



# CARIBE WAVE 16

## Webinaire

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**21 janvier 2016**

## CADRE INSTITUTIONNEL DE RÉFÉRENCE POUR L'EXERCISE

**UNESCO:** l'Organisation des Nations unies pour l'éducation, la science et la culture

**ICG/CARIBE EWS:** Le Groupe intergouvernemental de coordination du Système d'alerte aux tsunamis et autres menaces côtières dans les Caraïbes et régions adjacentes

**CTIC:** Centre d'information de Tsunami des Caraïbes ; Gouvernement de Barbados-UNESCO / IOC Association

**NOAA:** l'Administration National d'océanique et d'atmosphérique, U.S. Département de Commerce

**CEPREDENAC:** Le Centre de coordination pour la prévention des catastrophes naturelles en Amérique centrale

**CDEMA:** l'Agence de gestion des urgences en cas de catastrophe des Caraïbes

**EMIZ Antilles:** Etat-major interministériel de zone Antilles

**TWC:** Centre d'alerte aux Tsunamis

**CTWP:** Le Programme d'alerte aux Tsunamis pour les Caraïbes

# CARIBE WAVE/LANTEX 2015

- 31 pays et 17 territoires dans les Caraïbes et régions adjacentes ont participé à cet exercice avec un total de près de 191,420 personnes se sont enregistrés.
  - Cela a représenté une taux du participation de un 100% (98% de plus qu'en 2014, 94% dans 2013, 75% dans 2011) de tous les pays et territoires de la région CARIBE EWS.

Antigua et Barbuda, Aruba, Bahamas, Barbados, Belize, Brésil (observateur), Canada, Colombia, Costa Rica, Cuba, Dominica, República Dominicaine, Francia (Martinique, Guadalupe, Guyana, San Bartolomé, San Martín), Guyana Francais, Granada, Guatemala, Guyana, Haïti, Honduras, Jamaïque, Mexico, Hollande (Bonaire, Curaçao, Saba y San Eustacio), Nicaragua, Panamá, San Cristobal y Nevis, Santa Lucia, San Vicente y las Grenadines, San Maarten, Suriname, Trinidad y Tobago, Reino Unido (Anguila, Islas Vírgenes Británicas, Bermuda, Islas Caimán, y Turks y Caicos), Estados Unidos (Puerto Rico y las Islas Vírgenes Americanas) y Venezuela (República Bolivarién).

# Commentaires de l'exercice CARIBE WAVE/LANTEX 2015

- 79% des Points Focaux d'alerta aux Tsunamis ont reçus dans les délais le message «dummy» envoyé par les centres d'alerte aux tsunamis (TWC).
- 46% des répondants du sondage ont indiqué que l'exercice avait une couverture médiatique.
- 88% des TWFP/NDMO ont indiqués qu'ils avaient en place une activation et processus de réponse (procédures opérationnelles standard) pour la réception des alertes aux tsunamis.
- Plan d'intervention d'urgence contre les tsunamis:
  - 62% des pays et territoires participants ont un plan de réponse aux tsunamis locaux
  - 68% des pays et territoires participants ont un plan de réponse aux tsunamis régionaux
  - 73% des pays et territoires participants ont un plan de réponse aux tsunamis distants
- 17 États membres ou leurs territoires ont indiqués que leurs cartes d'inondation de tsunami étaient disponibles pour les zones évacuées.
- 34% (contre 22% en 2014) des TWFP / NDMO ont indiqués d' avoir eu en disponibilité des plans d'évacuation tsunami pour la population exposée sur le littoral.

# Raisons pour la conduite de l'exercice

L'exercice est **utile pour valider ou mettre en évidence la nécessité d'une planification contre les tsunamis.**

- Il est absolument nécessaire de **renforcer la préparation, les plans d'évacuation et l'implication** du secteur privé dans la préparation face aux tsunamis. Le fait que **la population et la presse** soient tant intéressés et sensible sur ces sujets est important.



# Autres raisons pour la conduite de l'exercice

- Chaque année depuis les exercices Lantex de 09, 10, 11, 12, 13, 14 y 15 et CARIBE WAVE 11, 13, 14 and 15, le taux de participation a augmenté et il existe une plus grande sensibilisation.
- Le nombre d'impact des évènements récents: Haiti, Chili et Japon.
- Vulnérabilité aux tsunamis dans notre région.
- Opportunités de coopérer avec d'autres organisations.
- Importance de tester et d'affiner les systèmes d'alerte et de protocoles nationaux.

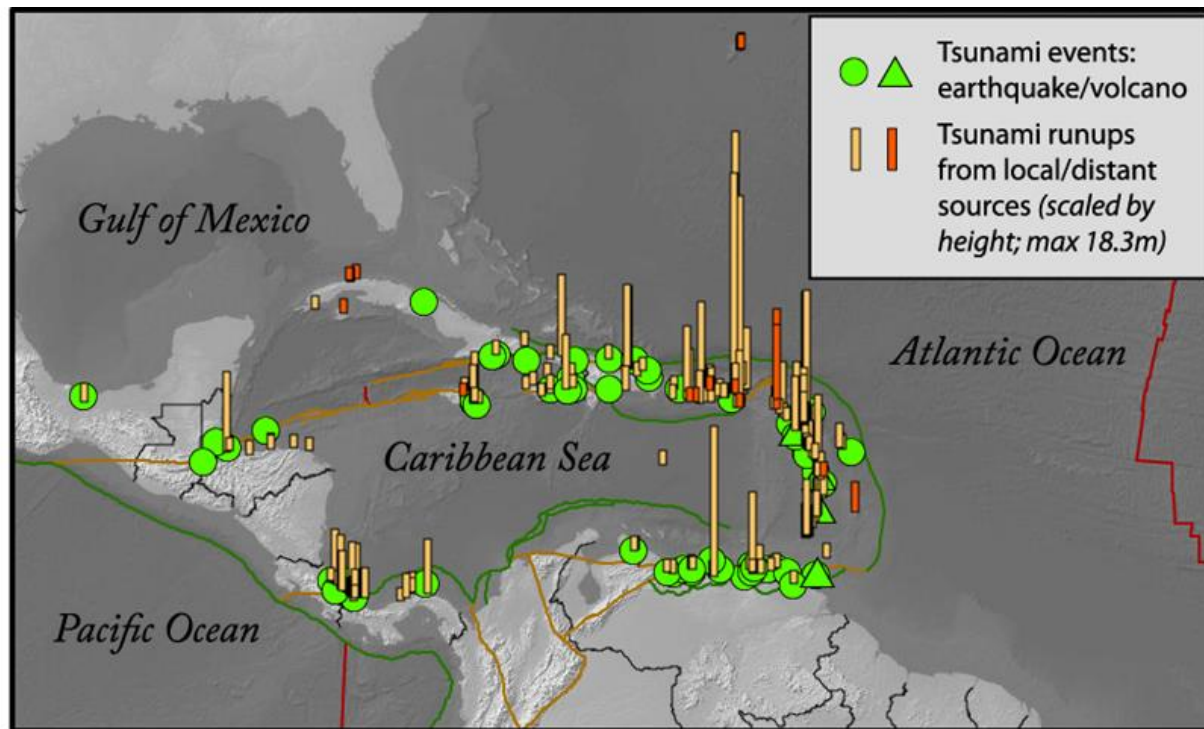


[http://1.bp.blogspot.com/-BU3-wRZEI7s/VVFmJ\\_TXx/AAAAAAAAABak/wF6PQ9ixZs/s1600/na\\_color\\_Haiti\\_Earthquake3\\_1960.jpg](http://1.bp.blogspot.com/-BU3-wRZEI7s/VVFmJ_TXx/AAAAAAAAABak/wF6PQ9ixZs/s1600/na_color_Haiti_Earthquake3_1960.jpg)



<http://www.brecorder.com/images/2015/09/chile-earthquake-000-mvd6714331.jpg>

Selon la base de données historique sur les tsunamis, au cours des 500 dernières années, au moins 75 tsunamis ont été observés dans la région, et même s'ils ne se sont pas produits aussi souvent que dans les autres bassins, la vulnérabilité est très grande; plus de 500,000 personnes pourraient être tuées en quelques heures si la réponse n'est pas adéquate.



Carte des vagues de Tsunami dans les Cariibes en 1493-2013 (National Centers for Environmental Information, <http://www.ngdc.noaa.gov/hazards/tsu.shtml>). Artiste : Jessee Varner ; initialement publié dans von Hillebrandt-Andrade, 2013.

<b>Country</b>	<b>Number of Registrants</b>	<b>Number of Participants according to Registration (closed March 20, 2015)</b>	<b>Number of Participants , with post exercise updates from Member States</b>
Anguilla	5	5	1150
Dominican Republic	13	43	43
France	13	99	99
French Guiana	1	10	10
Grenada	4	9	9
Guadeloupe	24	408	3000
Guatemala	2	12	12
Guyana	2	12	12
Haiti	17	22	44
Honduras	1	1	1
Jamaica	2	2	2
Martinique	64	8,637	8637
Mexico	5	28	500
Montserrat	1	1	1
Nicaragua	4	28	100
Panama	20	63	600
Puerto Rico	500	80,953	80,953
Sint Maarten	2	2	25
Suriname	0	0	1
Trinidad and Tobago	4	104	30,104
Turks and Caicos	9	30	25
United States of America	144	23,344	23,344
U.S. Virgin Islands	30	4,793	4793
Venezuela	98	10,689	31,685
<b>TOTAL</b>			<b>191,420</b>



**CARIBE WAVE 16**

# Objectifs

## **1. Exercer et évaluer les opérations de l'actuel Système d'alerte aux tsunamis de la région CARIBE-EWS.**

- A. Validez l'**émission** des produits de tsunami de la PTWC.
- B. Valider la **réception** et la diffusion des produits de tsunami par les points focaux d'alerte aux tsunamis du CARIBE EWS (TWFP) et/ou le Centre Nationale d'alerte aux Tsunamis (NTWC).

## **2. Poursuivre le processus d'exposition au PTWC des produits améliorés du CARIBE-EWS.**

- A. Évaluer les produits améliorés de la PTWC.
- B. Indicateur plus sur les procédures pour l'application de produits améliorés.

## **3. Valider la préparation pour répondre à un tsunami.**

- A. Valider la capacité opérationnelle des points focaux d'alerte aux tsunamis (TWFP, ou fonction similaire) et/ou le Bureau national de gestion des catastrophes (NDMO).
- B. Améliorer l'état de préparation opérationnelle. Avant l'exercice, faire en sorte que les outils appropriés et le(s) plan(s) de réponse ont été développé(s), y compris les matériaux d'éducation du public
- C. Valider que la diffusion des alertes et des informations / conseils à travers les points focaux d'alerte aux tsunamis pour les organismes appropriés dans les pays participants et pour le public soit exacte et en temps opportun.
- D. Valider le processus décisionnel de l'organisation (plans d'intervention de tsunami) sur les avertissements publics et les évacuations.
- E. Valider que les méthodes utilisées pour informer et instruire le public soient exacts et en temps opportun.
- F. Évaluer l'état de la conscience publique nationale et la stratégie de l'éducation.

# Objectifs

Objectifs	Résultat 2013	Métrique 2014	Résultat 2015	Métrique 2015	Résultat 2015	Métrique 2016
Participation des états membres du ICG CARIBE EWS avec des points focaux d'alerte aux tsunamis	94%	95%	98% (compris les deux MS/Territoires non officiels)	95%	100%	100%
Respect de la chronologie	près 100%	100%	près 100%	100%	près 100%	100%
Participation de la communauté (au-delà de TWFP)	75%	75%	75%	80%	66%	85%
Nombre du participants	44,000	+10%	191,000	+10%	191,420	+10%
TWP reçoit le message fictif	98%	100%	94%	100%	90%	100%
Pays soumettant le questionnaire sur l'exercice.	90%	100%	100%	100%	91%	100%

# Manuel de l'Exercice

- Disponible en ligne en anglais sur le lien suivant:  
[www.caribewave.info](http://www.caribewave.info)
- Ils comprennent:
  - Les mesures proposées
  - Description du scénario
  - La table de temps
  - Temps de trajet et l'amplitude attendue des vagues
  - Chiffres et exemples des messages à être transmis durant un tel événement
  - Le lien de questionnaire d'évaluation

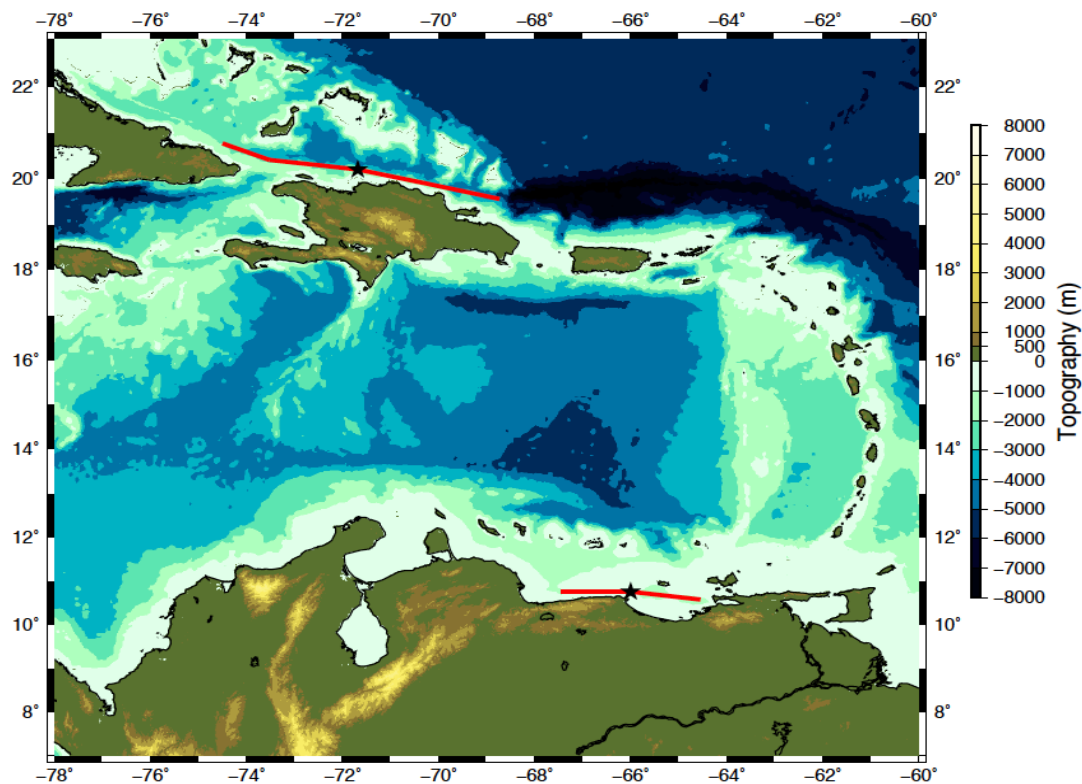
# CARIBE WAVE 16

## Scène du Séisme et Tsunami

- Cet exercice fournira une simulation de messages de menace de tsunami du PTWC, activé deux cas hypothétiques des tremblements de terre.
  - Le scénario Venezuela magnitude 8.4 a été modifié avec les hypothèses de l'événement réel séisme et tsunami du 29 octobre 1900.
    - La hauteur maximum de vague résultant de ce tsunami a été enregistrée à 10 mètres.
  - Le scénario au Nord d'Hispaniola magnitude 8.7 a été modifié avec les hypothèses de l'événement réel séisme et tsunami du 7 mai 1842.
- Tremblements de terre dans les deux scénarios produira une alerte rouge pour Hispaniola, Turks et Caicos et le sud-est de Cuba pour le scénario de nord de Hispaniola; et la côte du Venezuela pour le scénario du Venezuela.

# CARIBE WAVE 16

## Carte le Scènes

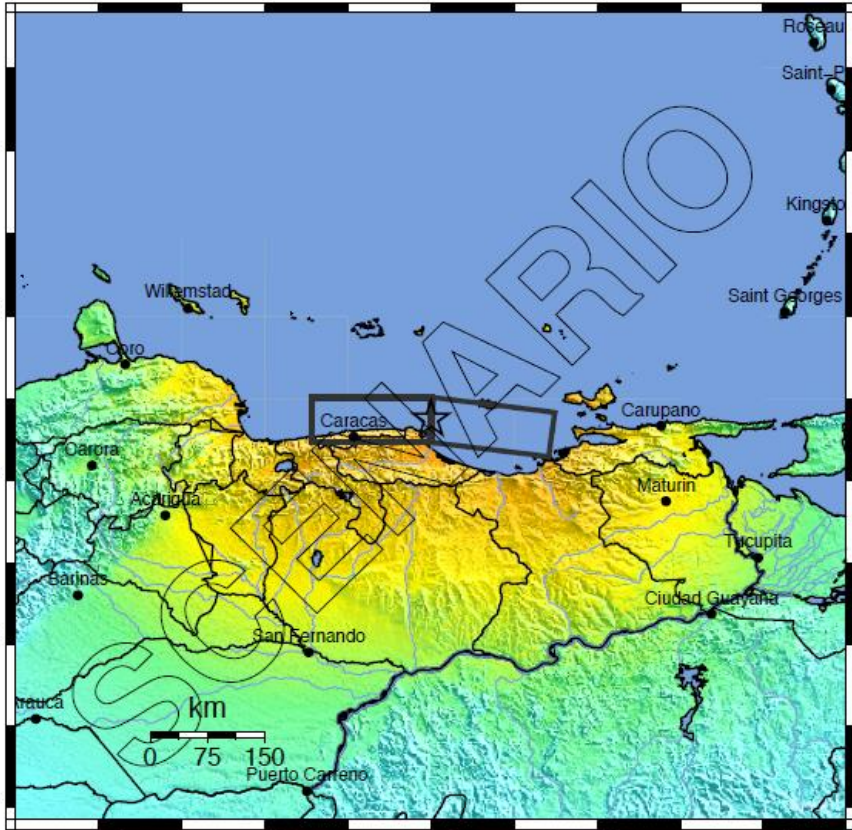


Scène	Temps d'origine	Mw	Épicentre
Venezuela	14:00:00 UTC 17 mars 2016	8.4	10.8°N, 66.0°O
Nord d'Hispaniola	15:00:00 UTC 17 mars 2016	8.7	20.2°N, 71.7°O

# Impact du Scénario Séisme Venezuela

— Earthquake Planning Scenario —  
ShakeMap for Venezuela Scenario

Scenario Date: Mar 17, 2016 02:00:00 PM UTC M 8.4 N10.75 W66.00 Depth: 20.0km



PLANNING SCENARIO ONLY — Map Version 1 Processed 2015-08-25 08:19:16 PM UTC

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heavy	Very Heavy
PEAK ACC. (%g)	<0.05	0.3	2.8	6.2	12	22	40	75	>139
PEAK VEL. (cm/s)	<0.02	0.1	1.4	4.7	9.6	20	41	86	>178
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based upon Worden et al. (2012)



Earthquake Shaking **Red Alert**

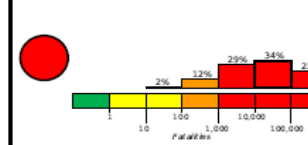


## M 8.4, Venezuela

Origin Time: Thu 2016-03-17 14:00:00 UTC (09:30:00 local)  
Location: 10.75°N 66.00°W Depth: 20 km  
FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](http://tsunami.gov)

Created: 25 minutes, 0 seconds after earthquake

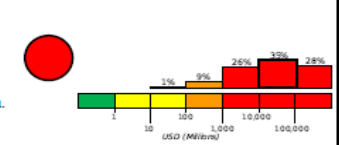
### Estimated Fatalities



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

Estimated economic losses are 3-20% GDP of Bolivarian Republic of Venezuela.

### Estimated Economic Losses

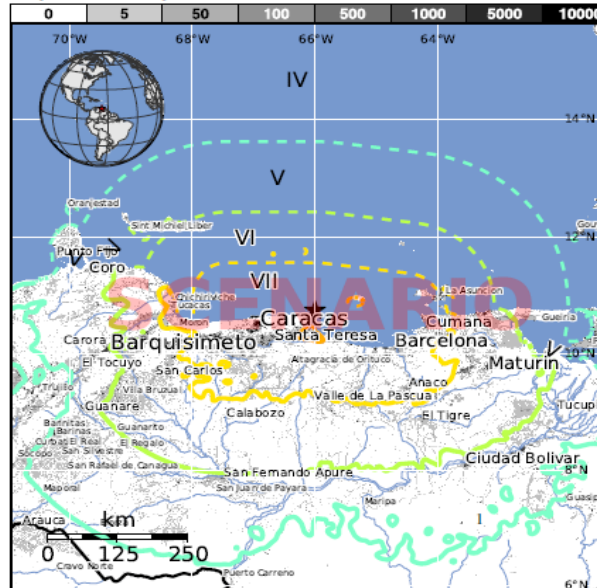


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--	--	2,141k	6,296k	4,893k	11,690k	478k	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	Moderate/Heavy
	Vulnerable Structures		none	none	Light	Moderate	Moderate/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 vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unreinforced brick masonry and adobe construction.

### Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max Shaking MMI(#)	Deaths
1983-04-11	359	6.1	VIII(2k)	0
1974-06-12	281	6.5	IX(12k)	5
1997-07-09	271	6.9	VIII(2k)	81

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

### Selected City Exposure

from GeoNames.org

MMI City	Population
VIII Puerto La Cruz	370k
VIII Guanta	<1k
VIII Lecherías	<1k
VIII Rio Chico	<1k
VIII San Jose de B.	<1k
VIII Boca de Uchire	<1k
VII Barcelona	425k
VII Caracas	3,000k
VII Maracay	1,754k
VII Valencia	1,385k
VI Barquisimeto	809k

bold cities appear on map (k = x1000)

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.

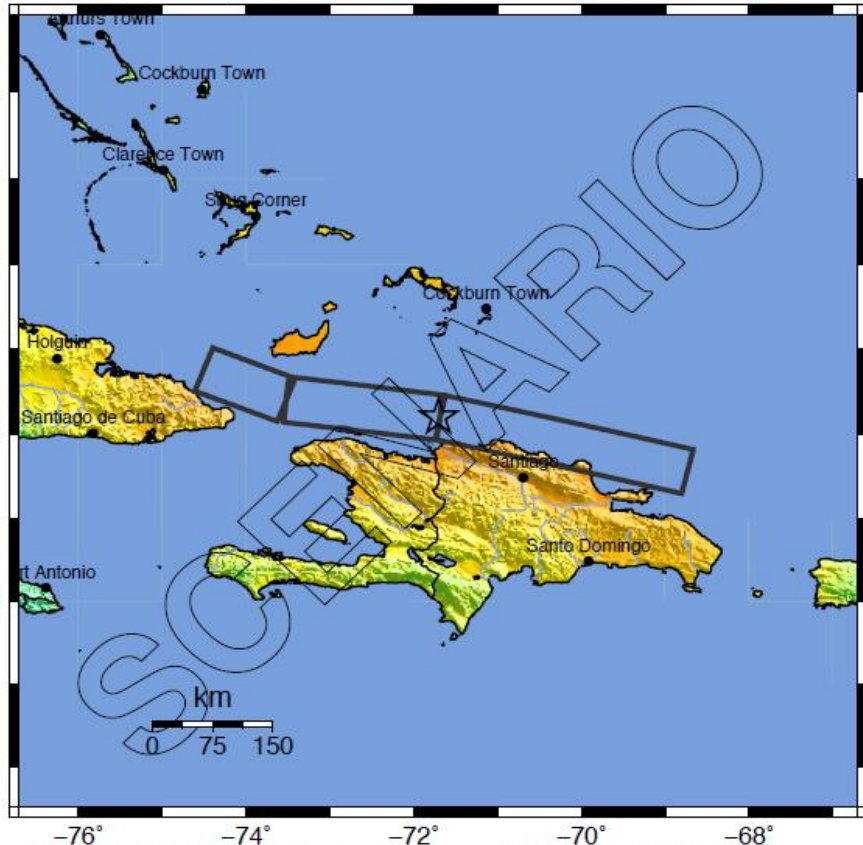
<http://earthquake.usgs.gov/pager>

Event ID: usvenezuela\_2

# Impact du Scénario Séisme Nord d'Hispaniola

--- Earthquake Planning Scenario ---  
ShakeMap for Hispaniola Scenario

Scenario Date: Mar 17, 2016 03:00:00 PM UTC M 8.7 N20.20 W71.70 Depth: 15.0km



PLANNING SCENARIO ONLY --- Map Version 1 Processed 2015-08-25 08:18:37 PM UTC

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	<0.05	0.3	2.8	6.2	12	22	40	75	>139
PEAK VEL.(cm/s)	<0.02	0.1	1.4	4.7	9.6	20	41	86	>178
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based upon Worden et al. (2012)



## M 8.7, Northern Hispaniola

Origin Time: Thu 2016-03-17 15:00:00 UTC (10:00:00 local)

Location: 20.20°N 71.70°W Depth: 15 km

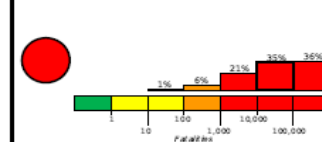
FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](#)



PAGER  
Version 1

Created: 22 minutes, 0 seconds after earthquake

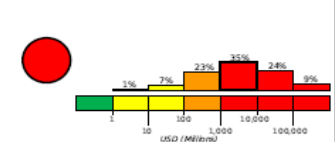
### Estimated Fatalities



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

Estimated economic losses are 3-20% GDP of Dominican Republic.

### Estimated Economic Losses

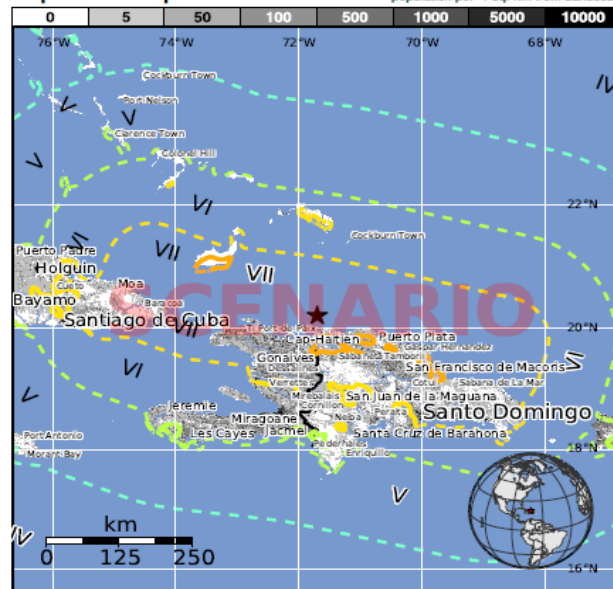


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--	--	5k*	710k*	9,934k*	13,629k	641k	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	Vulnerable Structures: none	none	V. Light	Light	Moderate	Moderate/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 vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are concrete/cinder block masonry and mud wall construction.

### Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max Shaking (MMI#)	Deaths
1994-07-12	90	5.6	VIII(6k)	0
1984-06-24	353	5.2	V(440k)	5
1984-06-24	347	6.7	VIII(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
VIII CastanueLAS	4K
VIII Caracol	2K
VIII Arroyo Salado	2K
VIII Ferrier	4K
VIII Agua Santa del Yuna	2K
VIII Jaibon	5K
VII Santiago de los C.	1,200K
VII Santo Domingo	2,202K
VII Santiago de Cuba	556K
VI Holguin	319K
VI Port-au-Prince	1,235K

bold cities appear on map (k = x1000)

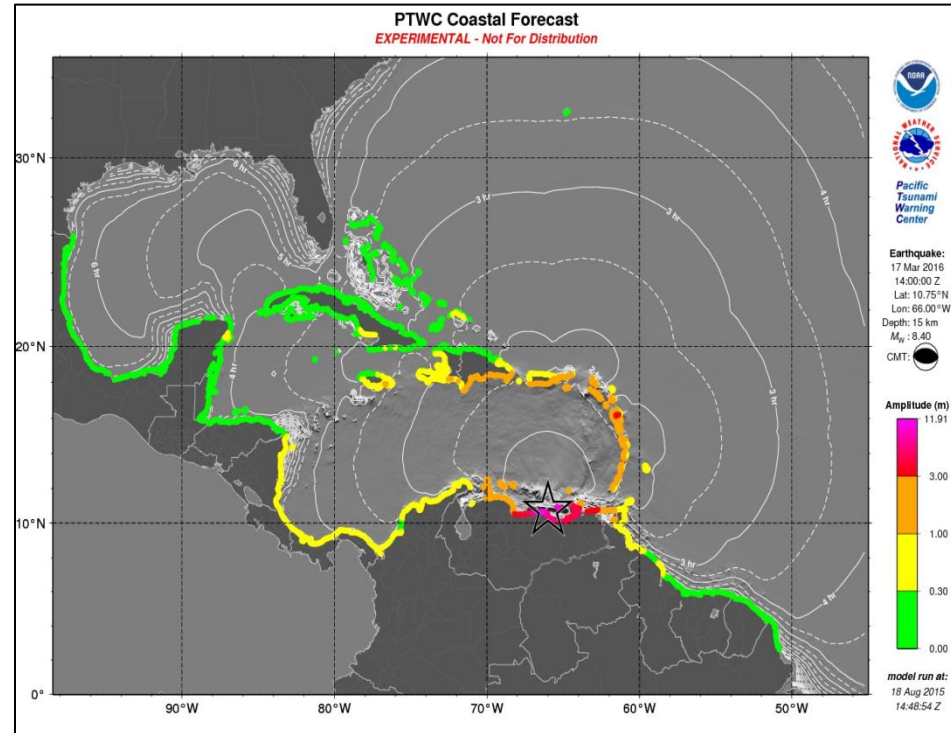
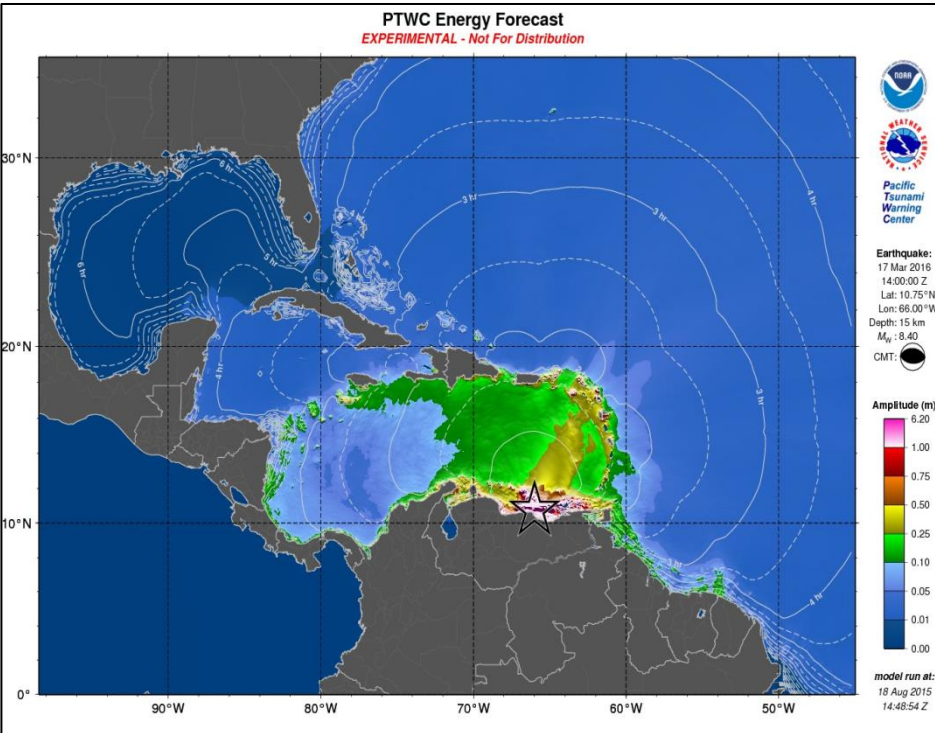
PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

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

Event ID: ushispaniola.se



# Prévision des hauteurs de vagues Venezuela

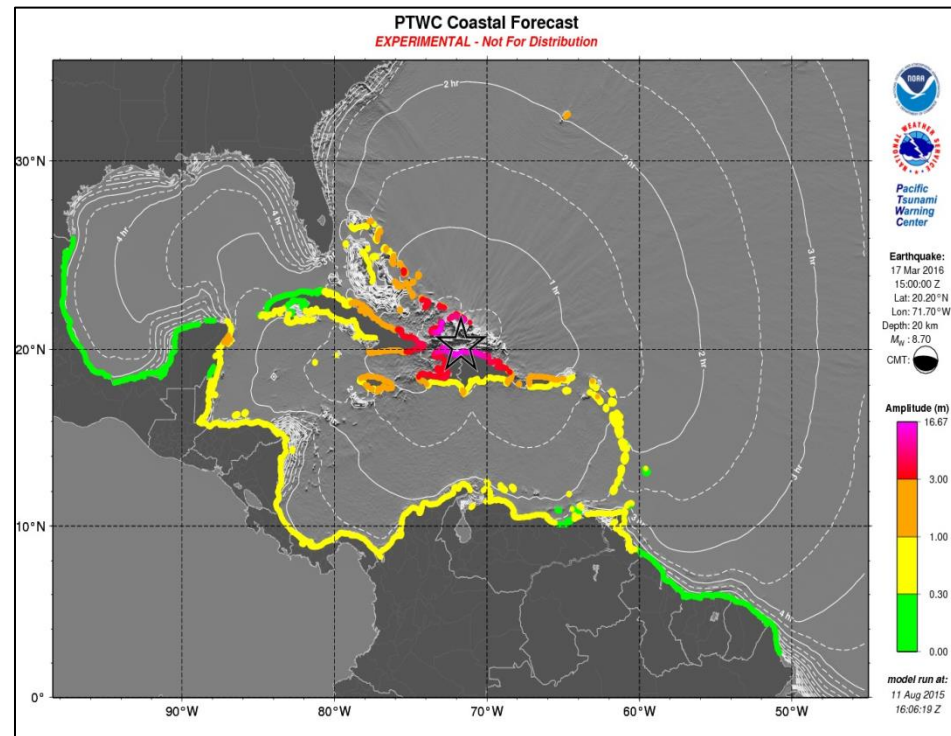
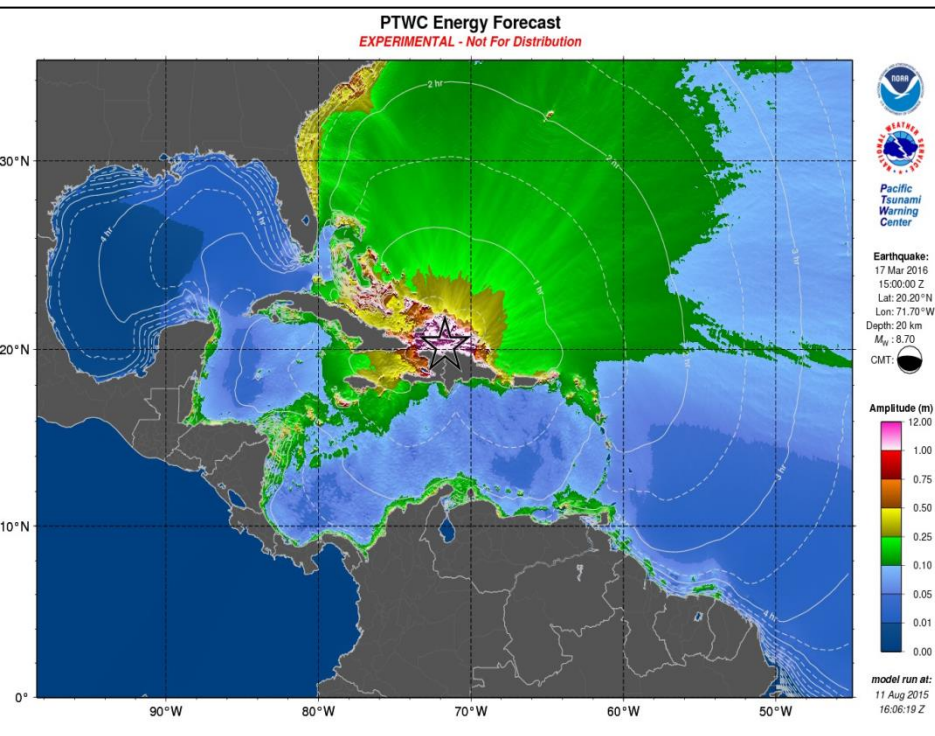


**Carte RIFT côtier avec l'amplitude maximale pour le bassin Atlantique occidental base sur la scène de la Caraïbes sud-ouest au Venezuela.**

**Carte RIFT tsunami côtier avec l'amplitude pour le océan Caraïbes base sur la scène de la Caraïbes sud-ouest au Venezuela.**

Lors d'un événement réel ce produits sont disponible uniquement a l'officiellement désigné points focaux d'alerte aux tsunamis et le Centre Nationale d'alerte aux Tsunamis

# Prévision des hauteurs de vagues Nord d'Hispaniola



**Carte RIFT côtier avec l'amplitude maximale pour le bassin Atlantique occidental base sur la scène de la Caraïbes sud-ouest au Nord d'Hispaniola.**

**Carte RIFT tsunami côtier avec l'amplitude pour le océan Caraïbes base sur la scène de la Caraïbes sud-ouest au Nord d'Hispaniola.**

Lors d'un événement réel ce produits sont disponible uniquement a l'officiellement désigné points focaux d'alerte aux tsunamis et le Centre Nationale d'alerte aux Tsunamis.

# Produits Améliorés du PTWC

- Le premier du mars 2016 le CARIBE EWS sera la transition vers les produits améliorés du PTWC.
- Produits sont bases sur la menace de vagues de tsunami, outre le premier produit base sur l'ampleur du temps de tremblement de terre et temps de trajet.
  - Le terme est pas utilisé de surveillance, il indique si il y a une menace et du deuxième produit de la hauteur des vagues.

# Produits émis pour les messages fictifs (dummy) avec les méthodes de transmission

Centre	WMO ID	AWIPS ID	NWWS	GTS	EMWIN	AISR	Fax	Email
PTWC	WECA41 PHEB	TSUCAX	Oui	Oui	Oui	Oui	Oui	Oui

NWWS

GTS

EMWIN

AISR

NOAA Weather Wire Service

Global Telecommunications System

Emergency Manager's Weather Information Network

Aeronautical Information System Replacement

# Chronologie des Messages

## Venezuela

Date (UTC)	Time (UTC)	PTWC Message			
		#	Type	Dummy	Email
03/17/2016	1400	----Earthquake Occurs----			
03/17/2016	1405	01	Threat	Yes	Yes
03/17/2016	1425	02	Threat	No	Yes
03/17/2016	1510	03	Threat	No	Yes
03/17/2016	1545	04	Threat	No	Yes
03/17/2016	1645	05	Threat	No	Yes
03/17/2016	1745	06	Threat	No	Yes
03/17/2016	1845	07	Threat	No	Yes
03/17/2016	1945	08	Final Threat	No	Yes

# Chronologie des Messages Nord d'Hispaniola

Date (UTC)	Time (UTC)	PTWC Message			
		#	Type	Dummy	Email
03/17/2016	1500	---- Earthquake Occurs ----			
03/17/2016	1505	01	Threat	Yes	Yes
03/17/2016	1525	02	Threat	No	Yes
03/17/2016	1600	03	Threat	No	Yes
03/17/2016	1630	04	Threat	No	Yes
03/17/2016	1700	05	Threat	No	Yes
03/17/2016	1800	06	Threat	No	Yes
03/17/2016	1900	07	Threat	No	Yes
03/17/2016	2000	08	Final Threat	No	Yes

# Menace de Tsunami fournis par le PTWC

- Il sera basé sur les prédictions de vagues de tsunami, et non pas l'information sismique.
- Les prédictions indiquent les niveaux de menace auxquels elles ont été prédites et à des pays ou des lieux qu'ils appliquent.
  - Niveaux= hauteurs de tsunami (mètres au-dessus du niveau normal de la marée)
    - 0.3-1 m
    - 1-3 m
    - > que 3 m
  - Menaces en général, ils sont mis à jour dans une heure.

PTWC envoie par email tous les produits améliorés simulés (texte et graphiques) à TWFP et NTWC désigné.

UNESCO IOC CARIBE EWS TWFP et NTWC: [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)

Nom d'utilisateur: tsunami

mot de passe: bigwave

# Listes de contrôle de Tsunami pour NDMO / TWFP

Tsunami Evacuation Responsibilities Checklist for Government Disaster Response Agencies					
This is a simple checklist to use when doing an evacuation. List the agency(ies) / department(s) responsible for actions and recommended number of minutes (e.g. +10 minutes) after earthquake origin time.	Earthquake Origin Time: 0000				
	Agency(ies) / Department(s):	Time (mins):			
Strong and/or long duration earthquake is felt (vary depending distance from source)	_____	+	Initiate recall of disaster response workers	_____	+
Tsunami message received from tsunami service provider (NTWCs)	_____	+	Open and operate refuge centers	_____	+
Call in staff	_____	+	Prepare to start electrical generators	_____	+
Activate emergency centers / Notify public safety agencies	_____	+	If your facility is located in a tsunami evacuation zone: -Prepare to shutoff utilities (e.g. electrical, gas, water) -Protect key equipment (e.g. computers) -Remove key documents (e.g. financial, personal information)	_____	+
Coordinate sounding of public sirens and alarm notifications	_____	+		Determine if tsunami has caused coastal damage / injuries and the need to initiate search and rescue operations	_____
Initiate media notifications and evacuation announcements	_____	+	Determine when to declare the "all clear"	_____	+
Initiate evacuation of people away from coast (Tsunami Evacuation Maps)	_____	+	Prepare for post tsunami impact operations	_____	
Put boats/ships out to sea if wave impact time permits	_____	+	Do roll call for workers ___ and volunteers ___	_____	+
Setup road-blocks and evacuation routes	_____	+		_____	+
Guide people through traffic points to shelter	_____	+		_____	



## Listes de contrôle de Tsunami pour les Contacts Nationaux Tsunami.

<b>EVENT</b>	<b>TIME (WHEN)</b>	<b>ACTION TAKING (WHAT)</b>	<b>AUTHORITY (WHO)</b>	<b>MEDIUM (HOW)</b>	<b>RESULTING ACTION</b>
EQ Occurs					
Tsunami threat message received					
Issue Public guidance					
Tsunami arrives					
Safe to return					

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

### **Venezuela Earthquake Scenario**

#### **PTWC**

WECA41 PHEB 171405  
TSUCAX

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS  
ISSUED AT 1405Z 17 MAR 2016

...CARIBEWAVE 16 TSUNAMI EXERCISE MESSAGE. REFER TO PTWC MESSAGE 1 IN THE EXERCISE HANDBOOK. THIS IS AN EXERCISE ONLY...

THIS MESSAGE IS BEING USED TO START THE CARIBEWAVE 16 CARIBBEAN TSUNAMI EXERCISE VENEZUELA SCENARIO. 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 PROVIDE EMERGENCY MANAGEMENT A REALISTIC SCENARIO TO TEST TSUNAMI RESPONSE PLANS.

THIS IS ONLY AN EXERCISE.

\$\$

### **Northern Hispaniola Earthquake Scenario**

#### **PTWC**

WECA41 PHEB 171505  
TSUCAX

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS  
ISSUED AT 1505Z 17 MAR 2016

...CARIBEWAVE 16 TSUNAMI EXERCISE MESSAGE. REFER TO PTWC MESSAGE 1 IN THE EXERCISE HANDBOOK. THIS IS AN EXERCISE ONLY...

THIS MESSAGE IS BEING USED TO START THE CARIBEWAVE 16 CARIBBEAN TSUNAMI EXERCISE NORTHERN HISPANIOLA SCENARIO. 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 PROVIDE EMERGENCY MANAGEMENT A REALISTIC SCENARIO TO TEST TSUNAMI RESPONSE PLANS.

THIS IS ONLY AN EXERCISE.

\$\$

**Appendix F. TWC Exercise Messages  
Venezuela Earthquake Scenario**

The following messages created for the CARIBE WAVE 16 tsunami exercise are representative of the official standard products issued by the PTWC during a large magnitude 8.4 earthquake and tsunami originating in Venezuela. During a real event, NTWC and TWFP would be sent via email the graphical products. The alerts would persist longer during a real event than is depicted in this exercise.

**PTWC Message #1**

WECA41 PHEB 171405  
TSUCAX

EXPERIMENTAL TSUNAMI MESSAGE NUMBER 1  
NOT FOR DISTRIBUTION  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1405 UTC THU MAR 17 2016

...TSUNAMI THREAT MESSAGE...

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*

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.

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 \*\*\*\*

**PRELIMINARY EARTHQUAKE PARAMETERS**

-----

- \* MAGNITUDE 8.4
- \* ORIGIN TIME 1400 UTC MAR 17 2016
- \* COORDINATES 10.8 NORTH 66.0 WEST
- \* DEPTH 15 KM / 9 MILES
- \* LOCATION NEAR THE COAST OF VENEZUELA

**EVALUATION**

-----

\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.4 OCCURRED  
NEAR THE COAST OF VENEZUELA AT 1400 UTC ON THURSDAY MARCH 17  
2016.

\* BASED ON THE PRELIMINARY EARTHQUAKE PARAMETERS... WIDESPREAD  
HAZARDOUS TSUNAMI WAVES ARE POSSIBLE.

**TSUNAMI THREAT FORECAST**

-----

\* HAZARDOUS TSUNAMI WAVES FROM THIS EARTHQUAKE ARE POSSIBLE  
WITHIN THE NEXT THREE HOURS ALONG SOME COASTS OF

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

**RECOMMENDED ACTIONS**

-----

\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT  
FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND  
LOCAL AUTHORITIES.

**ESTIMATED TIMES OF ARRIVAL**

-----

\* ESTIMATED TIMES OF ARRIVAL -ETA- OF THE INITIAL TSUNAMI WAVE  
FOR PLACES LISTED 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)

LOCATION	REGION	COORDINATES	ETA(UTC)
CUMANA	VENEZUELA	10.5N 64.2W	1438 03/17
MAQUETIA	VENEZUELA	10.6N 67.0W	1448 03/17
ONIMA	BONAIRE	12.3N 68.3W	1455 03/17
WILLEMSTAD	CURACAO	12.1N 68.9W	1501 03/17
ORANJESTAD	ARUBA	12.5N 70.0W	1519 03/17
KINGSTOWN	SAINT VINCENT	13.1N 61.2W	1519 03/17
SAINT GEORGES	GRENADA	12.0N 61.8W	1519 03/17
CASTRIES	SAINT LUCIA	14.0N 61.0W	1524 03/17
FORT DE FRANCE	MARTINIQUE	14.6N 61.1W	1527 03/17
ROSEAU	DOMINICA	15.3N 61.4W	1529 03/17
BASSE TERRE	GUADELOUPE	16.0N 61.7W	1532 03/17
SANTO DOMINGO	DOMINICAN REP	18.5N 69.9W	1538 03/17
SABA	SABA	17.6N 63.2W	1541 03/17
CABO ENGANO	DOMINICAN REP	18.6N 68.3W	1543 03/17
PLYMOUTH	MONTERRAT	16.7N 62.2W	1544 03/17
BASSETERRE	SAINT KITTS	17.3N 62.7W	1545 03/17
SINT EUSTATIUS	SINT EUSTATIUS	17.5N 63.0W	1546 03/17
BRIDGETOWN	BARBADOS	13.1N 59.6W	1548 03/17
JACAMEL	HAITI	18.1N 72.5W	1552 03/17
PIRATES BAY	TRINIDAD TOBAGO	11.3N 60.6W	1553 03/17
SIMPSON BARI	SINT MAARTEN	18.0N 63.1W	1554 03/17
RIOHACHA	COLOMBIA	11.5N 72.9W	1605 03/17
BARRANQUILLA	COLOMBIA	11.1N 74.9W	1611 03/17
PUERTO PLATA	DOMINICAN REP	19.8N 70.7W	1613 03/17
THE VALLEY	ANGUILLA	18.3N 63.1W	1614 03/17
SAINT JOHN'S	ANTIGUA	17.1N 61.9W	1618 03/17
PALMETTO POINT	BARBUDA	17.5N 61.9W	1624 03/17
SAINT BARTHELEM	SAINT BARTHELEMY	17.9N 62.8W	1625 03/17
GRAND TURK	TURKS N CAICOS	21.5N 71.1W	1627 03/17
CARTAGENA	COLOMBIA	10.4N 75.6W	1628 03/17
CAP HAITEN	HAITI	19.8N 72.2W	1629 03/17
SANTIAGO DE CUBA	CUBA	19.9N 75.8W	1631 03/17
BAIE BLANCHE	SAINT MARTIN	18.1N 63.0W	1632 03/17
KINGSTON	JAMAICA	17.9N 76.9W	1635 03/17
WEST CAICOS	TURKS N CAICOS	21.7N 72.5W	1638 03/17
MAYAGUANA	BAHAMAS	22.3N 73.0W	1639 03/17
GREAT INAGUA	BAHAMAS	20.9N 73.7W	1642 03/17
ALIGANDI	PANAMA	9.2N 78.0W	1645 03/17
BARACOA	CUBA	20.4N 74.5W	1647 03/17
MONTEGO BAY	JAMAICA	18.5N 77.9W	1647 03/17
CROCKED ISLAND	BAHAMAS	22.7N 74.1W	1647 03/17
PORT OF SPAIN	TRINIDAD TOBAGO	10.6N 61.5W	1649 03/17
SANTA MARTA	COLOMBIA	11.2N 74.2W	1652 03/17
PUERTO CARRETO	PANAMA	8.8N 77.6W	1652 03/17
SAN SALVADOR	BAHAMAS	24.1N 74.5W	1652 03/17
LONG ISLAND	BAHAMAS	23.3N 75.1W	1656 03/17
CAYMAN BRAC	CAYMAN ISLANDS	19.7N 79.9W	1702 03/17
PUNTA CARIBANA	COLOMBIA	8.6N 76.9W	1704 03/17

**POTENTIAL IMPACTS**

-----

\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO  
THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION  
OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT  
THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE  
CRUSHED BY DEBRIS IN THE WATER... OR BE SWEEPED OUT TO SEA.

**NEXT UPDATE AND ADDITIONAL INFORMATION**

-----

\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF  
THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.  
GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT  
EARTHQUAKE.USGS.GOV/EARTHQUAKES -ALL IN LOWERCASE LETTERS-.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT  
PTWC.WEATHER.GOV AND AT WWW.TSUNAMI.GOV.

\* COASTAL REGIONS OF PUERTO RICO... THE U.S. VIRGIN ISLANDS...  
AND THE BRITISH VIRGIN ISLANDS SHOULD REFER TO PACIFIC  
TSUNAMI WARNING CENTER MESSAGES FOR THOSE PLACES THAT CAN BE  
FOUND AT PTWC.WEATHER.GOV.

\* 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 NTWC.ARH.NOAA.GOV.

**PTWC Message #8**

WECA41 PHEB 171945  
TSUCAX

EXPERIMENTAL TSUNAMI MESSAGE NUMBER 8  
NOT FOR DISTRIBUTION  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1945 UTC THU MAR 17 2016

...FINAL TSUNAMI THREAT MESSAGE...

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*

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.

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 \*\*\*\*

**UPDATES**

-----

\* THIS IS THE FINAL TSUNAMI THREAT MESSAGE FOR THIS EVENT.

\* TSUNAMI OBSERVATIONS ARE UPDATED IN THIS MESSAGE.

**PRELIMINARY EARTHQUAKE PARAMETERS**

-----

\* MAGNITUDE 8.4  
\* ORIGIN TIME 1400 UTC MAR 17 2016  
\* COORDINATES 10.8 NORTH 66.0 WEST  
\* DEPTH 15 KM / 9 MILES  
\* LOCATION NEAR THE COAST OF VENEZUELA

**EVALUATION**

-----

\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.4 OCCURRED  
NEAR THE COAST OF VENEZUELA AT 1400 UTC ON THURSDAY MARCH 17  
2016.

\* BASED ON ALL AVAILABLE DATA... THE TSUNAMI THREAT FROM THIS  
EARTHQUAKE HAS NOW LARGELY PASSED.  
TSUNAMI THREAT FORECAST...UPDATED

-----

\* THE TSUNAMI THREAT HAS NOW LARGELY PASSED.

**RECOMMENDED ACTIONS**

-----

\* 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.

\* PERSONS LOCATED NEAR IMPACTED COASTAL AREAS SHOULD STAY ALERT  
FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM LOCAL  
AUTHORITIES.

\* REMAIN OBSERVANT AND EXERCISE NORMAL CAUTION NEAR THE SEA.

**POTENTIAL IMPACTS**

-----

\* MINOR SEA LEVEL FLUCTUATIONS MAY PERSIST IN COASTAL AREAS  
AFFECTED BY THE TSUNAMI FOR SEVERAL HOURS OR LONGER.

**TSUNAMI OBSERVATIONS**

-----

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

ILE ROYAL GUIANA FR	5.3N	52.6W	1922	0.20M/0.6FT	22
DART 42429	27.4N	85.7W	1908	0.00M/0.0FT	26
DART 42409	26.7N	85.8W	1856	0.00M/0.0FT	24
PUERTO MORELOS MX	21.4N	86.8W	1855	0.14M/0.5FT	28
ISLA MUJERES	21.2N	86.7W	1839	0.18M/0.6FT	18
DART 41424	32.9N	72.5W	1746	0.02M/0.1FT	14
LIMON CR	10.0N	83.0W	1735	0.69M/2.3FT	18
GEORGE TOWN CY	19.3N	81.4W	1732	0.12M/0.4FT	24
EL PORVENIR PM	9.6N	78.9W	1732	0.46M/1.5FT	26
SAN ANDRES CO	12.6N	81.7W	1716	0.45M/1.5FT	22
SANTA MARTA CO	11.2N	74.2W	1702	0.94M/3.1FT	22
CAP HAITIEN HT	19.8N	72.2W	1640	0.24M/0.8FT	26
PARHAM AT	17.1N	61.8W	1628	0.82M/2.7FT	16
DART 41420	23.5N	67.3W	1625	0.03M/0.1FT	22
DART 41421	23.4N	63.9W	1625	0.03M/0.1FT	26
LAMESHURBAYSTJOHNVI	18.3N	64.7W	1623	2.05M/6.7FT	22
PUERTO PLATA DO	19.8N	70.7W	1620	0.25M/0.8FT	18
DESIRADE GUADELOUPE	16.3N	61.1W	1609	0.96M/3.2FT	28
SAN JUAN PR	18.5N	66.1W	1611	0.41M/1.4FT	24
JACMEL HT	18.2N	72.5W	1600	1.47M/4.8FT	14
CHARLOTTEVILLE TT	11.3N	60.5W	1606	0.75M/2.4FT	26
LE ROBERT MARTINIQUE	14.7N	60.9W	1559	1.16M/3.8FT	28
BRIDGEPORT BB	13.1N	59.6W	1554	0.78M/2.6FT	22
PORT ST CHARLES BB	13.3N	59.6W	1555	0.88M/2.9FT	16
POINT A PITRE GP	16.2N	61.5W	1555	4.30M/14.1FT	28
PUNTA CANA DO	18.5N	68.4W	1547	1.91M/6.3FT	18
DESHAIES GUADELOUPE	16.3N	61.8W	1544	3.03M/9.9FT	20
ESPERANZA VIEQUES P	18.1N	65.5W	1542	1.69M/5.6FT	24
PORT SAN ANDRES DO	18.4N	69.6W	1548	1.68M/5.5FT	26
MAYAGUEZ PR	18.2N	67.2W	1541	1.42M/4.7FT	18
ROSEAU DM	15.3N	61.4W	1540	2.74M/9.0FT	26
LE PRECHEUR MARTINI	14.8N	61.2W	1534	2.55M/8.4FT	26
FORT DE FRANCE MQ	14.6N	61.1W	1541	2.97M/9.7FT	26
MONA ISLAND PR	18.1N	67.9W	1538	1.38M/4.5FT	20
CALLIAQUA VC	13.1N	61.2W	1540	1.87M/6.1FT	22
LIMETREE VI	17.7N	64.8W	1538	2.42M/7.9FT	22
ST CROIX VI	17.7N	64.7W	1535	2.27M/7.5FT	24
MAGUEYES ISLAND PR	18.0N	67.0W	1534	1.38M/4.5FT	14
PENUELAS PR	18.0N	66.8W	1535	1.91M/6.3FT	20
PRICKLEY BAY GD	12.0N	61.8W	1525	1.76M/5.8FT	24
BULLEN BAY CURACAO	12.2N	69.0W	1512	2.18M/7.2FT	22
DART 42407	15.3N	68.2W	1507	0.22M/0.7FT	16

**NEXT UPDATE AND ADDITIONAL INFORMATION**

-----

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

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.  
GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT  
EARTHQUAKE.USGS.GOV/EARTHQUAKES-ALL IN LOWERCASE LETTERS-.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT  
PTWC.WEATHER.GOV AND AT WWW.TSUNAMI.GOV.

\* COASTAL REGIONS OF PUERTO RICO... THE U.S. VIRGIN ISLANDS...  
AND THE BRITISH VIRGIN ISLANDS SHOULD REFER TO PACIFIC  
TSUNAMI WARNING CENTER MESSAGES FOR THOSE PLACES THAT CAN BE  
FOUND AT PTWC.WEATHER.GOV.

\* 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 NTWC.ARH.NOAA.GOV.

## Northern Hispaniola Earthquake Scenario

The following messages created for the CARIBE WAVE 16 tsunami exercise are representative of the official standard products issued by the PTWC during a large magnitude 8.7 earthquake and tsunami originating just northern Hispaniola. During a real event, the TVCs would also issue graphical and html-based products to their web sites and via RSS. The alerts would persist longer during a real event than is depicted in this exercise.

### PTWC Message #1

WECA41 PHEB 171505  
TSUCAX

EXPERIMENTAL TSUNAMI MESSAGE NUMBER 1  
NOT FOR DISTRIBUTION  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1505 UTC THU MAR 17 2016

...TSUNAMI THREAT MESSAGE...

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*

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.

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 \*\*\*\*

### PRELIMINARY EARTHQUAKE PARAMETERS

\* MAGNITUDE 8.5  
\* ORIGIN TIME 1500 UTC MAR 17 2016  
\* COORDINATES 20. NORTH 71.7 WEST  
\* DEPTH 20 KM / 12 MILES  
\* LOCATION DOMINICAN REPUBLIC REGION

### EVALUATION

\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.5 OCCURRED IN THE DOMINICAN REPUBLIC REGION AT 1500 UTC ON THURSDAY MARCH 17 2016.

\* BASED ON THE PRELIMINARY EARTHQUAKE PARAMETERS... WIDESPREAD HAZARDOUS TSUNAMI WAVES ARE POSSIBLE.

### TSUNAMI THREAT FORECAST

\* HAZARDOUS TSUNAMI WAVES FROM THIS EARTHQUAKE ARE POSSIBLE WITHIN THE NEXT THREE HOURS ALONG SOME COASTS OF

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

### RECOMMENDED ACTIONS

\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND LOCAL AUTHORITIES.

### ESTIMATED TIMES OF ARRIVAL

\* ESTIMATED TIMES OF ARRIVAL (ETA) OF THE INITIAL TSUNAMI WAVE FOR PLACES LISTED 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)
CAP HAITEN	HAITI	19.8N 72.2W	1509 03/17
PUERTO PLATA	DOMINICAN REP	19.8N 70.7W	1514 03/17
WEST CAICOS	TURKS N CAICOS	21.7N 72.5W	1521 03/17
GREAT INGLIA	BAHAMAS	20.9N 73.7W	1524 03/17
MAXIGUANA	BAHAMAS	22.3N 73.0W	1527 03/17
BARACOA	CUBA	20.4N 74.5W	1529 03/17
GRAND TURK	TURKS N CAICOS	21.5N 71.1W	1529 03/17
CROOKED ISLAND	BAHAMAS	22.7N 74.1W	1542 03/17
SANTIAGO D CUBA	CUBA	19.5N 75.8W	1544 03/17
CARO ENGLANO	DOMINICAN REP	18.6N 68.3W	1546 03/17
SAN SALVADOR	BAHAMAS	24.1N 74.5W	1549 03/17
LONG ISLAND	BAHAMAS	23.3N 75.1W	1551 03/17
EXUMA	BAHAMAS	23.6N 75.9W	1604 03/17
MONTEGO BAY	JAMAICA	18.5N 77.9W	1605 03/17
COT ISLAND	BAHAMAS	24.4N 75.5W	1610 03/17
CAYMAN BRAC	CAYMAN ISLANDS	19.7N 79.9W	1617 03/17
ABACO ISLAND	BAHAMAS	25.6N 77.1W	1618 03/17
JACMAEL	HAITI	18.1N 72.5W	1619 03/17
KINGSTON	JAMAICA	17.9N 76.9W	1620 03/17
SANTO DOMINGO	DOMINICAN REP	18.5N 69.9W	1623 03/17
ANDROS ISLAND	BAHAMAS	25.8N 77.9W	1623 03/17
SABA	SABA	17.6N 63.2W	1626 03/17
JEREMIE	HAITI	18.6N 74.1W	1629 03/17
SIMPSON BAAI	SINT MAARTEN	18.0N 63.1W	1633 03/17
GRABA	CUBA	21.1N 76.1W	1634 03/17
ELEUTHERA ISLAN	BAHAMAS	25.2N 76.1W	1636 03/17
SINT EUSTATIUS	SINT EUSTATIUS	17.5N 63.0W	1636 03/17
CENUEGOS	CUBA	22.0N 80.5W	1639 03/17
NASSAU	BAHAMAS	25.1N 77.4W	1640 03/17
THE VALLEY	ANGUILLA	18.3N 63.1W	1642 03/17
BASSETERRE	SAINT KITTS	17.3N 62.7W	1642 03/17
FREEPORT	BAHAMAS	26.5N 78.8W	1643 03/17
GRAND CAYMAN	CAYMAN ISLANDS	19.3N 81.3W	1644 03/17
PALMETTO POINT	BARBUDA	17.6N 61.9W	1651 03/17
ORINIA	RONAIRE	12.3N 68.3W	1653 03/17
BASSE TERRE	GUADELOUPE	16.0N 61.7W	1657 03/17
PLYMOUTH	MONTSERRAT	16.7N 62.2W	1657 03/17
SAINT BARTHELEMY	SAINT BARTHELEMY	17.5N 62.5W	1658 03/17
WILLEMSTAD	CURACAO	12.1N 68.9W	1659 03/17
ORANJESTAD	ARUBA	12.5N 70.0W	1701 03/17
ROSEAU	DOMINICA	15.3N 61.4W	1703 03/17
BAIE BLANCHE	SAINT MARTIN	18.1N 63.0W	1704 03/17
FORT DE FRANCE	MARTINIQUE	14.6N 61.1W	1706 03/17
SAINT JOHN	ANTIGUA	17.1N 61.9W	1708 03/17
RUTHS BAY	BERMUDA	32.4N 64.0W	1710 03/17
CASTRIES	SAINT LUCIA	14.0N 61.0W	1711 03/17
BARRANQUILLA	COLOMBIA	11.1N 74.9W	1713 03/17
BIMBI	BAHAMAS	25.8N 79.2W	1715 03/17
RIOHACHA	COLOMBIA	11.6N 72.9W	1715 03/17
PORT AU PRINCE	HAITI	18.5N 72.4W	1718 03/17
BRIDGETOWN	BARBADOS	13.1N 59.6W	1720 03/17
KINGSTOWN	SAINT VINCENT	13.3N 61.2W	1720 03/17
MAQUETIA	VENEZUELA	10.6N 67.0W	1721 03/17
CDZUMEL	MEXICO	20.5N 87.0W	1726 03/17
CARTAGENA	COLOMBIA	10.4N 75.6W	1727 03/17
SAINT GEORGES	GRENADA	12.0N 61.8W	1730 03/17
PUERTO CORTES	HONDURAS	15.9N 88.0W	1734 03/17
AUGANAN	PANAMA	9.2N 78.0W	1738 03/17
CUMANA	VENEZUELA	10.5N 64.2W	1739 03/17
PIRATES BAY	TRINIDAD TOBAGO	11.3N 60.6W	1742 03/17
PUERTO CARRETO	PANAMA	8.8N 87.0W	1747 03/17
TRUJILLO	HONDURAS	15.9N 86.0W	1753 03/17
SANTA MARTA	COLOMBIA	11.2N 74.2W	1755 03/17
LA HABANA	CUBA	23.2N 82.4W	1756 03/17
PUNTA CARIBIANA	COLOMBIA	8.6N 76.9W	1800 03/17

### POTENTIAL IMPACTS

\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE CRUSHED BY DEBRIS IN THE WATER... OR BE SWEEPED OUT TO SEA.

### NEXT UPDATE AND ADDITIONAL INFORMATION

\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF THE SITUATION WARRANTS.

\* AUTHORITY INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT EARTHQUAKE.USGS.GOV/EARTHQUAKES - ALL IN LOWERCASE LETTERS.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT PTWC.WEATHER.GOV AND AT WWW.TSUNAMI.GOV.

\* COASTAL REGIONS OF PUERTO RICO... THE U.S. VIRGIN ISLANDS... AND THE BRITISH VIRGIN ISLANDS SHOULD REFER TO PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR THOSE PLACES THAT CAN BE FOUND AT PTWC.WEATHER.GOV.

\* 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 NTWVCARH.NOAA.GOV.

**PTWC Message #8**

WECA41 PHEB 172000  
TSUCAX

EXPERIMENTAL TSUNAMI MESSAGE NUMBER 8  
NOT FOR DISTRIBUTION  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
2000 UTC THU MAR 17 2016

...FINAL TSUNAMI THREAT MESSAGE...

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*

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.

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 \*\*\*\*

**UPDATES**

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\* THIS IS THE FINAL TSUNAMI THREAT MESSAGE FOR THIS EVENT.

\* TSUNAMI OBSERVATIONS ARE UPDATED IN THIS MESSAGE.

**PRELIMINARY EARTHQUAKE PARAMETERS**

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- \* MAGNITUDE 8.7
- \* ORIGIN TIME 1500 UTC MAR 17 2016
- \* COORDINATES 20.2 NORTH 71.7 WEST
- \* DEPTH 20 KM / 12 MILES
- \* LOCATION DOMINICAN REPUBLIC REGION

**EVALUATION**

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.7 OCCURRED IN  
THE DOMINICAN REPUBLIC REGION AT 1500 UTC ON THURSDAY MARCH 17  
2016.

\* BASED ON ALL AVAILABLE DATA... THE TSUNAMI THREAT FROM THIS  
EARTHQUAKE HAS NOW LARGELY PASSED.

**TSUNAMI THREAT FORECAST...UPDATED**

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\* THE TSUNAMI THREAT HAS NOW LARGELY PASSED.

**RECOMMENDED ACTIONS**

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\* 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.

\* PERSONS LOCATED NEAR IMPACTED COASTAL AREAS SHOULD STAY ALERT  
FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM LOCAL  
AUTHORITIES.

\* REMAIN OBSERVANT AND EXERCISE NORMAL CAUTION NEAR THE SEA.

**POTENTIAL IMPACTS**

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\* MINOR SEA LEVEL FLUCTUATIONS MAY PERSIST IN COASTAL AREAS  
AFFECTED BY THE TSUNAMI FOR SEVERAL HOURS OR LONGER.

**TSUNAMI OBSERVATIONS**

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

PILOTS STATION LA	28.9N	89.4W	1921	0.08M/0.3FT	18
KEY WEST FL	24.6N	81.8W	1852	0.20M/0.6FT	18
TRIDENT PIER FL	28.4N	80.6W	1854	1.26M/4.1FT	20
DART 42429	27.4N	85.7W	1820	0.01M/0.0FT	26
LIMON CR	10.0N	83.0W	1818	0.71M/2.3FT	22
CHARLOTTEVILLE TT	11.3N	60.5W	1809	0.28M/0.9FT	24
DART 42409	26.7N	85.8W	1810	0.01M/0.0FT	28
PUERTO MORELOS MX	21.4N	86.8W	1806	0.38M/1.2FT	18
ISLA MUJERES	21.2N	86.7W	1759	0.68M/2.2FT	14
EL PORVENIR PM	9.6N	78.9W	1754	0.87M/2.9FT	18
PRICKLEY BAY GD	12.0N	61.8W	1749	0.47M/1.5FT	24
SAN ANDRES CO	12.6N	81.7W	1751	0.57M/1.9FT	26
CALLIAQUA VC	13.1N	61.2W	1735	0.50M/1.7FT	22
BRIDGEPORT BB	13.1N	59.6W	1729	0.31M/1.0FT	26
PORT ST CHARLES BB	13.3N	59.6W	1722	0.31M/1.0FT	16
SANTA MARTA CO	11.2N	74.2W	1721	0.89M/2.9FT	22
FORT DE FRANCE MQ	14.6N	61.1W	1719	0.62M/2.0FT	26
LE ROBERT MARTINIQUE	14.7N	60.9W	1714	0.31M/1.0FT	22
ROSEAU DM	15.3N	61.4W	1710	0.46M/1.5FT	18
LE PRECHEUR MARTINI	14.8N	61.2W	1712	0.54M/1.8FT	28
BULLEN BAY CURACAO	12.2N	69.0W	1713	0.89M/2.9FT	24
POINT A PITRE GP	16.2N	61.5W	1701	0.60M/2.0FT	14
DART 41424	32.9N	72.5W	1704	0.19M/0.6FT	26
LAMESHURBAYSTJOHNVI	18.3N	64.7W	1659	0.83M/2.7FT	28
DESHAIES GUADELOUPE	16.3N	61.8W	1657	0.62M/2.0FT	28
PORT SAN ANDRES DO	18.4N	69.6W	1651	1.14M/3.7FT	22
PARHAM AT	17.1N	61.8W	1647	0.42M/1.4FT	28
DESIRADE GUADELOUPE	16.3N	61.1W	1652	0.38M/1.3FT	22
ESPERANZA VIEQUES P	18.1N	65.5W	1639	0.73M/2.4FT	16
GEORGE TOWN CY	19.3N	81.4W	1639	0.47M/1.5FT	18
LIMETREE VI	17.7N	64.8W	1634	0.77M/2.5FT	20
ST CROIX VI	17.7N	64.7W	1629	0.80M/2.6FT	24
DART 42407	15.3N	68.2W	1630	0.07M/0.2FT	18
JACMEL HT	18.2N	72.5W	1629	0.78M/2.5FT	26
MAGUEYES ISLAND PR	18.0N	67.0W	1621	0.91M/3.0FT	26
PENUELAS PR	18.0N	66.8W	1623	0.94M/3.1FT	26
DART 41421	23.4N	63.9W	1619	0.19M/0.6FT	20
MONA ISLAND PR	18.1N	67.9W	1610	2.74M/9.0FT	22
PUNTA CANA DO	18.5N	68.4W	1604	3.47M/11.4FT	22
SAN JUAN PR	18.5N	66.1W	1601	2.03M/6.7FT	16
MAYAGUEZ PR	18.2N	67.2W	1603	3.55M/11.6FT	14
DART 41420	23.5N	67.3W	1553	0.24M/0.8FT	24
PUERTO PLATA DO	19.8N	70.7W	1522	15.27M/50.1FT	22
CAP HAITIEN HT	19.8N	72.2W	1514	17.74M/58.2FT	16

**NEXT UPDATE AND ADDITIONAL INFORMATION**

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

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.  
GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT  
EARTHQUAKE.USGS.GOV/EARTHQUAKES -ALL IN LOWERCASE LETTERS-.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT  
PTWC.WEATHER.GOV AND AT WWW.TSUNAMI.GOV.

\* COASTAL REGIONS OF PUERTO RICO... THE U.S. VIRGIN ISLANDS...  
AND THE BRITISH VIRGIN ISLANDS SHOULD REFER TO PACIFIC  
TSUNAMI WARNING CENTER MESSAGES FOR THOSE PLACES THAT CAN BE  
FOUND AT PTWC.WEATHER.GOV.

\* 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 NTWC.ARH.NOAA.GOV.

# Participation des Etats Membres - Inscription

- Chaque État membre doit établir son propre groupe de travail pour déterminer l'ampleur de la participation nationale et les tests.

The screenshot shows the website interface for TsunamiZone.org. At the top, there is a navigation bar with links for 'Inicio', 'Regiones del TsunamiZone', 'Otros Idiomas', 'Contáctenos', 'Búsqueda', and 'Iniciar sesión'. Below this is a large banner image of a coastline with a white silhouette of a person running up a cliff. The banner includes the text 'The TsunamiZone' and 'American Samoa Tsunami Preparedness Week Sept. 18-24, 2016'. A secondary navigation bar contains links: '¡Inscríbese aquí!', '¡Conozca su zona!', '¿Quién participará?', 'Cómo Participar', 'Recursos', 'Noticias y Eventos', and 'Socios'. The main content area features a '¡BIENVENIDO AL TSUNAMIZONE!' section with text about tsunami preparedness and a graphic with three icons: a person crouching under a table ('¡AGÁCHESE!'), a person lying on the floor ('¡CÚBRASE!'), and a person crouching ('¡AGÁRRESE!'). Below this is another graphic with the text 'DIRIJASE A TERRENO ELEVADO' and 'El sismo es la principal advertencia de Tsunami'. On the right side, there is a 'PARTICIPANTES' section with a table of registration statistics.

PARTICIPANTES	
¡Inscríbese hoy para unirse a más de cien mil personas que se preparan para los tsunamis!	
Total mundial:	Más de 120.000
Participantes en regiones TsunamiZone:	Más de 120.000
Participantes	...



**WELCOME TO THE TSUNAMIZONE IN THE CARIBBEAN!**

**Regional Tsunami Exercises to be conducted in the Caribbean and Adjacent Regions on March 17, 2016: [Register Now!](#)**

On March 17, 2016, the annual Caribbean and Adjacent Regions Tsunami Exercise, [CARIBE WAVE](#), will take place. UNESCO, the [U.S. National Tsunami Hazard Mitigation Program \(NTHMP\)](#), in the case of Puerto Rico and the US Virgin Islands, together with other regional organizations, are providing the framework. This exercise is a means for emergency responders throughout the Caribbean and Adjacent Regions serviced by the [Pacific Tsunami Warning Center \(PTWC\)](#), to test and update tsunami response plans with their at risk communities. The scenarios are based on tsunamis generated by major earthquakes located off the coast of Venezuela (14h00 UTC) and the

**UNESCO CARIBE EWS**

Member States and Territories

Antigua and Barbuda	Aruba	
Bahamas	Barbados	Belize
Brazil*	Canada**	Colombia
Costa Rica	Cuba*	Curaçao
Dominica	Dominican Republic	

**REGISTER YOUR TSUNAMI PREPAREDNESS ACTIVITIES**

- If you have never registered with TsunamiZone.org, please use the form on the left.
- If you have previously registered with TsunamiZone.org, please login to your TsunamiZone profile using the form on the right.
- If *someone else* has registered your organization in the past, but you will be the registrant this year, please create a new registration using the form on the left.
- If your organization will participate in two or more TsunamiZone regions, e-mail [info@tsunamiZone.org](mailto:info@tsunamiZone.org) for registration assistance.

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

<p><b>REGISTERING FOR THE FIRST TIME?</b></p> <p><b>BEGIN Your Registration</b></p> <p>Who are you registering?  <input type="text" value="Select..."/></p> <p>Please select your country:  <input type="text" value="United States"/></p> <p><input type="button" value="Continue"/></p>	<p><b>REGISTERED IN PAST YEARS?</b></p> <p><b>LOGIN to Renew Your Registration</b></p> <p>Confirm your TsunamiZone region:  <input type="text" value="Tsunami Zone"/></p> <p>Enter your e-mail address:  <input type="text"/></p> <p>TsunamiZone Password:  <input type="text"/></p>
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**BENEFITS**

**By registering tsunami preparedness activities, you or your organization will:**

- 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.

Les pays peuvent garder une trace de l'enregistrement en « Who is Participating »



# Dispositions pour les médias

- Réseau Sismique de Puerto Rico (Anglais et Espagnol)  
<http://www.prsn.uprm.edu/mediakit/>
- Centre sur la Recherche Sismique (Anglais)  
[http://www.uwiseismic.com/Downloads/TCHWS Final Media Kit.pdf](http://www.uwiseismic.com/Downloads/TCHWS%20Final%20Media%20Kit.pdf)
- Des exemples de communiqué de presse dans le Manuel peuvent être adaptés si nécessaire.
- Réseaux sociaux; #CaribeWave

# Actions en cas d'un événement réel

Dans le cas d'un événement réel durant l'exercice, le TWC émettra leur message standard pour l'événement. Ces messages auront priorité absolue et une décision sera prise par les TWC s'il faut délivrer le message fictif et envoyer les messages électroniques. Les tremblements de terre qui déclenchent seulement un Tsunami Information Statement (déclaration d'information sur des tsunamis) ne perturberont pas l'exercice. Tous les documents et correspondance relatifs à cet exercice doivent être clairement identifiés comme "**CARIBE WAVE 16**" et "**Exercise.**"

# Procédure pour fausse alarme

- Chaque fois que des exercices d'intervention en cas de catastrophe sont menés, le potentiel existe pour que le public ou les médias à interpréter l'événement comme étant réel. Des procédures devront être mises en place par l'ensemble des entités participantes pour répondre aux préoccupations du public ou des médias concernés dans l'exercice en cas de mauvaises interprétations.

# Formulaire d'évaluation après l'exercice

- Tous les membres participants sont invités à fournir des commentaires brefs sur l'exercice.
  - Ces commentaires aideront le ICG / CARIBE-EWS, NTHMP, et la NOAA dans l'évaluation du CARIBEWAVE14 et le développement des exercices suivants, et aider les membres d'intervention à documenter les leçons apprises.
- La date limite pour remplir le formulaire d'évaluation est le **23 mars 2016.**  
<https://www.surveymonkey.com/r/CaribeWave16>

# Ressources

- Manuel IOC “How to plan, conduct and evaluate tsunami exercises” (Anglais, Espagnol).
- Manuel CARIBE WAVE 2011, 2013, 2014, et 2015.
- Rapport final CARIBE WAVE 2013, 2014, et 2015.
- Plan de Communication de PTWC pour les Caraïbes.
- Guide de l'utilisateur pour les Produits Améliorés du PTWC
- améliorés Disponible sur [www.caribewave.info](http://www.caribewave.info)

# Autres informations

- Matériels additionnels seront placés sur les pages de CTWP ([www.caribewave.info](http://www.caribewave.info)).
  - Cette présentation sera placée sur la page.
- Envoyer les liens des pages de chaque pays à [christa.vonh@noaa.gov](mailto:christa.vonh@noaa.gov) pour être inclus sur les pages de CTWP.

# Equipe CARIBE WAVE 16

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# Chronologie

<b>Action</b>	<b>Date limite (complété)</b>
Ce Project est diffuse parmi les ICG CARIBE EWS TNC/TWFP	Septembre - 2015 (sep 2015)
<b>Date Limite pour commentaires</b>	18 septembre 2015 (sep 2015)
<b>Version finale du manuel d'exercice disponible en ligne</b>	15 octobre 2015 (janvier 2016)
<b>Lettre Circulaire émise par IOC a MS</b>	Novembre, 2015 (janvier 2016)
<b>1<sup>er</sup> Webinaire</b>	19, 20 et 21 janvier 2016
<b>2<sup>do</sup> Webinaire</b>	1, 2, et 3 mars 2016
<b>Date limite de Inscription dans l'exercice</b>	17 mars 2016
<b>l'Exercice</b>	17 mars 2016
<b>Date limite pour soumettre le Questionnaire d'évaluation de l'exercice</b>	23 mars 2016
<b>Rapport final de Manuel</b>	1 avril 2016
<b>Discussion de l'Exercice ICG CARIBE EWS 11<sup>ma</sup> Session</b>	5-7 avril 2016



# Webinaires

- ✓ 19 January in English
- ✓ 20 de enero en Español
- ✓ 21 janvier à Français
- 1 March in English
- 2 de marzo en Español
- 3 mars à Français

# Questions, Commentaires

Merci de votre participation

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