TEST... POTENTIAL IMPACTS ...TEST

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\* 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 de los Productos Gráficos de Pronóstico de Tsunamis del PTWC para 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



Enlace del video: <https://vimeo.com/showcase/8956022>

Para solicitar la contraseña, enviar correo electrónico a [christa.vonh@noaa.gov](mailto:christa.vonh@noaa.gov)

PTWC Message #2

ZCZC  
WECA41 PHEB 101430  
TSUCAX

WMO ID

AWIPS ID

TEST...TSUNAMI MESSAGE NUMBER 2...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI  
1430 UTC THU MAR 10 2022

...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 8.0  
\* ORIGIN TIME 1400 UTC MAR 10 2022  
\* COORDINATES 17.6 NORTH 69.5 WEST  
\* DEPTH 3 KM / 2 MILES  
\* LOCATION DOMINICAN REPUBLIC REGION

TEST... EVALUATION ...TEST

- 
- \* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.0 OCCURRED IN THE DOMINICAN REPUBLIC REGION AT 1400 UTC ON THURSDAY MARCH 10 2022.
  - \* 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

DOMINICAN REPUBLIC.

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

COLOMBIA... HAITI... VENEZUELA... ARUBA... BONAIRE...  
CURACAO... AND PUERTO RICO AND VIRGIN ISLANDS.

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

COSTA RICA... CUBA... NICARAGUA... PANAMA... ANGUILLA...  
ANTIGUA AND BARBUDA... BARBADOS... DOMINICA... GRENADA...  
GUADELOUPE... JAMAICA... MARTINIQUE... MONTSERRAT... SABA  
AND SAINT EUSTATIUS... SAINT BARTHELEMY... SAINT KITTS AND  
NEVIS... SAINT LUCIA... SINT MAARTEN... SAINT MARTIN...  
SAINT VINCENT AND THE GRENADINES... SAN ANDRES AND  
PROVIDENCIA... AND TRINIDAD AND TOBAGO.

- \* 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

- 
- \* 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 THREATENED REGIONS ARE GIVEN BELOW. 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)
SANTO DOMINGO	DOMINICAN REP	18.5N	69.9W	1415 03/10
JACAMEL	HAITI	18.1N	72.5W	1434 03/10
MAYAGUEZ	PUERTO RICO	18.2N	67.2W	1434 03/10
CABO ENGANO	DOMINICAN REP	18.6N	68.3W	1438 03/10
CHRISTIANSTED	US VIRGIN IS	17.7N	64.7W	1443 03/10
ONIMA	BONAIRE	12.3N	68.3W	1452 03/10
SAN JUAN	PUERTO RICO	18.5N	66.1W	1453 03/10
ORANJESTAD	ARUBA	12.5N	70.0W	1455 03/10
SABA	SABA	17.6N	63.2W	1505 03/10
PUERTO PLATA	DOMINICAN REP	19.8N	70.7W	1506 03/10
JEREMIE	HAITI	18.6N	74.1W	1509 03/10
BASSETERRE	SAINT KITTS	17.3N	62.7W	1510 03/10
SINT EUSTATIUS	SINT EUSTATIUS	17.5N	63.0W	1512 03/10
PLYMOUTH	MONTSERRAT	16.7N	62.2W	1513 03/10
SIMPSON BAAI	SINT MAARTEN	18.0N	63.1W	1514 03/10
SANTIAGO D CUBA	CUBA	19.9N	75.8W	1517 03/10
ANEGADA	BR VIRGIN IS	18.8N	64.3W	1517 03/10
BASSE TERRE	GUADELOUPE	16.0N	61.7W	1519 03/10
THE VALLEY	ANGUILLA	18.3N	63.1W	1522 03/10
CHARLOTTE AMALI	US VIRGIN IS	18.3N	64.9W	1523 03/10
ROSEAU	DOMINICA	15.3N	61.4W	1523 03/10
WILLEMSTAD	CURACAO	12.1N	68.9W	1524 03/10
MAIQUETIA	VENEZUELA	10.6N	67.0W	1525 03/10
SANTA MARTA	COLOMBIA	11.2N	74.2W	1527 03/10
CASTRIES	SAINT LUCIA	14.0N	61.0W	1530 03/10
FORT DE FRANCE	MARTINIQUE	14.6N	61.1W	1532 03/10
KINGSTOWN	SAINT VINCENT	13.1N	61.2W	1536 03/10
BAIE LUCAS	SAINT MARTIN	18.1N	63.0W	1536 03/10
BAIE GRAND CASE	SAINT MARTIN	18.1N	63.1W	1539 03/10
SAINT BARTHELEM	SAINT BARTHELEMY	17.9N	62.8W	1541 03/10
CARTAGENA	COLOMBIA	10.4N	75.6W	1542 03/10
PALMETTO POINT	BARBUDA	17.6N	61.9W	1549 03/10
KINGSTON	JAMAICA	17.9N	76.9W	1550 03/10
SAINTE GEORGES	GRENADA	12.0N	61.8W	1551 03/10
BARRANQUILLA	COLOMBIA	11.1N	74.9W	1551 03/10
CUMANA	VENEZUELA	10.5N	64.2W	1552 03/10
SAINTE JOHNS	ANTIGUA	17.1N	61.9W	1552 03/10
MONTEGO BAY	JAMAICA	18.5N	77.9W	1554 03/10
BAIE BLANCHE	SAINT MARTIN	18.1N	63.0W	1555 03/10
RIOHACHA	COLOMBIA	11.6N	72.9W	1556 03/10
BRIDGETOWN	BARBADOS	13.1N	59.6W	1558 03/10
ALIGANDI	PANAMA	9.2N	78.0W	1603 03/10
SAN ANDRES	SAN ANDRES PROVI	13.4N	81.4W	1607 03/10
ROADTOWN	BR VIRGIN IS	18.4N	64.6W	1609 03/10
CIENFUEGOS	CUBA	22.0N	80.5W	1609 03/10
PUERTO CARRETO	PANAMA	8.8N	77.6W	1610 03/10

PROVIDENCIA	SAN ANDRES PROVI	12.6N	81.7W	1610 03/10
PORT AU PRINCE	HAITI	18.5N	72.4W	1613 03/10
PUERTO OBALDIA	PANAMA	8.7N	77.4W	1622 03/10
PUNTA CARIBANA	COLOMBIA	8.6N	76.9W	1626 03/10
PIRATES BAY	TRINIDAD TOBAGO	11.3N	60.6W	1634 03/10
PUERTO LIMON	COSTA RICA	10.0N	83.0W	1639 03/10
COLON	PANAMA	9.4N	79.9W	1643 03/10
BOCAS DEL TORO	PANAMA	9.4N	82.2W	1654 03/10
PORT OF SPAIN	TRINIDAD TOBAGO	10.6N	61.5W	1705 03/10
PUNTO FIJO	VENEZUELA	11.7N	70.2W	1720 03/10
PUNTA GORDA	NICARAGUA	11.4N	83.8W	1729 03/10
GOLFO VENEZUELA	VENEZUELA	11.4N	71.2W	1819 03/10
SANTA CRZ D SUR	CUBA	20.7N	78.0W	1833 03/10
PORLAMAR	VENEZUELA	10.9N	63.8W	1913 03/10
NUEVA GERONA	CUBA	21.9N	82.8W	2010 03/10
PUERTO CABEZAS	NICARAGUA	14.0N	83.4W	2057 03/10

TEST... POTENTIAL IMPACTS ...TEST

- 
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  - \* 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 LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM TSUNAMI HEIGHT	WAVE PERIOD
	LAT	LOE	(UTC)	HEIGHT	(MIN)
DART 42407	15.3N	68.2W	1428	0.14M/ 0.5FT	24
MONA ISLAND PR	18.1N	67.9W	1423	1.91M/ 6.3FT	16



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

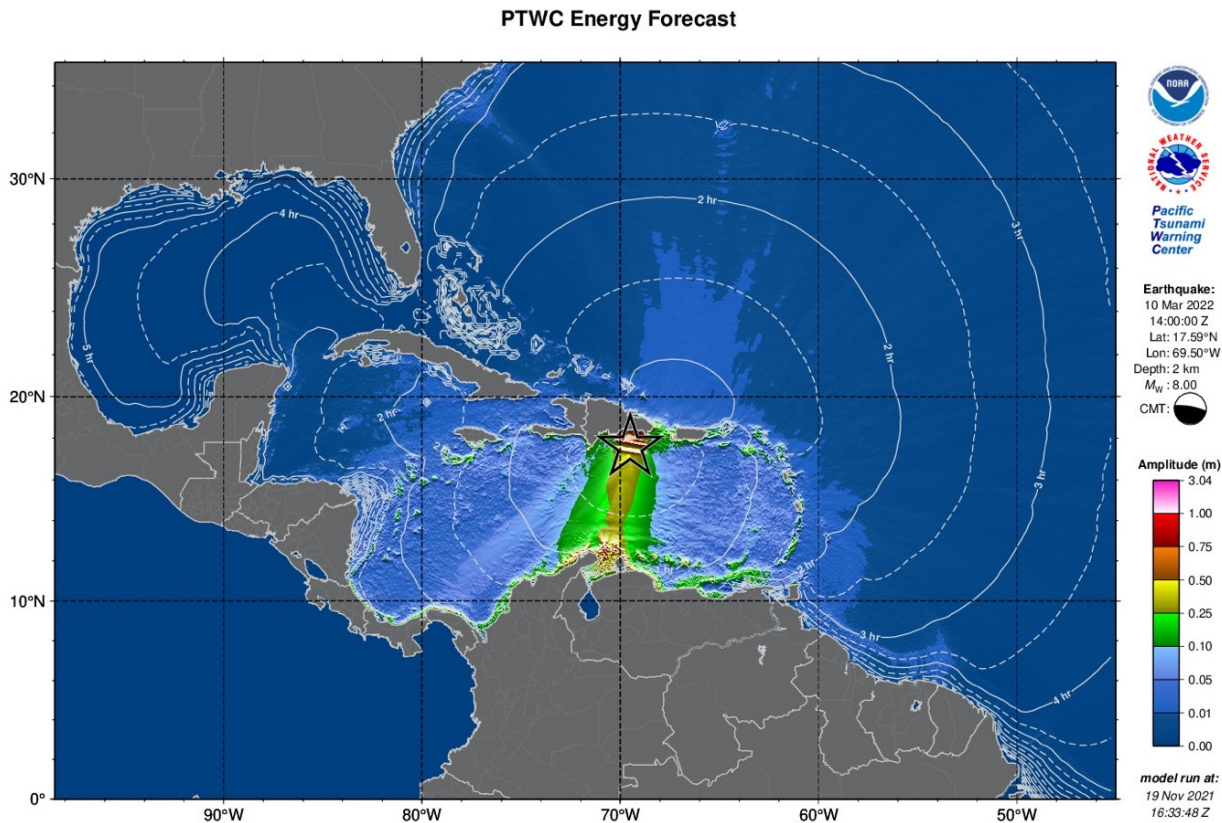
- 
- \* THIS IS A TEST MESSAGE. THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF THE SITUATION WARRANTS.
  - \* THIS IS A TEST MESSAGE. AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT EARTHQUAKE.USGS.GOV.
  - \* THIS IS A TEST 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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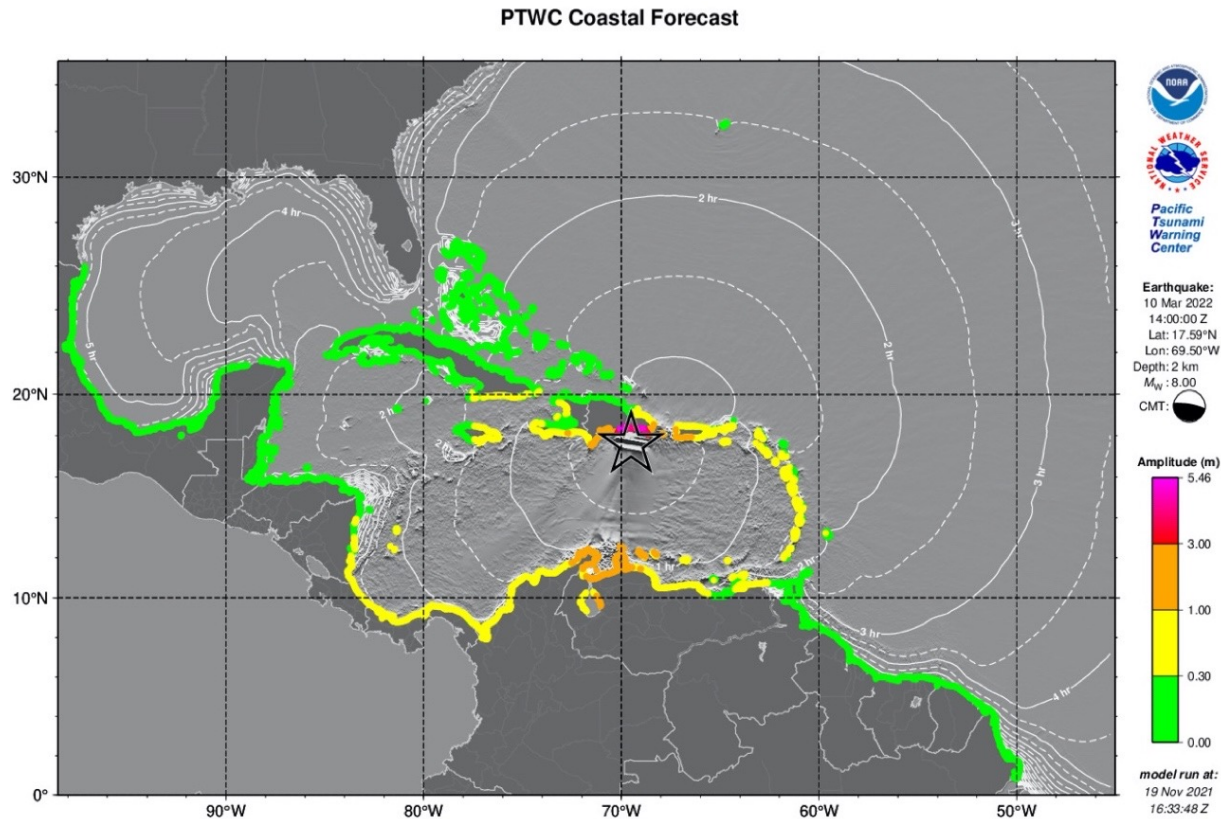
# Pronóstico de Amplitud de Olas de Tsunami Canal de Muertos Occidental



**Mapa RIFT con la amplitud máxima del tsunami basado en el escenario de Canal de Muertos Occidental.**

Durante un evento real, este producto sólo se pondrá a disposición de los oficialmente designados Puntos Focales de Alerta de Tsunami y Contactos Nacionales de Tsunami.

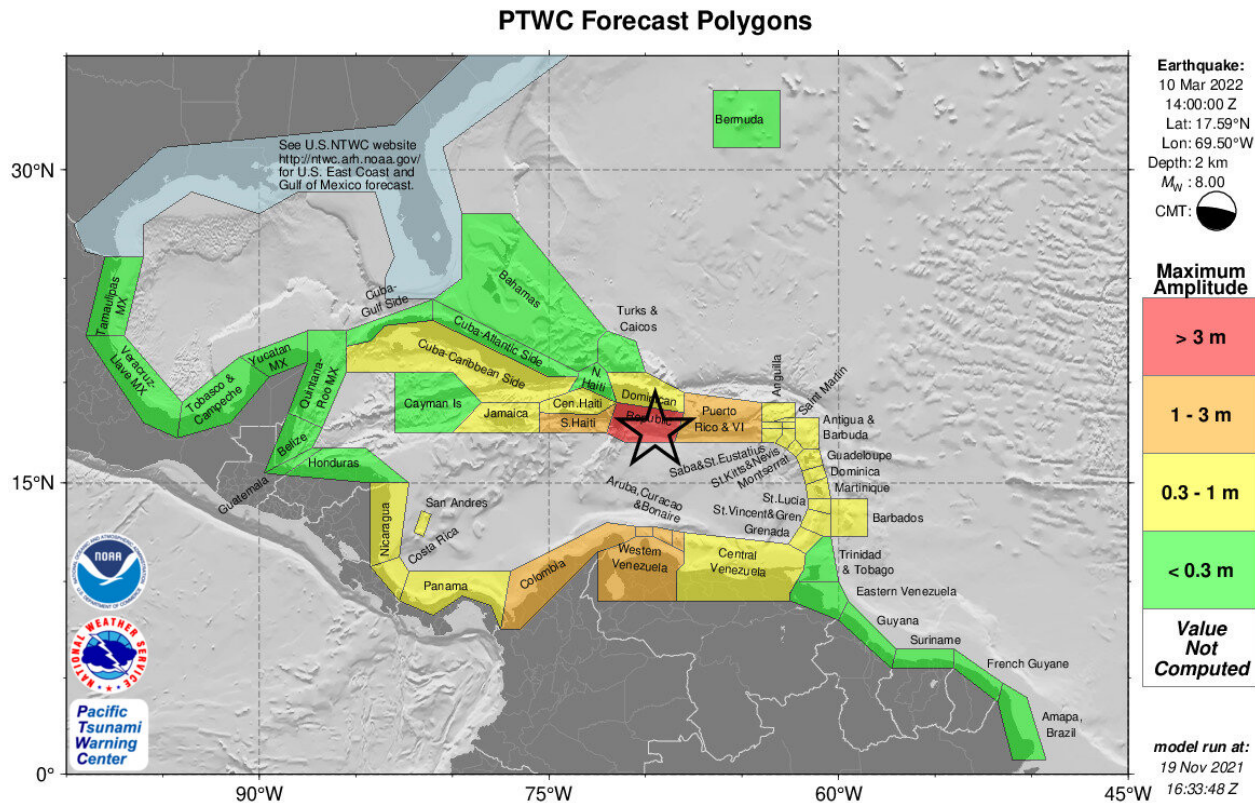
# Pronóstico de Amplitud de Olas de Tsunami Canal de Muertos Occidental



**Mapa RIFT con la amplitud máxima del tsunami en la costa del Sur del Caribe basado en el escenario de Canal de Muertos Occidental.**

Durante un evento real, este producto sólo se pondrá a disposición de los oficialmente designados Puntos Focales de Alerta de Tsunami y Contactos Nacionales de Tsunami.

# Pronóstico de Amplitud de Olas de Tsunami Canal de Muertos Occidental



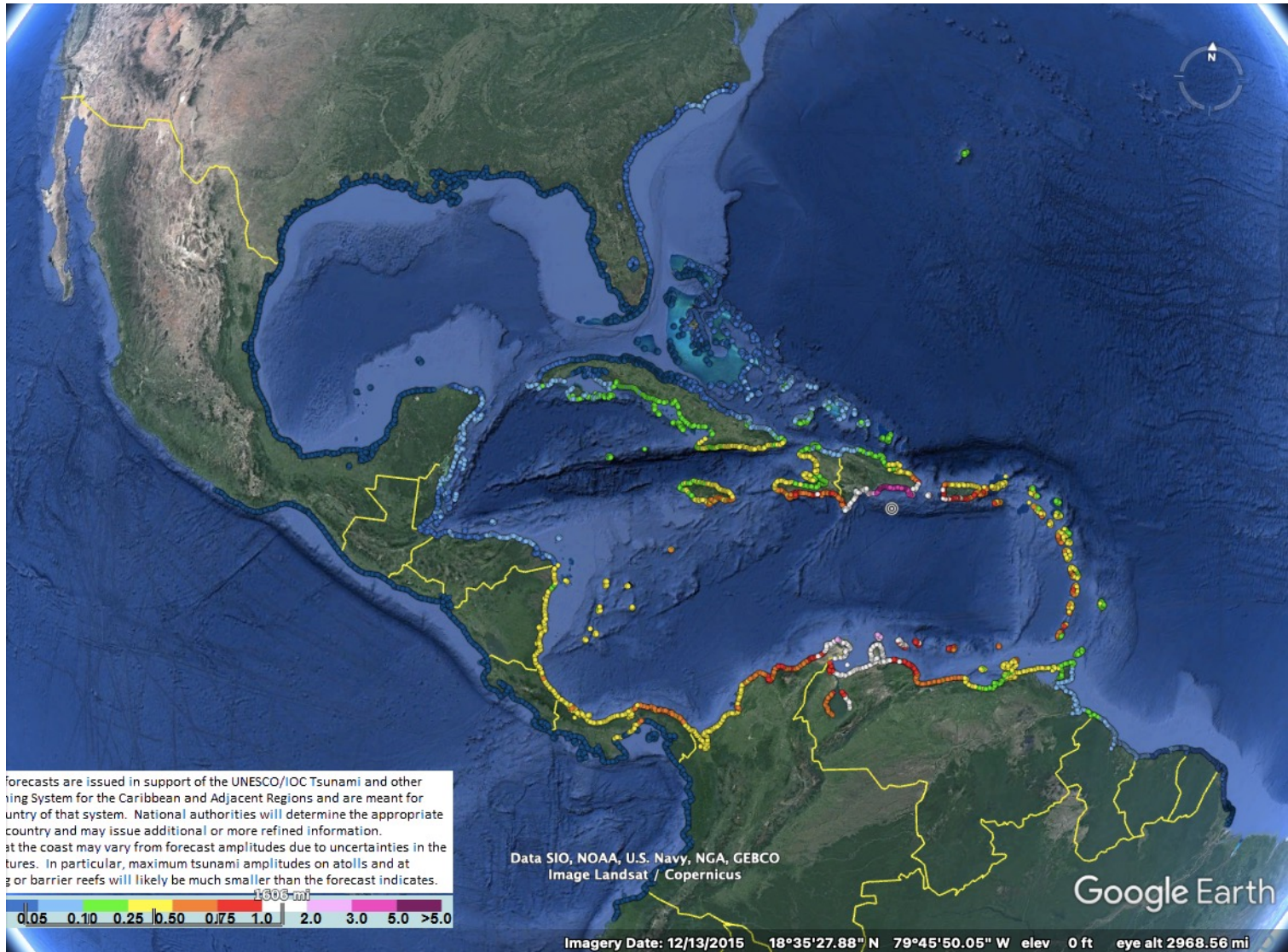
**Mapa RIFT de polígonos de pronóstico para la región del Caribe basado en el escenario de Canal de Muertos Occidental.**

Durante un evento real, este producto sólo se pondrá a disposición de los oficialmente designados Puntos Focales de Alerta de Tsunami y Contactos Nacionales de Tsunami.



# KMZ

## Canal de Muertos Occidental



# Estadísticas de pronóstico para polígonos regionales\*

## Canal de Muertos Occidental

Region_Name	Coastal Forecast (meters)				Offshore Forecast (meters)				Total Points
	Maximum	Mean	Median	STD	Maximum	Mean	Median	STD	
Caribbean_Coast_of_Dominican_Republic	5.5	2.20	1.40	1.40	3.0	0.90	0.60	0.67	151
Aruba	2.8	2.20	2.20	0.38	1.3	0.74	0.63	0.25	13
Caribbean_Coast_of_Colombia	2.0	0.69	0.57	0.38	0.97	0.21	0.17	0.15	316
Curacao	1.8	1.20	1.20	0.26	0.93	0.48	0.46	0.19	26
Western_Coast_of_Venezuela	1.7	1.10	1.10	0.29	0.80	0.24	0.19	0.19	255
Bonaire	1.4	0.99	0.94	0.14	0.75	0.44	0.40	0.17	15
Puerto_Rico_and_Virgin_Islands	1.3	0.60	0.55	0.25	0.76	0.20	0.16	0.13	224
Central_Coast_of_Venezuela	1.0	0.37	0.34	0.15	0.62	0.16	0.12	0.09	347
Caribbean_Coast_of_Haiti	1.0	0.70	0.70	0.15	0.63	0.22	0.20	0.10	98
Caribbean_Coast_of_Panama	0.84	0.47	0.46	0.13	0.45	0.17	0.15	0.09	206
Saint_Lucia	0.79	0.48	0.54	0.18	0.42	0.20	0.18	0.09	28
Grenada	0.78	0.48	0.53	0.22	0.32	0.16	0.15	0.06	28
Atlantic_Coast_of_Dominican_Republic	0.76	0.25	0.22	0.16	0.45	0.09	0.07	0.08	150
Martinique	0.69	0.45	0.47	0.12	0.62	0.18	0.15	0.10	40
Saint_Vincent_and_the_Grenadines	0.67	0.49	0.48	0.12	0.30	0.17	0.16	0.06	25
Jamaica	0.63	0.36	0.34	0.13	0.41	0.13	0.11	0.07	146
Guadeloupe	0.61	0.37	0.37	0.11	0.29	0.14	0.13	0.05	67
Saint_Kitts_and_Nevis	0.61	0.40	0.38	0.11	0.33	0.15	0.13	0.07	28
Dominica	0.60	0.41	0.41	0.09	0.19	0.12	0.11	0.03	30
Montserrat	0.59	0.42	0.40	0.09	0.20	0.13	0.12	0.03	11
San_Andres_and_Providencia	0.52	0.34	0.31	0.08	0.25	0.12	0.10	0.05	18
Saba_and_Saint_Eustatius	0.52	0.39	0.36	0.07	0.24	0.15	0.14	0.06	5
Caribbean_Coast_of_Costa_Rica	0.52	0.44	0.43	0.04	0.35	0.19	0.18	0.06	48
Caribbean_Coast_of_Nicaragua	0.50	0.31	0.30	0.07	0.14	0.04	0.04	0.03	137
Antigua_and_Barbuda	0.45	0.27	0.20	0.11	0.17	0.12	0.12	0.03	32
Gulf_of_Gonave_Coast_of_Haiti	0.45	0.24	0.25	0.07	0.26	0.07	0.06	0.04	155
Saint_Martin	0.44	0.37	0.35	0.03	0.15	0.14	0.15	0.01	7
Sint_Maarten	0.44	0.39	0.38	0.03	0.16	0.13	0.13	0.02	5
Caribbean_Coast_of_Cuba	0.40	0.14	0.11	0.10	0.22	0.03	0.02	0.03	519
Anguilla	0.39	0.31	0.32	0.08	0.17	0.14	0.14	0.02	8
Saint_Barthelemy	0.39	0.32	0.39	0.11	0.16	0.13	0.13	0.02	6
Barbados	0.32	0.19	0.19	0.05	0.16	0.09	0.09	0.03	20
Trinidad_and_Tobago	0.30	0.14	0.17	0.06	0.12	0.04	0.04	0.03	107
Atlantic_Coast_of_Haiti	0.28	0.11	0.10	0.04	0.09	0.03	0.03	0.01	74
Cayman_Islands	0.20	0.12	0.11	0.03	0.05	0.03	0.04	0.01	11
Bermuda	0.19	0.16	0.16	0.02	0.19	0.06	0.04	0.04	15
Atlantic_Coast_of_Cuba	0.15	0.03	0.01	0.03	0.07	0.01	0.00	0.01	425
Bahamas	0.15	0.03	0.02	0.03	0.07	0.01	0.00	0.01	1151
Atlantic_Coast_of_Venezuela	0.13	0.09	0.10	0.02	0.04	0.01	0.01	0.01	107
Turks_and_Caicos_Islands	0.12	0.07	0.07	0.02	0.06	0.03	0.02	0.01	119
Guyana	0.11	0.07	0.07	0.01	0.03	0.01	0.01	0.00	112
Quintana_Roo_Mexico	0.09	0.06	0.06	0.01	0.04	0.01	0.01	0.01	194
Yucatan_Mexico	0.08	0.01	0.00	0.02	0.01	0.00	0.00	0.00	69
Belize	0.08	0.05	0.05	0.01	0.02	0.01	0.01	0.00	151
Caribbean_Coast_of_Honduras	0.07	0.05	0.05	0.01	0.05	0.01	0.01	0.01	193
Suriname	0.07	0.05	0.05	0.01	0.03	0.01	0.01	0.00	107
Gulf_of_Mexico_Coast_of_Cuba	0.06	0.01	0.01	0.01	0.02	0.00	0.00	0.00	117
Caribbean_Coast_of_Guatemala	0.05	0.03	0.04	0.01	0.01	0.01	0.01	0.00	35
French_Guyane	0.04	0.02	0.02	0.01	0.02	0.01	0.00	0.00	87
Amapa_Brazil	0.02	0.01	0.01	0.00	0.01	0.00	0.00	0.00	170

\* Las amplitudes reales en la costa pueden variar de las amplitudes de pronóstico debido a las incertidumbres en el pronóstico y las características locales. En particular, las amplitudes máximas de los tsunamis en las islas pequeñas probablemente serán mucho menores de lo previsto.

PTWC Message #8

ZCZC

WECA41 PHEB 102000

WMO ID

TSUCAX

AWIPS ID

TEST...TSUNAMI MESSAGE NUMBER 8...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI  
2000 UTC THU MAR 10 2022

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 8.0  
\* ORIGIN TIME 1400 UTC MAR 10 2022  
\* COORDINATES 17.6 NORTH 69.5 WEST  
\* DEPTH 3 KM / 2 MILES  
\* LOCATION DOMINICAN REPUBLIC REGION

TEST... EVALUATION ...TEST

\* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.0 OCCURRED IN THE DOMINICAN REPUBLIC REGION AT 1400 UTC ON THURSDAY MARCH 10 2022.  
\* 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 HEIGHT	WAVE PERIOD
	LAT	LOX	(UTC)		(MIN)
BEAUFORT NC	34.7N	76.7W	1845	0.07M/ 0.2FT	28
PORT OF BELIZE BZ	17.5N	88.2W	1827	0.05M/ 0.2FT	24
CORN ISLAND NI	12.3N	83.1W	1738	0.54M/ 1.8FT	20
CEIBA CABOTAGE HN	15.8N	86.8W	1721	0.06M/ 0.2FT	20
PUERTO CORTES HN	15.8N	88.0W	1717	0.08M/ 0.2FT	20
PUERTO MORELOS MX	20.9N	86.9W	1708	0.10M/ 0.3FT	18
PUERTO MORELOS MX	20.9N	86.9W	1701	0.10M/ 0.3FT	24

PUERTO MORELOS MX	20.9N	86.9W	1702	0.10M/	0.3FT	18
ROATAN ISLAND HN	16.3N	86.5W	1650	0.05M/	0.2FT	28
LIMON CR	10.0N	83.0W	1650	0.64M/	2.1FT	18
BERMUDA UK	32.4N	64.7W	1651	0.32M/	1.1FT	20
BERMUDA BIO STA UK	32.4N	64.7W	1651	0.21M/	0.7FT	22
SCARBOROUGH TT	11.2N	60.7W	1639	0.23M/	0.7FT	26
SAPZURRO CO	8.7N	77.4W	1631	0.55M/	1.8FT	22
EL PORVENIR PA	9.6N	78.9W	1622	1.20M/	3.9FT	24
PORT AU PRINCE HT	18.5N	72.4W	1621	0.35M/	1.1FT	28
SAN ANDRES CO	12.6N	81.7W	1625	0.40M/	1.3FT	18
TORTOLA VI UK	18.4N	64.6W	1618	1.01M/	3.3FT	14
GEORGE TOWN KY	19.3N	81.4W	1605	0.15M/	0.5FT	18
BARBUDA AG	17.6N	61.8W	1606	0.24M/	0.8FT	24
PORT ST CHARLES BB	13.3N	59.6W	1609	0.29M/	1.0FT	26
GANTERS BAY ST LUCI	14.0N	61.0W	1606	0.79M/	2.6FT	22
PRICKLEY BAY GD	12.0N	61.8W	1601	0.89M/	2.9FT	22
PORT ROYAL JM	17.9N	76.8W	1601	0.76M/	2.5FT	26
ISLA NAVAL CO	10.2N	75.8W	1557	0.76M/	2.5FT	16
LE ROBERT MARTINIQU	14.7N	60.9W	1555	0.31M/	1.0FT	22
CALLIAQUA VC	13.1N	61.2W	1549	0.93M/	3.0FT	26
BLOWING POINT AI	18.2N	63.1W	1546	0.58M/	1.9FT	22
PARHAM AT	17.1N	61.8W	1543	0.29M/	1.0FT	18
DESIRADE GUADELOUPE	16.3N	61.1W	1548	0.24M/	0.8FT	28
POINT A PITRE GP	16.2N	61.5W	1547	0.47M/	1.5FT	24
FORT DE FRANCE MQ	14.6N	61.1W	1538	0.85M/	2.8FT	14
SAINT MARTIN FR	18.1N	63.1W	1543	0.55M/	1.8FT	26
CULEBRA IS PR	18.3N	65.3W	1538	1.08M/	3.5FT	28
SANTA MARTA CO	11.2N	74.2W	1534	1.04M/	3.4FT	28
LE PRECHEUR MARTINI	14.8N	61.2W	1530	0.62M/	2.0FT	22
ROSEAU DM	15.3N	61.4W	1530	0.66M/	2.2FT	16
CHARLOTTE-AMALIE VI	18.3N	64.9W	1531	0.46M/	1.5FT	28
CAP HAITIEN HT	19.8N	72.2W	1536	0.14M/	0.5FT	22
PORTSMOUTH DM	15.6N	61.5W	1536	0.82M/	2.7FT	28
LAMESHURBAYSTJOHNVI	18.3N	64.7W	1530	0.53M/	1.7FT	16
DESHAIES GUADELOUPE	16.3N	61.8W	1529	0.75M/	2.5FT	18
GRAND TURK ISLAND T	21.4N	71.1W	1527	0.11M/	0.4FT	20
BASSETERRE KN	17.3N	62.7W	1516	0.35M/	1.1FT	24
PUERTO PLATA DO	19.8N	70.7W	1518	0.22M/	0.7FT	26
ISABELII VIEQUES PR	18.2N	65.4W	1508	0.89M/	2.9FT	18
BULLEN BAY CURACAO	12.2N	69.0W	1508	1.09M/	3.6FT	26
ORANGESTAD AW	12.5N	70.0W	1501	3.57M/	11.7FT	26
SAN JUAN PR	18.5N	66.1W	1507	0.70M/	2.3FT	26
ARECIBO PR	18.5N	66.7W	1500	0.58M/	1.9FT	20
ESPERANZA VIEQUES P	18.1N	65.5W	1459	0.88M/	2.9FT	22
LIMETREE VI	17.7N	64.8W	1455	0.84M/	2.8FT	22
ST CROIX VI	17.7N	64.7W	1452	0.74M/	2.4FT	16
YABUCOA PR	18.1N	65.8W	1448	1.20M/	3.9FT	24
MAYAGUEZ PR	18.2N	67.2W	1447	1.30M/	4.3FT	14

PUNTA CANA DO	18.5N	68.4W	1440	2.03M/	6.6FT	20
DART 42407	15.3N	68.2W	1428	0.14M/	0.5FT	24
BARAHONA DO	18.2N	71.1W	1432	3.05M/	10.0FT	22
MONA ISLAND PR	18.1N	67.9W	1423	1.91M/	6.3FT	16

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

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\* 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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# Norte de Panama

# Cronograma del Mensaje por PTWC Norte de Panama

Fecha	Hora (UTC)	PTWC	
		Tipos de Productos	Métodos de Transmisión
3/10/22	1400	- - - - Se produce el terremoto - - - -	
3/10/22	1400	Dummy	NWWS, GTS, EMWIN, AISR, Fax, Correo electrónico
3/10/22	1407	Mensaje de Amenaza de Tsunami Inicial #1	Correo electrónico
3/10/22	1430	Mensaje de Amenaza de Tsunami #2 Producto Gráfico Mejorado	Correo electrónico
3/10/22	1500	Mensaje de Amenaza de Tsunami #3 Complementario con observaciones	Correo electrónico
3/10/22	1600	Mensaje de Amenaza de Tsunami #4 Complementario con observaciones	Correo electrónico
3/10/22	1700	Mensaje de Amenaza de Tsunami #5 Complementario con observaciones	Correo electrónico
3/10/22	1800	Mensaje de Amenaza de Tsunami #6 Complementario con observaciones	Correo electrónico
3/10/22	1900	Mensaje de Amenaza de Tsunami #7 Complementario con observaciones	Correo electrónico
3/10/22	2000	Mensaje de Amenaza de Tsunami Final #8	Correo electrónico

PTWC Message #1

ZCZC

WECA41 PHEB 101407

WMO ID

TSUCAX

AWIPS ID

TEST...TSUNAMI MESSAGE NUMBER 1...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI  
1407 UTC THU MAR 10 2022

...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 8.3  
\* ORIGIN TIME 1400 UTC MAR 10 2022  
\* COORDINATES 9.4 NORTH 80.3 WEST  
\* DEPTH 25 KM / 16 MILES  
\* LOCATION PANAMA

TEST... EVALUATION ...TEST

\* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.3 OCCURRED IN PANAMA AT 1400 UTC ON THURSDAY MARCH 10 2022.

\* THIS IS A TEST MESSAGE. BASED ON THE PRELIMINARY EARTHQUAKE PARAMETERS... WIDESPREAD HAZARDOUS TSUNAMI WAVES ARE POSSIBLE.

TEST... TSUNAMI THREAT FORECAST ...TEST

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

PANAMA... COSTA RICA... SAN ANDRES PROVID... COLOMBIA...  
NICARAGUA... HAITI... CAYMAN ISLANDS... ARUBA...  
JAMAICA... CUBA... BONAIRE... DOMINICAN REP... BAHAMAS...  
CURACAO... PUERTO RICO... TURKS N CAICOS... US VIRGIN IS  
AND VENEZUELA

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)
COLON	PANAMA	9.4N 79.9W	1443 03/10
PUERTO LIMON	COSTA RICA	10.0N 83.0W	1446 03/10
ALIGANDI	PANAMA	9.2N 78.0W	1448 03/10
PROVIDENCIA	SAN ANDRES PROVI	12.6N 81.7W	1450 03/10
SAN ANDRES	SAN ANDRES PROVI	13.4N 81.4W	1455 03/10
BOCAS DEL TORO	PANAMA	9.4N 82.2W	1456 03/10
PUERTO CARRETO	PANAMA	8.8N 77.6W	1503 03/10
CARTAGENA	COLOMBIA	10.4N 75.6W	1509 03/10
PUERTO OBALDIA	PANAMA	8.7N 77.4W	1517 03/10
PUNTA CARIBANA	COLOMBIA	8.6N 76.9W	1526 03/10
SANTA MARTA	COLOMBIA	11.2N 74.2W	1527 03/10
BARRANQUILLA	COLOMBIA	11.1N 74.9W	1542 03/10
PUNTA GORDA	NICARAGUA	11.4N 83.8W	1545 03/10
JACAMEL	HAITI	18.1N 72.5W	1558 03/10
CAYMAN BRAC	CAYMAN ISLANDS	19.7N 79.9W	1610 03/10
ORANJESTAD	ARUBA	12.5N 70.0W	1612 03/10
JEREMIE	HAITI	18.6N 74.1W	1614 03/10
KINGSTON	JAMAICA	17.9N 76.9W	1615 03/10
SANTIAGO D CUBA	CUBA	19.9N 75.8W	1616 03/10
RIOHACHA	COLOMBIA	11.6N 72.9W	1617 03/10
GRAND CAYMAN	CAYMAN ISLANDS	19.3N 81.3W	1618 03/10
ONIMA	BONAIRE	12.3N 68.3W	1622 03/10
SANTO DOMINGO	DOMINICAN REP	18.5N 69.9W	1628 03/10
MONTEGO BAY	JAMAICA	18.5N 77.9W	1634 03/10

BARACOA	CUBA	20.4N	74.5W	1637	03/10
CIENFUEGOS	CUBA	22.0N	80.5W	1638	03/10
GREAT INAGUA	BAHAMAS	20.9N	73.7W	1643	03/10
WILLEMSTAD	CURACAO	12.1N	68.9W	1646	03/10
MAYAGUEZ	PUERTO RICO	18.2N	67.2W	1647	03/10
CAP HAITEN	HAITI	19.8N	72.2W	1649	03/10
CABO ENGANO	DOMINICAN REP	18.6N	68.3W	1653	03/10
WEST CAICOS	TURKS N CAICOS	21.7N	72.5W	1653	03/10
CHRISTIANSTED	US VIRGIN IS	17.7N	64.7W	1654	03/10
GIBARA	CUBA	21.1N	76.1W	1657	03/10
MAYAGUANA	BAHAMAS	22.3N	73.0W	1657	03/10
MAIQUETIA	VENEZUELA	10.6N	67.0W	1659	03/10
PUERTO PLATA	DOMINICAN REP	19.8N	70.7W	1700	03/10
SAN JUAN	PUERTO RICO	18.5N	66.1W	1706	03/10

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

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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.

PTWC Message #2

ZCZC  
WECA41 PHEB 101430 **WMO ID**  
TSUCAX **AWIPS ID**

TEST...TSUNAMI MESSAGE NUMBER 2...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI  
1430 UTC THU MAR 10 2022

...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 8.3  
\* ORIGIN TIME 1400 UTC MAR 10 2022  
\* COORDINATES 9.4 NORTH 80.3 WEST  
\* DEPTH 25 KM / 16 MILES  
\* LOCATION PANAMA

TEST... EVALUATION ...TEST

-----  
\* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY  
MAGNITUDE OF 8.3 OCCURRED IN PANAMA AT 1400 UTC ON  
THURSDAY MARCH 10 2022.

\* 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

NICARAGUA... PANAMA... AND SAN ANDRES AND PROVIDENCIA.

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

COLOMBIA... COSTA RICA... AND JAMAICA.

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

CUBA... DOMINICAN REPUBLIC... HAITI... HONDURAS...  
MEXICO... VENEZUELA... ANTIGUA AND BARBUDA... ARUBA...  
BAHAMAS... BONAIRE... CAYMAN ISLANDS... CURACAO...  
GUADELOUPE... MARTINIQUE... MONTSERRAT... PUERTO RICO AND  
VIRGIN ISLANDS... SABA AND SAINT EUSTATIUS... SAINT KITTS  
AND NEVIS... SAINT LUCIA... AND SAINT VINCENT AND THE  
GRENADINES.

\* 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

\* 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 THREATENED REGIONS ARE GIVEN BELOW. 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)
COLON	PANAMA	9.4N 79.9W	1443 03/10
PUERTO LIMON	COSTA RICA	10.0N 83.0W	1446 03/10
ALIGANDI	PANAMA	9.2N 78.0W	1448 03/10
PROVIDENCIA	SAN ANDRES PROVI	12.6N 81.7W	1450 03/10
SAN ANDRES	SAN ANDRES PROVI	13.4N 81.4W	1455 03/10
BOCAS DEL TORO	PANAMA	9.4N 82.2W	1456 03/10
PUERTO CARRETO	PANAMA	8.8N 77.6W	1503 03/10
CARTAGENA	COLOMBIA	10.4N 75.6W	1509 03/10
PUERTO OBALDIA	PANAMA	8.7N 77.4W	1517 03/10
PUNTA CARIBANA	COLOMBIA	8.6N 76.9W	1526 03/10
SANTA MARTA	COLOMBIA	11.2N 74.2W	1527 03/10
BARRANQUILLA	COLOMBIA	11.1N 74.9W	1542 03/10
PUNTA GORDA	NICARAGUA	11.4N 83.8W	1545 03/10
JACAMEL	HAITI	18.1N 72.5W	1558 03/10
CAYMAN BRAC	CAYMAN ISLANDS	19.7N 79.9W	1610 03/10
ORANJESTAD	ARUBA	12.5N 70.0W	1612 03/10
JEREMIE	HAITI	18.6N 74.1W	1614 03/10
KINGSTON	JAMAICA	17.9N 76.9W	1615 03/10
SANTIAGO D CUBA	CUBA	19.9N 75.8W	1616 03/10
RIOHACHA	COLOMBIA	11.6N 72.9W	1617 03/10
GRAND CAYMAN	CAYMAN ISLANDS	19.3N 81.3W	1618 03/10
ONIMA	BONAIRE	12.3N 68.3W	1622 03/10
SANTO DOMINGO	DOMINICAN REP	18.5N 69.9W	1628 03/10
MONTEGO BAY	JAMAICA	18.5N 77.9W	1634 03/10
BARACOA	CUBA	20.4N 74.5W	1637 03/10
CIENFUEGOS	CUBA	22.0N 80.5W	1638 03/10
GREAT INAGUA	BAHAMAS	20.9N 73.7W	1643 03/10
WILLEMSTAD	CURACAO	12.1N 68.9W	1646 03/10
MAYAGUEZ	PUERTO RICO	18.2N 67.2W	1647 03/10
CAP HAITEN	HAITI	19.8N 72.2W	1649 03/10
CHRISTIANSTED	US VIRGIN IS	17.7N 64.7W	1654 03/10
GIBARA	CUBA	21.1N 76.1W	1657 03/10
MAYAGUANA	BAHAMAS	22.3N 73.0W	1657 03/10

MAIQUETIA	VENEZUELA	10.6N 67.0W	1659 03/10
SAN JUAN	PUERTO RICO	18.5N 66.1W	1706 03/10
PUERTO CORTES	HONDURAS	15.9N 88.0W	1713 03/10
COZUMEL	MEXICO	20.5N 87.0W	1713 03/10
SABA	SABA	17.6N 63.2W	1715 03/10
LONG ISLAND	BAHAMAS	23.3N 75.1W	1716 03/10
BASSETERRE	SAINT KITTS	17.3N 62.7W	1717 03/10
SAN SALVADOR	BAHAMAS	24.1N 74.5W	1717 03/10
PORT AU PRINCE	HAITI	18.5N 72.4W	1718 03/10
PLYMOUTH	MONTSEERRAT	16.7N 62.2W	1718 03/10
SINT EUSTATIUS	SINT EUSTATIUS	17.5N 63.0W	1720 03/10
BASSE TERRE	GUADELOUPE	16.0N 61.7W	1720 03/10
CASTRIES	SAINT LUCIA	14.0N 61.0W	1724 03/10
KINGSTOWN	SAINT VINCENT	13.1N 61.2W	1725 03/10
EXUMA	BAHAMAS	23.6N 75.9W	1727 03/10
FORT DE FRANCE	MARTINIQUE	14.6N 61.1W	1728 03/10
ANEGADA	BR VIRGIN IS	18.8N 64.3W	1729 03/10
CUMANA	VENEZUELA	10.5N 64.2W	1731 03/10
CROOKED ISLAND	BAHAMAS	22.7N 74.1W	1732 03/10
CHARLOTTE AMALI	US VIRGIN IS	18.3N 64.9W	1734 03/10
CAT ISLAND	BAHAMAS	24.4N 75.5W	1735 03/10
ELEUTHERA ISLAN	BAHAMAS	25.2N 76.1W	1744 03/10
ANDROS ISLAND	BAHAMAS	25.0N 77.9W	1752 03/10
SAINT JOHNS	ANTIGUA	17.1N 61.9W	1757 03/10
TRUJILLO	HONDURAS	15.9N 86.0W	1759 03/10
PALMETTO POINT	BARBUDA	17.6N 61.9W	1800 03/10
NASSAU	BAHAMAS	25.1N 77.4W	1805 03/10
FREEPORT	BAHAMAS	26.5N 78.8W	1817 03/10
ROADTOWN	BR VIRGIN IS	18.4N 64.6W	1821 03/10
ABACO ISLAND	BAHAMAS	26.6N 77.1W	1822 03/10
BIMINI	BAHAMAS	25.8N 79.3W	1830 03/10
PUNTO FIJO	VENEZUELA	11.7N 70.2W	1832 03/10
SANTA CRZ D SUR	CUBA	20.7N 78.0W	1913 03/10
GOLFO VENEZUELA	VENEZUELA	11.4N 71.2W	1931 03/10
PUERTO CABEZAS	NICARAGUA	14.0N 83.4W	1944 03/10
NUEVA GERONA	CUBA	21.9N 82.8W	2029 03/10
PORLAMAR	VENEZUELA	10.9N 63.8W	2055 03/10

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  
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\* 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.

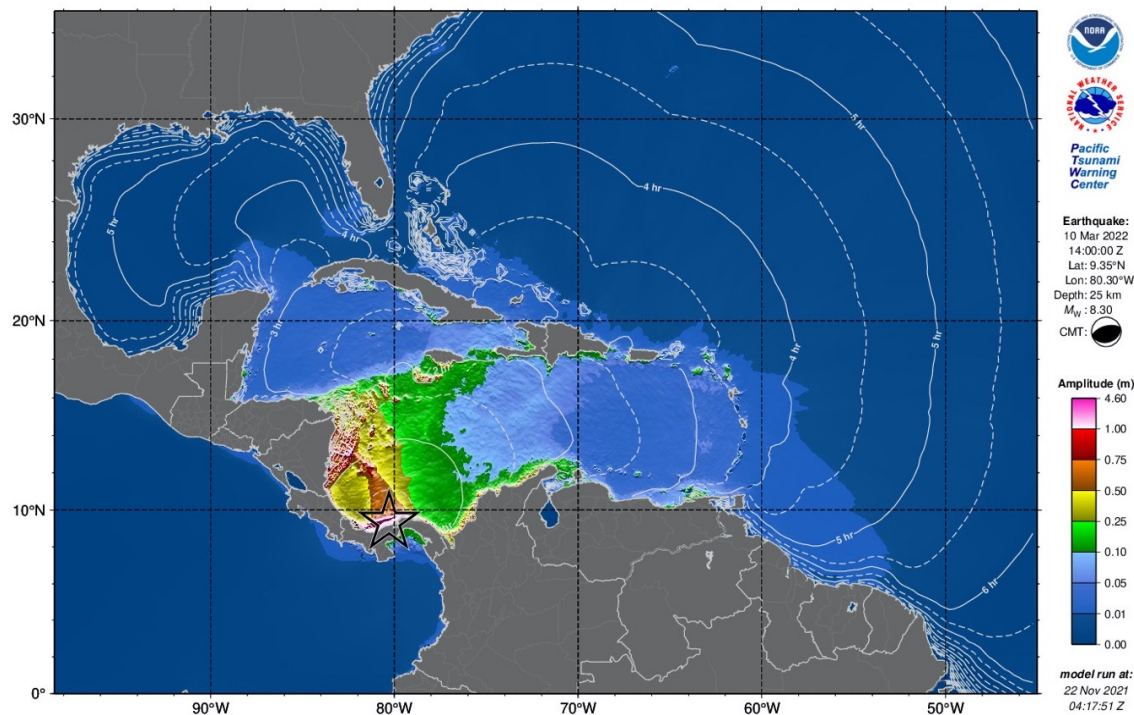
THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST  
MESSAGE.

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NNNN

# Pronóstico de Amplitud de Olas de Tsunami Norte de Panama

PTWC Energy Forecast

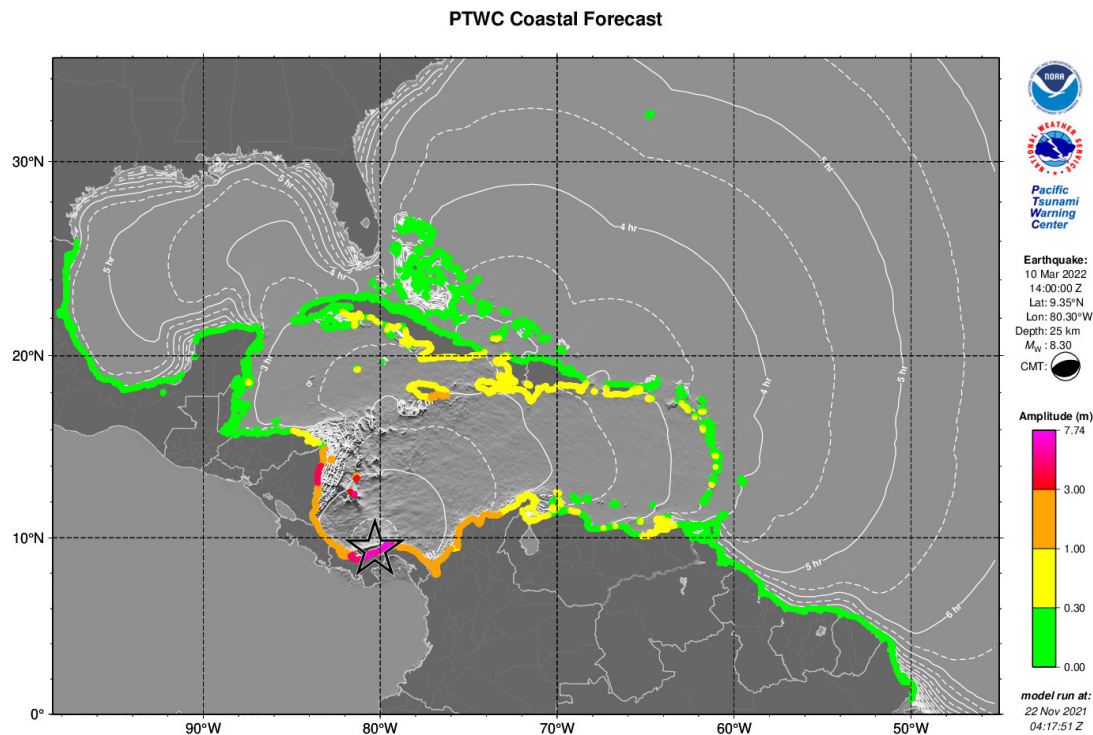


**Mapa RIFT con la amplitud máxima del tsunami basado en el escenario del Norte de Panama.**

Durante un evento real este producto sólo se pondrá a disposición de los oficialmente designados Puntos Focales de Alerta de Tsunami y Contactos Nacionales de Tsunami.



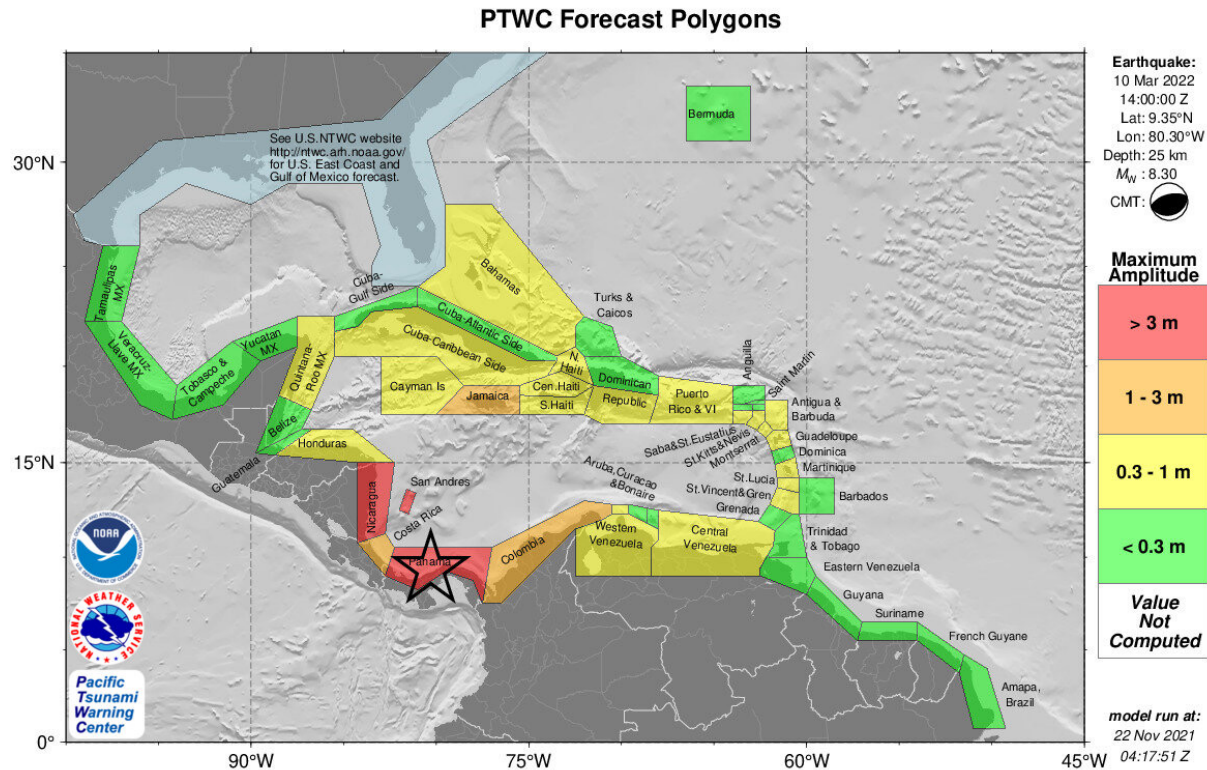
# Pronóstico de Amplitud de Olas de Tsunami Norte de Panama



**Mapa RIFT con la amplitud máxima del tsunami en la costa del Sur del Caribe basado en el escenario del Norte de Panama.**

Durante un evento real este producto sólo se pondrá a disposición de los oficialmente designados Puntos Focales de Alerta de Tsunami y Contactos Nacionales de Tsunami.

# Pronóstico de Amplitud de Olas de Tsunami Norte de Panama

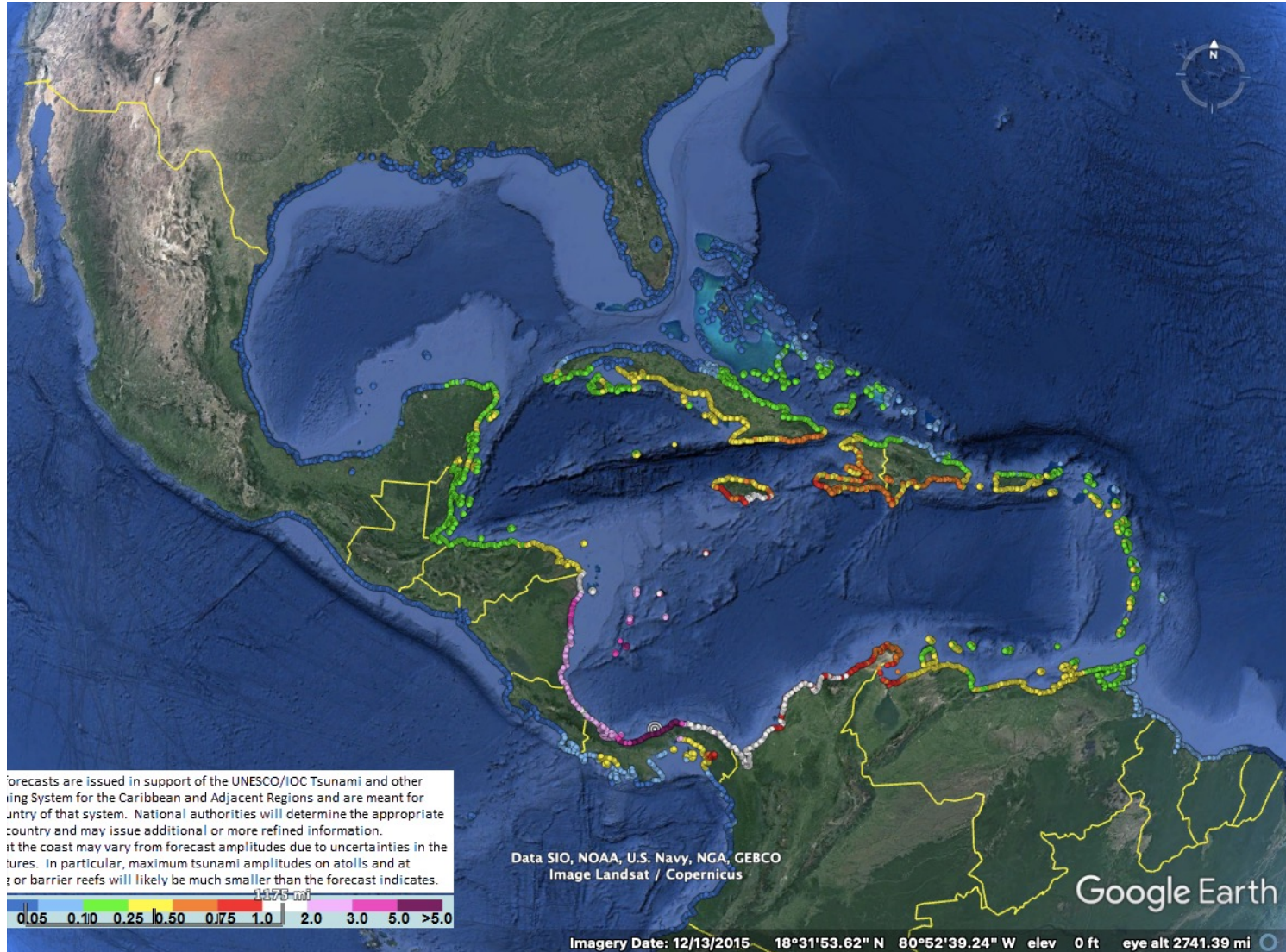


**Mapa RIFT de polígonos de pronóstico para la región del Caribe basado en el escenario del Norte de Panama.**

Durante un evento real este producto sólo se pondrá a disposición de los oficialmente designados Puntos Focales de Alerta de Tsunami y Contactos Nacionales de Tsunami.

# KMZ

## Norte de Panama





# Estadísticas de pronóstico para polígonos regionales\*

## Norte de Panama

Region_Name	Coastal Forecast (meters)				Offshore Forecast (meters)				Total Points
	Maximum	Mean	Median	STD	Maximum	Mean	Median	STD	
Caribbean_Coast_of_Panama	7.7	3.30	2.20	2.00	4.6	1.80	1.30	1.10	229
San_Andres_and_Providencia	5.3	2.90	2.80	0.82	1.8	1.00	1.10	0.33	18
Caribbean_Coast_of_Nicaragua	4.7	2.60	2.30	1.00	2.7	1.20	1.20	0.39	139
Caribbean_Coast_of_Costa_Rica	2.6	2.20	2.10	0.19	2.2	1.40	1.40	0.38	48
Caribbean_Coast_of_Colombia	1.4	0.98	1.00	0.20	1.3	0.54	0.52	0.23	315
Jamaica	1.3	0.72	0.67	0.29	0.82	0.29	0.24	0.16	146
Caribbean_Coast_of_Haiti	0.91	0.63	0.61	0.10	0.74	0.21	0.19	0.10	101
Caribbean_Coast_of_Dominican_Republic	0.83	0.56	0.58	0.11	0.51	0.23	0.22	0.10	158
Western_Coast_of_Venezuela	0.78	0.37	0.29	0.18	0.31	0.13	0.12	0.05	199
Gulf_of_Gonave_Coast_of_Haiti	0.77	0.53	0.51	0.09	0.39	0.17	0.16	0.06	155
Caribbean_Coast_of_Cuba	0.71	0.30	0.30	0.15	0.36	0.09	0.08	0.05	638
Atlantic_Coast_of_Haiti	0.46	0.27	0.26	0.10	0.20	0.09	0.09	0.03	74
Puerto_Rico_and_Virgin_Islands	0.43	0.26	0.26	0.09	0.54	0.12	0.10	0.08	224
Caribbean_Coast_of_Honduras	0.42	0.26	0.25	0.08	0.85	0.19	0.14	0.16	193
Central_Coast_of_Venezuela	0.42	0.28	0.28	0.07	0.25	0.10	0.10	0.05	399
Saint_Kitts_and_Nevis	0.39	0.27	0.27	0.05	0.22	0.11	0.10	0.05	28
Bahamas	0.36	0.05	0.03	0.05	0.33	0.02	0.01	0.03	1209
Guadeloupe	0.36	0.20	0.18	0.07	0.17	0.09	0.08	0.03	67
Cayman_Islands	0.34	0.26	0.24	0.05	0.13	0.10	0.10	0.01	11
Montserrat	0.34	0.27	0.26	0.03	0.14	0.08	0.08	0.03	11
Aruba	0.34	0.32	0.33	0.03	0.15	0.11	0.11	0.02	13
Quintana_Roo_Mexico	0.33	0.23	0.22	0.04	0.27	0.07	0.06	0.04	252
Antigua_and_Barbuda	0.32	0.17	0.13	0.09	0.32	0.13	0.11	0.08	32
Martinique	0.31	0.20	0.21	0.07	0.13	0.07	0.06	0.02	40
Saba_and_Saint_Eustatius	0.31	0.26	0.25	0.03	0.10	0.08	0.07	0.02	5
Saint_Vincent_and_the_Grenadines	0.31	0.23	0.25	0.06	0.16	0.07	0.07	0.03	25
Atlantic_Coast_of_Cuba	0.30	0.10	0.10	0.06	0.17	0.03	0.02	0.02	438
Saint_Lucia	0.30	0.19	0.21	0.06	0.17	0.07	0.06	0.03	28
Bonaire	0.30	0.24	0.23	0.02	0.20	0.10	0.09	0.04	15
Curacao	0.30	0.26	0.26	0.02	0.13	0.09	0.09	0.02	26
Grenada	0.28	0.20	0.24	0.06	0.12	0.06	0.06	0.02	28
Dominica	0.27	0.19	0.19	0.04	0.10	0.06	0.05	0.02	30
Gulf_of_Mexico_Coast_of_Cuba	0.26	0.07	0.04	0.07	0.05	0.02	0.01	0.01	137
Yucatan_Mexico	0.24	0.08	0.01	0.09	0.12	0.02	0.02	0.02	84
Belize	0.23	0.19	0.20	0.02	0.22	0.07	0.07	0.04	194
Caribbean_Coast_of_Guatemala	0.23	0.20	0.21	0.01	0.14	0.09	0.09	0.03	35
Anguilla	0.23	0.19	0.21	0.05	0.21	0.17	0.18	0.04	8
Saint_Martin	0.23	0.22	0.22	0.01	0.23	0.18	0.19	0.04	7
Sint_Maarten	0.23	0.23	0.23	0.01	0.15	0.10	0.10	0.03	5
Atlantic_Coast_of_Dominican_Republic	0.22	0.11	0.09	0.04	0.26	0.05	0.04	0.04	157
Saint_Barthelemy	0.22	0.18	0.22	0.05	0.14	0.12	0.12	0.02	6
Atlantic_Coast_of_Venezuela	0.20	0.08	0.07	0.03	0.06	0.03	0.03	0.01	121
Trinidad_and_Tobago	0.18	0.11	0.11	0.04	0.12	0.05	0.05	0.02	127
Turks_and_Caicos_Islands	0.16	0.08	0.07	0.04	0.10	0.04	0.03	0.02	119
Barbados	0.10	0.08	0.08	0.01	0.06	0.03	0.03	0.01	20
Guyana	0.07	0.06	0.06	0.00	0.05	0.02	0.02	0.01	113
Suriname	0.06	0.06	0.06	0.00	0.02	0.02	0.02	0.00	101
French_Guyane	0.04	0.03	0.03	0.00	0.01	0.01	0.01	0.00	82
Bermuda	0.04	0.04	0.04	0.00	0.03	0.02	0.02	0.00	15
Veracruz_Mexico	0.03	0.02	0.02	0.00	0.01	0.00	0.00	0.00	224
Amapa_Brazil	0.03	0.02	0.02	0.00	0.01	0.00	0.00	0.00	156
Tabasco_and_Campeche_Mexico	0.02	0.02	0.02	0.00	0.01	0.00	0.01	0.00	101
Tamaulipas_Mexico	0.02	0.02	0.02	0.00	0.01	0.01	0.01	0.00	156

\* Las amplitudes reales en la costa pueden variar de las amplitudes de pronóstico debido a las incertidumbres en el pronóstico y las características locales. En particular, las amplitudes máximas de los tsunamis en las islas pequeñas probablemente serán mucho menores de lo previsto.

**PTWC Message #8**

ZCZC  
WECA41 PHEB 102000 **WMO ID**  
TSUCAX **AWIPS ID**

TEST...TSUNAMI MESSAGE NUMBER 8...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI  
2000 UTC THU MAR 10 2022

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 8.3  
\* ORIGIN TIME 1400 UTC MAR 10 2022  
\* COORDINATES 9.4 NORTH 80.3 WEST  
\* DEPTH 25 KM / 16 MILES  
\* LOCATION PANAMA

TEST... EVALUATION ...TEST

- \* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.3 OCCURRED IN PANAMA AT 1400 UTC ON THURSDAY MARCH 10 2022.
- \* 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 OF UP TO 1 FOOT ABOVE AND BELOW THE NORMAL TIDE MAY CONTINUE OVER THE NEXT FEW 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	TIME OF MAXIMUM		WAVE		PERIOD (MIN)
	COORDINATES	MEASURE	TSUNAMI	HEIGHT	
	LAT	LONG	(UTC)		
PUERTO BILWI NI	14.0N	83.4W	1958	6.17M/20.2FT	18
PORT OF SPAIN TT	10.6N	61.5W	1859	0.18M/ 0.6FT	28
BERMUDA UK	32.4N	64.7W	1858	0.06M/ 0.2FT	22
PORT OF BELIZE BZ	17.5N	88.2W	1837	0.32M/ 1.0FT	24
TORTOLA VI UK	18.4N	64.6W	1829	0.41M/ 1.4FT	20
SCARBOROUGH TT	11.2N	60.7W	1821	0.16M/ 0.5FT	26
BARBUDA AG	17.6N	61.8W	1816	0.13M/ 0.4FT	20
PORT ST CHARLES BB	13.3N	59.6W	1804	0.13M/ 0.4FT	16
GANTERS BAY ST LUCI	14.0N	61.0W	1802	0.34M/ 1.1FT	20
PARHAM AT	17.1N	61.8W	1801	0.18M/ 0.6FT	20
BLOWING POINT AI	18.2N	63.1W	1755	0.37M/ 1.2FT	18
LE ROBERT MARTINIQU	14.7N	60.9W	1758	0.14M/ 0.5FT	18
ISLA MUJERES MX	21.3N	86.7W	1748	0.38M/ 1.2FT	24
SAINT MARTIN FR	18.1N	63.1W	1748	0.31M/ 1.0FT	18
CULEBRA IS PR	18.3N	65.3W	1750	0.44M/ 1.4FT	28
DESIRADE GUADELOUPE	16.3N	61.1W	1751	0.13M/ 0.4FT	18
PRICKLEY BAY GD	12.0N	61.8W	1750	0.39M/ 1.3FT	20
POINT A PITRE GP	16.2N	61.5W	1749	0.28M/ 0.9FT	22
CHARLOTTE-AMALIE VI	18.3N	64.9W	1745	0.36M/ 1.2FT	26
LAMESHURBAYSTJOHNVI	18.3N	64.7W	1742	0.35M/ 1.2FT	22

CALLIAQUA VC	13.1N	61.2W	1736	0.37M/	1.2FT	24
FORT DE FRANCE MQ	14.6N	61.1W	1737	0.40M/	1.3FT	28
CEIBA CABOTAGE HN	15.8N	86.8W	1739	0.23M/	0.8FT	18
ROSEAU DM	15.3N	61.4W	1731	0.37M/	1.2FT	14
LE PRECHEUR MARTINI	14.8N	61.2W	1728	0.34M/	1.1FT	18
PORTSMOUTH DM	15.6N	61.5W	1728	0.39M/	1.3FT	24
DESHAIES GUADELOUPE	16.3N	61.8W	1732	0.38M/	1.2FT	26
PORT AU PRINCE HT	18.5N	72.4W	1730	1.02M/	3.3FT	22
BASSETERRE KN	17.3N	62.7W	1727	0.36M/	1.2FT	22
CARRIE BOW CAY BZ	16.8N	88.1W	1724	0.25M/	0.8FT	26
PUERTO CORTES HN	15.8N	88.0W	1721	0.29M/	1.0FT	16
ISABELII VIEQUES PR	18.2N	65.4W	1720	0.38M/	1.2FT	22
SIAN KAN MX	19.3N	87.4W	1720	0.28M/	0.9FT	26
PUERTO MORELOS MX	20.9N	86.9W	1719	0.31M/	1.0FT	22
PUERTO MORELOS MX	20.9N	86.9W	1716	0.31M/	1.0FT	18
PUERTO MORELOS MX	20.9N	86.9W	1721	0.31M/	1.0FT	28
SAN JUAN PR	18.5N	66.1W	1720	0.14M/	0.5FT	24
ARECIBO PR	18.5N	66.7W	1715	0.15M/	0.5FT	26
PUERTO PLATA DO	19.8N	70.7W	1709	0.11M/	0.4FT	28
ESPERANZA VIEQUES P	18.1N	65.5W	1705	0.58M/	1.9FT	28
LIMETREE VI	17.7N	64.8W	1700	0.60M/	2.0FT	22
ST CROIX VI	17.7N	64.7W	1702	0.42M/	1.4FT	16
ROATAN ISLAND HN	16.3N	86.5W	1658	0.28M/	0.9FT	28
YABUCOA PR	18.1N	65.8W	1703	0.57M/	1.9FT	22
MAGUEYES ISLAND PR	18.0N	67.0W	1703	0.60M/	2.0FT	28
CAP HAITIEN HT	19.8N	72.2W	1657	0.22M/	0.7FT	16
MAYAGUEZ PR	18.2N	67.2W	1657	0.53M/	1.8FT	18
PUERTO EL BLUFF NI	12.0N	83.7W	1649	3.37M/	11.1FT	20
PUNTA CANA DO	18.5N	68.4W	1646	0.62M/	2.0FT	24
MONA ISLAND PR	18.1N	67.9W	1644	0.50M/	1.6FT	26
BARAHONA DO	18.2N	71.1W	1628	0.68M/	2.2FT	18
BULLEN BAY CURACAO	12.2N	69.0W	1631	0.39M/	1.3FT	26
GEORGE TOWN KY	19.3N	81.4W	1621	0.40M/	1.3FT	26
PORT ROYAL JM	17.9N	76.8W	1629	1.84M/	6.0FT	26
DART 42407	15.3N	68.2W	1626	0.05M/	0.2FT	20
ORANGESTAD AW	12.5N	70.0W	1625	0.54M/	1.8FT	22
CORN ISLAND NI	12.3N	83.1W	1602	3.83M/	12.6FT	22
SANTA MARTA CO	11.2N	74.2W	1536	2.01M/	6.6FT	16
SAPZURRO CO	8.7N	77.4W	1527	1.78M/	5.8FT	24
ISLA NAVAL CO	10.2N	75.8W	1524	1.48M/	4.8FT	14
BOCAS DEL TORO PA	9.4N	82.3W	1510	3.88M/	12.7FT	20
SAN ANDRES CO	12.6N	81.7W	1455	4.81M/	15.8FT	24
LIMON CR	10.0N	83.0W	1456	3.22M/	10.6FT	22
EL PORVENIR PA	9.6N	78.9W	1445	2.37M/	7.8FT	16

\*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.

\$\$

NNNN

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.

# Central American Tsunami Advisory Center CATAC



Participación en CW 2022 – productos tsunami para los países centroamericanos

## 1. Mensajes de Texto en Español

- Formato similar al PTWC
- Uso de horas locales:  
1) America Central; 2) Panama

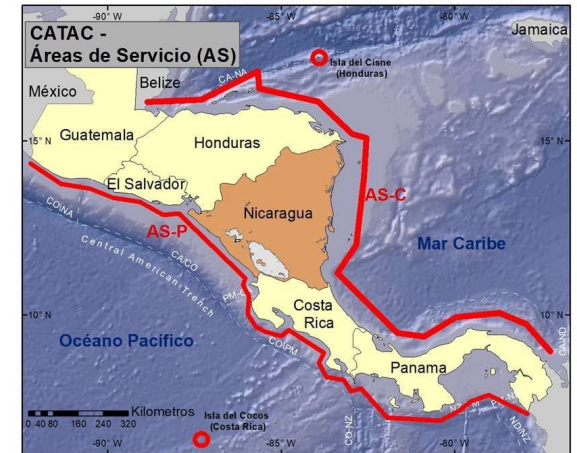
## 2. Mensajes de Texto en Ingles

- Formato PTWC
- Use de UT

## 3. Productos Gráficos (SeisComP TOAST)

- Predicción de amplitudes en Medidores de Mar
- Amplitudes en zonas costeras

## 4. Película de propagación de tsunamis (MPG3)



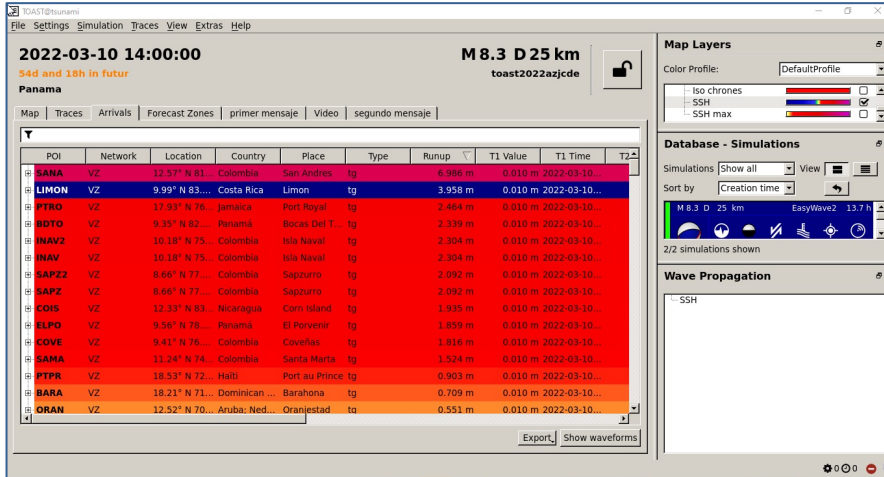
CATAC – Areas de responsabilidad



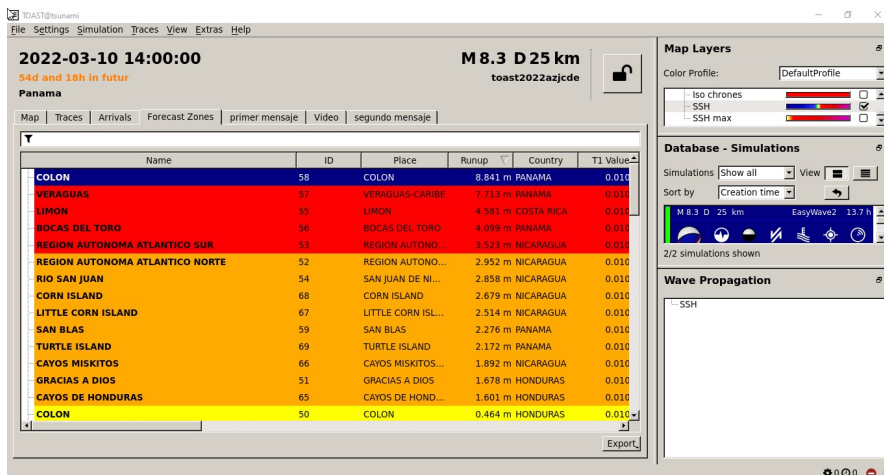
CATAC – Areas de monitoreo



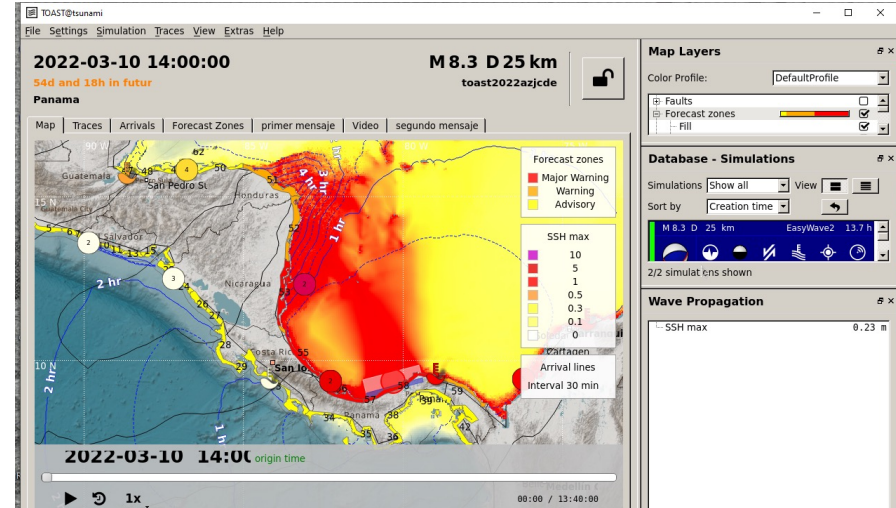
# Productos de tsunami preparados con SeisComP TOAST



Lista: Amplitudes pronosticadas en Medidores de mar



Lista: amplitudes pronosticadas en las zonas costeras



## Productos gráficos:

1. Amplitudes pronosticadas en Medidores de mar
2. Amplitudes previstas en las zonas costeras
3. Película de propagación de tsunamis



Participación en CW 2022 – productos tsunami para los países centroamericanos

## **Métodos de distribución:**

- 1. Mensajes de texto en español: email**
- 2. Mensajes de texto en inglés: WMO/GTS**
- 3. Productos gráficos: correo electrónico, WhatsApp, Telegram, página web de CATAC**

# Participación de los Estados Miembros

## Registro de *TsunamiZone*

El registro de TsunamiZone se utiliza para rastrear el número de personas y organizaciones que participan en el ejercicio.

Inicio Regiones del TsunamiZone Otros Idiomas Contactenos Busqueda Iniciar Sesión

**The TsunamiZone**

[¡Inscríbese aquí!](#) [¿Quién participará?](#) [Caribe Wave](#)

**BIENVENIDO AL TSUNAMIZONE!**

[ENGLISH](#) | [FRANÇAIS](#)

Todo el mundo debería saber cómo prepararse para un tsunami y qué hacer para estar seguro. Conocer esto es muy importante, especialmente para los que viven o trabajan cerca del océano, y también para cualquier persona que visite la costa. ¿Está usted en la zona de peligro?

[¡Inscríbese](#) y sea parte del grupo de personas y organizaciones en todas partes del mundo que hacen actividades de preparación para los tsunamis!

**¡AGÁCHESE! ¡CÚBRASE! ¡SUJÉTESE!**  
Protéjase durante el terremoto

**DIRÍJASE A TERRENO ELEVADO O TIERRA ADENTRO**  
El sismo es la principal advertencia del Tsunami

**¡PERMANEZCA EN UN LUGAR ALTO!**  
Las olas de Tsunami pueden continuar por horas

**OFICIALES EVENTOS 2022**

**10 de marzo**  
[CARIBE WAVE](#)

**21-25 de marzo**  
Semana de preparación para tsunamis en [California](#)

**5 de Noviembre**  
[Día Mundial de Concienciación sobre los Tsunamis](#)

TWFP y NTWC deben registrarse en TsunamiZone para ser parte del conteo estadístico. Independientemente de registrarse, recibirán los boletines simulados de PTWC.

# The TsunamiZone

[¡Inscríbase aquí!](#)[¿Quién participará?](#)[Caribe Wave](#)

 ¡BIENVENIDO AL TSUNAMIZONE!

[ENGLISH](#) | [FRANÇAIS](#)

Todo el mundo debería saber cómo prepararse para un tsunami y qué hacer para estar seguro. Conocer esto es muy importante, especialmente para los que viven o trabajan cerca del océano, y también para cualquier persona que visite la costa. ¿Está usted en la zona de peligro?

¡[Inscríbase](#) y sea parte del grupo de personas y organizaciones en todas partes del mundo que hacen actividades de preparación para los tsunamis!



## OFICIALES EVENTOS 2022

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

Los países pueden llevar un registro de los participantes haciendo clic en  
«¿Quién participará?»





## TOTALES DE PARTICIPACIÓN

**45** participantes están inscritos para participar en los simulacros de TsunamiZone 2022 (hasta 12.01.2022 11:35 AM PST).

Categoría	Participantes	Participantes por área	Total
<a href="#">Individuos/Familias</a>	8	<a href="#">Anguilla</a>	0
<a href="#">Cuido de niños y Pre-escolares</a>	0	<a href="#">Antigua and Barbuda</a>	0
<a href="#">Escuelas K-12</a>	0	<a href="#">Aruba</a>	0
<a href="#">Universidades/colegios comunitarios</a>	0	<a href="#">Bahamas</a>	0
<a href="#">Grupos Originarios/Tradicionales</a>	0	<a href="#">Barbados</a>	0
<a href="#">Gobierno Federal/Nacional (Incluyendo Militar)</a>	0	<a href="#">Belize</a>	0
<a href="#">Gobierno Estatal</a>	0	<a href="#">Bermuda</a>	0
<a href="#">Gobierno Municipal</a>	0	<a href="#">Bonaire</a>	0
<a href="#">Grupos Comunitarios/Urbanizaciones</a>	0	<a href="#">Brazil</a>	0
<a href="#">Negocios</a>	0	<a href="#">British Virgin Islands</a>	0
<a href="#">Centros de Salud/Hospitales</a>	0	<a href="#">Cayman Islands</a>	0
<a href="#">Centros Geriátricos/Comunidad de Personas de Edad Avanzada</a>	0	<a href="#">Colombia</a>	0
<a href="#">Agencias de atención a personas con discapacidad</a>	0	<a href="#">Costa Rica</a>	0
<a href="#">Organizaciones sin Fines de Lucro</a>	0	<a href="#">Cuba</a>	0
<a href="#">Organizaciones de Preparación y Respuesta</a>	37	<a href="#">Curacao</a>	0
<a href="#">Iglesias/instituciones denominacionales</a>	0	<a href="#">Dominica</a>	0
<a href="#">Museos, Bibliotecas, Parques, etc.</a>	0	<a href="#">Dominican Republic</a>	0
<a href="#">Clubes de voluntarios/servicio</a>	0	<a href="#">France</a>	0
<a href="#">Organizaciones para la Juventud</a>	0	<a href="#">Grenada</a>	0
<a href="#">Albergues para animales/veterinarios</a>	0		
<a href="#">Sector Agrícola</a>	0		
<a href="#">Radioaficionados</a>	0		
<a href="#">Organizaciones de Ciencia e Ingeniería</a>	0		
<a href="#">Radio/televisión/prensa/internet</a>	0		
<a href="#">Otro</a>	0		

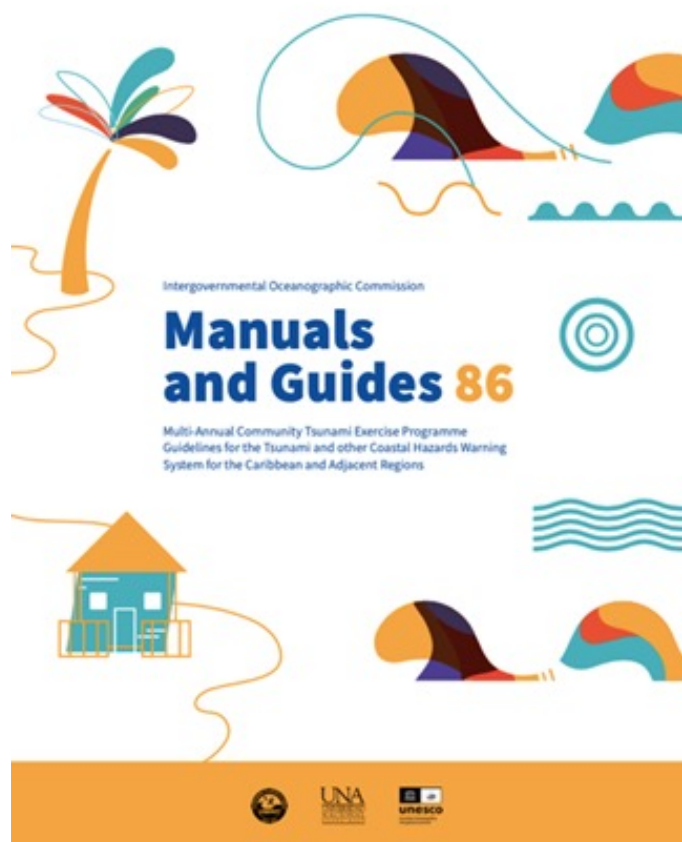
Desde el 12 de enero de 2022, 45 participantes se han registrado en el sitio web.

Representante de TsunamiZone:  
Jason Ballmann

# Recursos

- **NUEVO:** Manual y guías 86: Programa multianual de ejercicios comunitarios sobre tsunamis directrices para el sistema de alerta de tsunamis y otros peligros costeros para el Caribe y las regiones adyacentes. (Inglés) <https://www.weather.gov/ctwp/caribewave22>
- **NUEVO:** Productos y escenarios mejorados del PTWC para el Caribe y el Pacífico, Inglés
- Manuales IOC “[How to plan, conduct and evaluate tsunami exercises](#)” y “[Module on Tsunami Exercise](#)” son recursos útiles. (Inglés y Español).
- Manuales CARIBE WAVE 2011 hasta 2022 - <https://www.weather.gov/ctwp/caribewave22>
- Informe Final CARIBE WAVE 2013 hasta 2021 - <https://www.weather.gov/ctwp/caribewave22>
- Plan de Comunicaciones de PTWC para el Caribe - <https://www.weather.gov/ctwp/caribewave22>
- Preguntas sobre el ejercicio pueden ser dirigidas a los miembros del Equipo de Trabajo CARIBE WAVE 22.

# Manual y guías 86: Programa multianual de ejercicios comunitarios sobre tsunamis directrices para el sistema de alerta de tsunamis y otros peligros costeros para el Caribe y las regiones adyacentes.



- Se recomienda esta guía para que los Estados miembros consideren los ejercicios CARIBE WAVE.
- Proporciona a los líderes de la comunidad para realizar y evaluar un ejercicio de evacuación de tsunami con una metodología y herramientas.
- Es particularmente relevante para los organismos que estarían directamente expuestos a los efectos de un tsunami, como el gobierno local, las escuelas, las asociaciones y las empresas.
- Esta guía tiene como objetivo fomentar una cultura compartida de ejercicios a desarrollar entre las autoridades municipales encargadas de garantizar la seguridad de quienes viven en su área y los líderes comunitarios, actores de la vida social y económica del área.
- Disponible en <https://www.weather.gov/ctwp/caribewave22>



# Consideraciones COVID 19

- Tenga en cuenta que el distanciamiento social / físico y la medida de cuarentena / encierro aún pueden estar vigentes
- Se alienta a los EM a considerar eventos o actividades virtuales / en línea para involucrar al público
- No es necesario que la participación del público sea una caminata completa contra el tsunami, anime a las personas a que revisen su plan de emergencia / ruta / suministros para el tsunami y se registren en [tsunamizone.org](http://tsunamizone.org)
- Tenga en cuenta la guía de CARIBE EWS COVID-19 para tsunamis: <http://www.ioc-tsunami.org/index.php?>

UNESCO/IOC

ICG/CARIBE EWS

Servicios de tsunami y evacuación / refugio considerando prácticas de distanciamiento físico

#### Contexto

La actual respuesta de COVID-19 ha requerido cambios en las cargas de trabajo, lugares de trabajo, así como prácticas de distanciamiento físico en todo el mundo. Esto puede crear ambigüedad o confusión con respecto a los servicios de alerta y las acciones de respuesta a los tsunamis, como la evacuación, y la implementación de planes de respuesta nacionales. En este documento se aclara la situación de los servicios regionales de alerta contra los tsunamis, y se sugieren las mejores prácticas para las acciones locales y nacionales.

#### Servicios Regionales de tsunami

El Centro de Alerta de Tsunamis del Pacífico, en calidad de Proveedor de Servicios de Tsunami (TSP) del CARIBE de la UNESCO, sigue funcionando 24 horas al día, 7 días a la semana para prestar servicios de tsunami al Caribe y regiones adyacentes, según la [Guía de Usuarios del CARIBE EWS](#).

En caso de que las operaciones se vieran afectadas, se emitirá una comunicación a sus partes interesadas, incluidos los puntos focales de alerta contra los tsunamis del CARIBE-EWS (TWFP) y los Centros Nacionales de Alerta de Tsunamis (NTWC). En tales circunstancias, se establecerán, en la medida de lo posible, acuerdos alternativos para los servicios de alerta regionales.

También se mantiene la coordinación con el Programa de Alerta contra los Tsunamis en el Caribe (CTWP), el Centro de Información sobre Tsunamis del Caribe (CTIC) y el Centro de Asesoramiento sobre Tsunamis de América Central (CATAC).

Es importante reiterar que cada país es el único responsable de la seguridad de su propia población frente a los peligros de los tsunamis. El NTWC o el Organismo de Gestión de Emergencias (EMA) del país es la autoridad encargada de emitir una alerta de tsunami para cualquiera o todas sus costas, ya que la información del TSP del CARIBE EWS es sólo de carácter consultivo.

También es importante recordar que en el caso de los tsunamis locales, las señales de advertencia de tsunamis naturales deben ser el detonante de una auto-evacuación inmediata. Las personas que se encuentran a lo largo de las áreas costeras bajas deben auto-evacuarse y no esperar a que su Centro Nacional de Alerta de Tsunamis emita una alerta de tsunami.

#### Servicios nacionales y locales de tsunami y mejores prácticas de evacuación/refugio durante COVID-19

1. Disposiciones 24/7 de los organismos nacionales para proporcionar alertas oportunas a las autoridades locales y nacionales, a los medios de comunicación y al público, cuando se requiera su actuación.
2. Cuando el Centro Nacional de Alerta de Tsunami y/o el Organismo de Gestión de Emergencias emiten una alerta de tsunami, la acción deseada por el público es evacuar de los lugares de riesgo.
3. El público debe seguir utilizando las señales de advertencia naturales de tsunamis como pistas de respuesta, es decir, si las personas están cerca de la costa y experimentan cualquiera de las

# Información Adicional

- Materiales adicionales serán colocados en las páginas de ITIC-CAR ([www.caribewave.org](http://www.caribewave.org)).
- Enviar enlaces de paginas nacionales a [christa.vonh@noaa.gov](mailto:christa.vonh@noaa.gov) para incluir en la página del ITIC-CAR.
- Esta presentación está disponible en la pagina del ITIC-CAR (<https://www.weather.gov/ctwp/caribewave22>).
- Se recomienda el uso de los hashtags #CARIBEWAVE y #TSUNAMIREADY antes y durante el ejercicio.
- Video CARIBE WAVE (disponible a finales de febrero)

#CARIBEWAVE  
#TSUNAMIREADY

# CARIBE WAVE 22 Equipo de Trabajo

Persona	Teléfono #	Correo electrónico
Elizabeth Vanacore, PRSN <b>CARIBE WAVE Chair</b>	1-787-833-8433	elizabeth.vanacore@upr.edu
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Nicolas Arcos <b>Chair WG 2 Hazard Assessment</b>	1-303-497-3158	nicolas.arcos@noaa.gov
Emilio Talavera <b>Chair WG 3 Tsunami Related Services</b>	505-224-92761 ext. 102	emilio.talavera@gf.ineter.gob.ni
Christa von Hillebrandt-Andrade <b>Chair WG 4 Preparedness, Readiness and Resilience Deputy Director ITIC-CAR</b>	1-787-249-8307	christa.vonh@noaa.gov
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David Wald, USGS <b>Scientific Expert – Earthquake Impact Products</b>	1-303-273-8441	wald@usgs.gov
Alison Brome <b>Director CTIC</b>	246-243-7626	a.brome@unesco.org

# Cronología

ACCIÓN	Cronología
<b>Borrador del Manual Circulado entre ICG CARIBE EWS TNC/TWFP y TT CARIBE WAVE 2022</b>	✓Diciembre 2021
<b>Fecha límite para comentarios</b>	✓Diciembre 2021
<b>Carta Circular Emitida por el IOC a los MS</b>	✓Enero 2022
<b>Manual de Ejercicios Disponible en Línea</b>	✓Enero 2022
<b>1<sup>er</sup> Seminario en línea de CW</b> (Vista general, Productos PTWC, Registro)	✓18 de enero 2022 - Inglés ✓19 de enero de 2022 - Español 20 de enero 2022 – Francés
<b>2<sup>do</sup> Seminario en línea de CW</b> (Actualización, Métodos de Comunicación, Registración, Cuestionario CW, Carga de Fotos/Videos)	15 de febrero de 2021 - Inglés 16 de febrero de 2021 - Español 17 de febrero de 2021 – Francés
<b>Los Países Indican el Escenario Seleccionado</b>	25 Febrero 2022
<b>Ejercicio</b>	10 Marzo 2022
<b>Plazo para Evaluación del Ejercicio</b>	31 Marzo 2022
<b>Reporte Final Caribe Wave 22</b> <b>13 Abril 2022</b>	

# Segundo Seminario

- El segundo seminario en inglés se llevará a cabo el 15 de febrero de 2022.
- Se enfatizará lo siguiente:
  - Actualizaciones de ejercicios
  - Métodos de comunicación
  - Registro
  - Cuestionario posterior al ejercicio
  - Medios (carga de imágenes/videos)
- Para registrarse, visite <https://www.weather.gov/ctwp/caribewave22>

# Preguntas, Comentarios

¡Gracias por su participación!

elizabeth.vanacore@upr.edu

christa.vonh@noaa.gov