

**EXERCISE CARIBE WAVE/LANTEX 14**  
**A Caribbean and Northwestern Atlantic**  
**Tsunami Warning Exercise**

**Portugal Scenario**

**26 March 2014**

**Volume 1**

**Participant Handbook**

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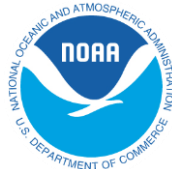
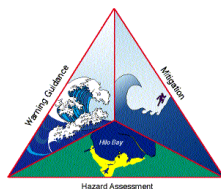
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NOTE: The contents of this handbook are patterned after the Exercise Caribe Wave 11 and Exercise Caribe Wave/Lantex 13 (*Exercise Caribe Wave 11: A Caribbean tsunami warning exercise, 23 March 2011*. IOC Technical Series, 93. Paris, UNESCO, 2011 [IOC/2010/TS/93 Rev.] [English/French/Spanish]; and *Exercise Caribe Wave/Lantex 13: A Caribbean tsunami warning exercise, 20 March 2013; Volume 1: Participant handbook*. IOC Technical Series, 101, Paris, UNESCO, 2012 [IOC/2012/TS/101 VOL.1]). These Caribe Wave handbooks followed the Exercise Pacific Wave 08 manual published by the Intergovernmental Oceanographic Commission (*Exercise Pacific Wave 08: A Pacific-wide Tsunami Warning and Communication Exercise, 28–30 October 2008*. IOC Technical Series, 82, Paris, UNESCO, 2008 [IOC/2008/TS/82.]). Another important reference is the document *How to plan, conduct and evaluate UNESCO/IOC tsunami wave exercises*. IOC Manuals and Guides, 58 rev., Paris: UNESCO, 2013 [IOC/2012/MG/58 Rev] (English, Spanish).

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US National Tsunami Hazard Mitigation Program (NTHMP)  
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\* Annexes IV, V and VII are available in English only.

## TABLE OF CONTENTS

	page
<b>SUMMARY</b> .....	<b>1</b>
<b>1. BACKGROUND</b> .....	<b>1</b>
<b>2. EXERCISE CONCEPT</b> .....	<b>4</b>
2.1 PURPOSE .....	4
2.2 OBJECTIVES .....	4
2.3 TYPE OF EXERCISE .....	<b>5</b>
<b>3. EXERCISE OUTLINE</b> .....	<b>7</b>
3.1 GENERAL.....	7
3.2 MASTER SCHEDULE (EXERCISE SCRIPT) .....	9
<b>3.2.1 Scenario timeline</b> .....	<b>9</b>
<b>3.2.2 TWC message types</b> .....	<b>11</b>
<b>3.2.3 Product types</b> .....	<b>11</b>
3.3 ACTIONS IN CASE OF A REAL EVENT .....	12
3.4 PROCEDURE FOR FALSE ALARM .....	12
3.5 RESOURCES .....	12
3.6 MEDIA ARRANGEMENTS .....	13
<b>4. POST-EXERCISE EVALUATION</b> .....	<b>13</b>
<b>5. REFERENCES</b> .....	<b>13</b>
 <b>ANNEXES</b>	
ANNEX I	STANDARD OPERATING PROCEDURES FOR TSUNAMI WARNING FOCAL POINTS AND TSUNAMI EMERGENCY RESPONSE OPERATIONS
ANNEX II	EXAMPLE TABLE TOP EXERCISE
ANNEX III	SCENARIO DESCRIPTION
ANNEX IV	TWC DUMMY MESSAGES
ANNEX V	US TWC EXERCISE MESSAGES
ANNEX VI	SAMPLE PRESS RELEASE FOR LOCAL MEDIA
ANNEX VII	LIST OF ACRONYMS

## SUMMARY

The Intergovernmental Coordination Group for the Tsunami and other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (ICG/CARIBE-EWS) of Intergovernmental Oceanographic Commission (IOC) of the United Nations Educational, Scientific and Cultural Organization (UNESCO), the National Oceanic and Atmospheric Administration (NOAA) of the United States of America, and the US National Tsunami Hazard Mitigation Program (NTHMP) will be conducting Exercise Caribe Wave/Lantex 14 on 26 March 2014. The purpose of this exercise is to assist tsunami preparedness efforts in the Caribbean and Adjacent regions, including U.S. and Canadian East coasts.

The Caribe Wave/Lantex 14 tsunami scenario simulates a tsunami generated by a M 8.5 earthquake located approximately 270 km off the Portugal coast. The initial dummy message will be issued by the US Pacific Tsunami Warning Center (PTWC) and the National Tsunami Warning Center (NTWC) on 26 March 2014 at 10:05 UTC (Universal Time Coordinated), and disseminated over all their standard broadcast channels. The dummy message is issued to test communications with Tsunami Warning Focal Points (TWFPs) and Emergency Management Organizations (EMOs), and to start the exercise. It will be the only exercise message broadcast from the PTWC/NTWC, excluding special email messages.

The manual includes the tsunami and earthquake scenario information, timelines, the PTWC/NTWC exercise messages, a model press release, and instructions for post exercise evaluation. Given the trans-Atlantic nature of the event, coordination has been performed with the Intergovernmental Coordination Group for the Tsunami Early Warning and Mitigation System in the North-Eastern Atlantic, the Mediterranean and Connected Seas (ICG/NEAMTWS) and the Instituto Português do Mar e da Atmosfera (IPMA) which will also provide messages. High levels of vulnerability and risk to life and livelihoods from tsunamis along the Caribbean and Adjacent regions, U.S. and Canadian East coasts, should provide a strong incentive for countries and local jurisdictions to prepare for a tsunami and participate in this exercise. Also, on 26 March 2014 at 1400 UTC a Gulf of Mexico tsunami exercise will take place. This exercise, organized under the framework of the US NTHMP, is open to CARIBE-EWS countries (more information is available at [www.caribewave.info](http://www.caribewave.info))

## 1. BACKGROUND

This tsunami exercise is being conducted to assist tsunami preparedness efforts throughout the Caribbean and Northwestern Atlantic region. Recent tsunamis, such as those in the Indian Ocean (2004), Samoa (2009), Haiti and Chile (2010), and Japan (2011), attest to the importance of proper planning for tsunami response.

Historical tsunami records from sources such as the National Geophysical Data Center (NGDC) of the National Oceanic and Atmospheric Administration (NOAA) show that over 75 tsunamis with high validity have been observed in the Caribbean over the past 500 years (Figure 1). These represent approximately 7–10 % of the world's oceanic tsunamis. Earthquake, landslide, and volcanic tsunami sources have all impacted the region. Since 1842 almost 3,500 people have lost their lives to tsunamis in the Caribbean. In recent years, there has been an explosive population growth and influx of tourists along the Caribbean and Western Atlantic coasts increasing the tsunami vulnerability of the region (von Hillebrandt, 2013). In addition to tsunamis, the region also has a long history of destructive earthquakes. Historical records show that major earthquakes have struck the Caribbean region many times during the past 500 years. Within the region there are multiple fault segments and submarine features that could be the source of earthquake and landslide generated tsunamis (Figure 2). The perimeter of the Caribbean plate is bordered by no fewer than four major plates (North American, South American, Nazca, and Cocos). Subduction occurs along the Eastern and Northeastern Atlantic margins of the Caribbean plate. Normal, transform and strike slip faulting characterize northern South America, eastern Central

America, the Cayman Ridge and Trench and the Northern plate boundary (Benz et al, 2011). In addition to the local and regional sources, the region is also threatened by teletsunamis/trans-Atlantic tsunamis, like that of 1755. With nearly 160 million people (Caribbean, Central America and Northern South America) now living in this region and a major earthquake occurring about every 50 years, the question is not if another major tsunami will happen but when it happens, will the region be prepared for the tsunami impact?. The risks of major earthquakes in the Caribbean, and the possibility of a resulting tsunami, are real and should be taken seriously.

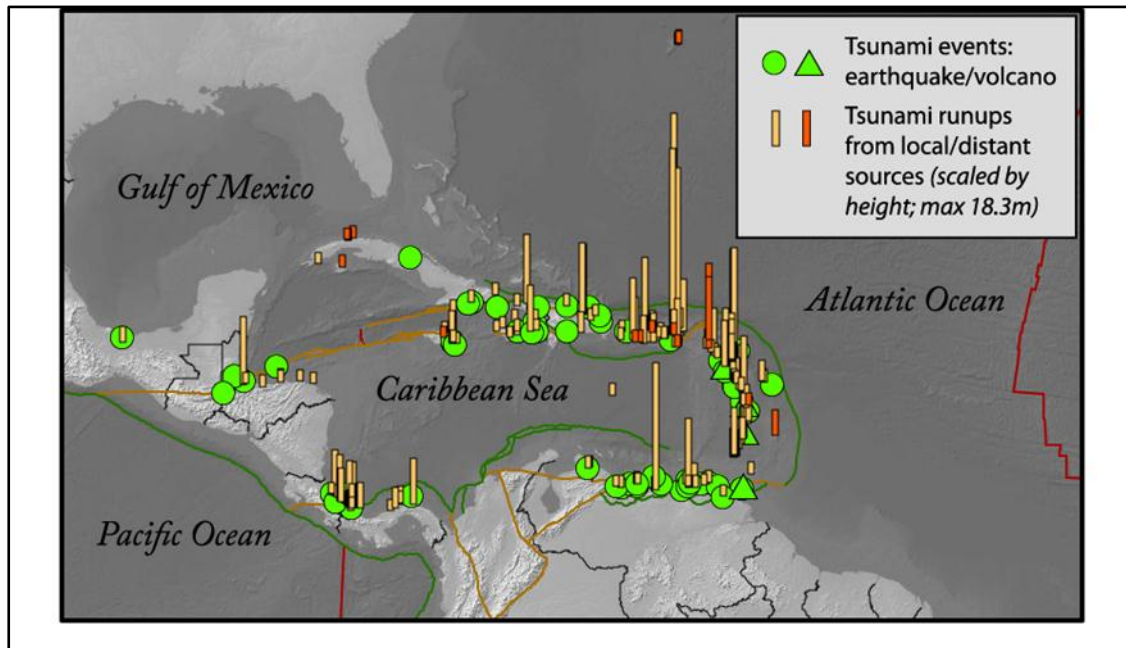
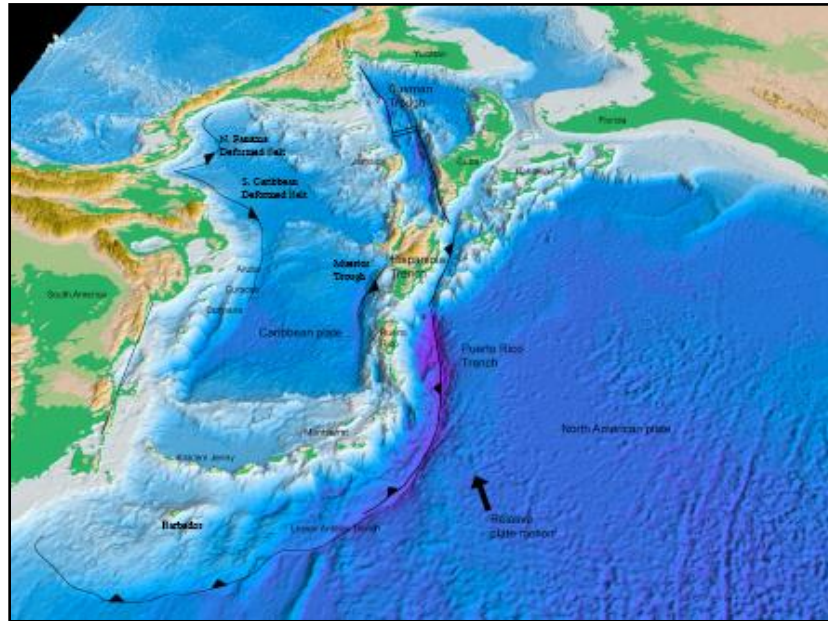


Figure 1. Map of tsunami run-ups in the Caribbean 1493-2013  
(National Geophysical Data Center, Artist: Jessee Varner.)

Tsunami warning services for the international Caribbean are currently provided by the U.S. NWS Pacific Tsunami Warning Center (PTWC) in Ewa Beach, Hawaii, while the U.S. NWS National Tsunami Warning Center (NTWC) in Palmer, Alaska, provides services for Puerto Rico, the US Virgin Islands, the British Virgin Islands, and the East and Gulf Coasts of the U.S. and East Coast of Canada. These centres issue tsunami products to the region approximately two to ten minutes after an earthquake's occurrence. The NTWC products include warnings, advisories, watches, and information statements, while the PTWC products include tsunami watch and information messages. Primary recipients of Tsunami Warning Center (TWC) messages include national Tsunami Warning Focal Points, Weather Forecast Offices (WFOs), state/territory warning points/emergency operation centres, national Coast Guards, and military contacts. These agencies disseminate the messages to people potentially impacted by a tsunami. The Puerto Rico Seismic Network (PRSN) of the University of Puerto Rico at Mayagüez, Instituto Nicaraguense de Estudios Territoriales (INETER) in Nicaragua, La Fundación Venezolana de Investigaciones Sismológicas (FUNVISIS) in Venezuela, and other national and regional institutions, also provide earthquake and tsunami information for their Areas of Responsibility (AoR).





**Figure 2.** Tectonic features in the Caribbean  
(Ten Brink et al., 2008).

The Intergovernmental Coordination Group for the Tsunami and other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (ICG/CARIBE-EWS) of Intergovernmental Oceanographic Commission (IOC) of the United Nations Educational, Scientific and Cultural Organization (UNESCO), the Caribbean Disaster Emergency Management Agency (CDEMA), the Coordination Centre for the Prevention of Natural Disasters in Central America (CEPRENAC), the National Oceanic and Atmospheric Administration (NOAA) of the United States of America, and the US National Tsunami Hazard Mitigation Program (NTHMP) are providing the framework for this exercise as a means for emergency responders throughout the Caribbean to test and update tsunami response plans. High levels of vulnerability and threat in many Caribbean nations should provide a strong incentive for local jurisdictions to prepare for a tsunami.

This exercise will provide simulated tsunami messages from the Tsunami Warning Centres (TWCs) based on a hypothetical magnitude 8.5 earthquake located approximately 270 km off of Portugal at 36.04°N, 10.75°W (Figure 3). This event is similar to that which occurred on 1 November 1755 West of Portugal, and generally referred to as the Great Lisbon Earthquake and Tsunami. The 1755 earthquake, which had an estimated Moment Magnitude (Mw) between 7.5 and 8.0, generated a local and teletsunami. The main impact of the 1755 earthquake and tsunami was in Portugal, Spain and Northwest Africa killing approximately 50,000 people through tsunamis, shaking, and fires. Run-up was also significant at the Azores and Madeira Islands. A transoceanic tsunami was generated and run-up reports were documented in the Caribbean, Brazil, and Newfoundland (Canada). Although models indicated that the tsunami should have also reached the U.S. East Coast, there are no records for this region (Barkan et al., 2009).

Exercises like this will help ensure that Caribbean and Atlantic coasts are ready to respond in the event of a dangerous tsunami. Similar recent exercises in the Caribbean and Adjacent Regions (Exercise Caribe Wave 11 [IOC/2010/TS/93 Rev.] and Exercise Caribe Wave/Lantex 13 [IOC/2012/TS/101 VOL.1]), as well as the Pacific (Exercise Pacific Wave 06 [IOC/INF-1244], Exercise Pacific Wave 08 [IOC/2008/TS/82], Exercise Pacific Wave 11 [IOC/2011/TS/97VOL.1], Exercise Pacific Wave 13 [IOC/2013/TS/106 Vol.1 + Vol.2] and Northeast Atlantic and Mediterranean (Exercise NEAMWAVE 12 [IOC/2012/TS/103 VOL.1])

Basins have proven effective in strengthening preparedness levels of emergency management organizations.



Figure 3. Caribe Wave/Lantex14 event location at 10.75N 36.04W

## 2. EXERCISE CONCEPT

### 2.1 PURPOSE

The purpose of the exercise is to improve Tsunami Warning System effectiveness along the Caribbean and Northwestern Atlantic coasts. The exercise provides an opportunity for emergency management organizations throughout the region to exercise their operational lines of communications, review their tsunami response procedures, and promote tsunami preparedness. Regular exercising of response plans is critical to maintain readiness for an emergency. This is particularly true for tsunamis, which are infrequent but high impact events. Every impacted emergency management organization (EMO) is encouraged to participate.

### 2.2 OBJECTIVES

Each organization can develop their objectives for the exercise depending on their level of involvement in the scenario. The following are the overarching objectives of the exercise.

1. To exercise and evaluate operations of the Tsunami Warning System.
  - a. Validate the issuance of tsunami products from the PTWC and NTWC.
  - b. Validate the receipt and dissemination of tsunami products by CARIBE-EWS Tsunami Warning Focal Points (TWFPs).



2. To continue process of exposure to PTWC proposed CARIBE-EWS enhanced products.
  - a. Review and evaluate enhanced products that will be available in parallel with existing PTWC products.
  - b. Provide feedback on the staging, format and content of the experimental products.
3. To validate the readiness to respond to a distant tsunami.
  - a. Validate the operational readiness of the TWFP (or like function) and/or the National Disaster Management Office (NDMO).
  - b. To improve operational readiness. Before the exercise, ensure appropriate tools and response plan(s) have been developed, including public education materials.
  - c. Validate dissemination of warnings and information/advice by Tsunami Warning Focal Points to relevant in-country agencies and the public is accurate and timely.
  - d. Validate the organizational decision-making process (tsunami response plans) about public warnings and evacuations.

Validate the methods used to notify and instruct the public are accurate and timely

### 2.3 TYPE OF EXERCISE

The exercise should be carried out such that communications and decision making at various organizational levels are exercised and conducted without disrupting or alarming the general public. However, individual localities may, at their discretion, elect to extend the exercise down to the level of testing local notification systems such as the Emergency Alert System (EAS), sirens, or loudspeakers.

Exercises stimulate the development, training, testing, and evaluation of Disaster Plans and Standard Operating Procedures (SOPs). Most countries in the region have participated in SOP workshops in 2013 and should use the materials and expertise acquired to help guide exercise preparation and conduct. ANNEX I gives an overview of SOP. Exercise participants may, as well, use their own past multi-hazard drills (e.g. flood, hurricane, tsunami, earthquake, etc.) as a framework to conduct Exercise Caribe Wave/Lantex 14.

Exercises can be conducted at various scales of magnitude and sophistication. The following are examples of types of exercises conducted by EMOs:

1. Orientation Exercise (Seminar): An Orientation Exercise lays the groundwork for a comprehensive exercise program. It is a planned event, developed to bring together individuals and officials with a role or interest in multi-hazard response planning, problem solving, development of standard operational procedures (SOPs), and resource integration and coordination. An Orientation Exercise will have a specific goal and written objectives and result in an agreed upon Plan of Action.
2. Drill: The Drill is a planned activity that tests, develops, and/or maintains skills in a single or limited emergency response procedure. Drills generally involve operational response of single departments or agencies such as educational and health facilities. Drills can involve internal notifications and/or field activities.

3. **Tabletop Exercise:** The Tabletop Exercise is a planned activity in which local officials, key staff, and organizations with disaster management responsibilities are presented with simulated emergency situations. It is usually informal, in a conference room environment, and is designed to elicit constructive discussion from the participants. Participants will examine and attempt to resolve problems, based on plans and procedures, if they exist. Individuals are encouraged to discuss decisions in depth with emphasis on slow-paced problem solving, rather than rapid, real time decision-making. A Tabletop Exercise should have specific goals, objectives, and a scenario narrative (see ANNEX II for a sample Tabletop Exercise outline).
  
4. **Functional Exercise:** A Functional Exercise is a planned activity designed to test and evaluate organizational capacities. It is also utilized to evaluate the capability of a community's emergency management system by testing the Emergency Operations Plan (EOP). It is based on a simulation of a realistic emergency situation that includes a description of the situation (narrative) with communications between players and simulators. The Functional Exercise gives the players (decision-makers) a fully simulated experience of being in a major disaster event. It should take place at the appropriate coordination location (i.e. emergency operations centre, emergency command centre, command post, master control centre, etc.) and activate all the appropriate members designated by the plan. Both internal and external agencies (government, private sector, and volunteer agencies) should be involved. It requires players, controllers, simulators, and evaluators. Message traffic will be simulated and inserted by the control team for player response/actions, under real time constraints. It may or may not include public evacuations. A Functional Exercise should have specific goals, objectives, and a scenario narrative.
  
5. **Full-scale Exercise:** A Full-scale Exercise is the culmination of a progressive exercise program that has grown with the capacity of the community to conduct exercises. A Full-Scale exercise is a planned activity in a "challenging" environment that encompasses a majority of the emergency management functions. This type of exercise involves the actual mobilization and deployment of the appropriate personnel and resources needed to demonstrate operational capabilities. EOCs and other command centres are required to be activated. A Full-scale Exercise is the largest, costliest, and most complex exercise type. It may or may not include public evacuations.

STYLE	PLANNING PERIOD	DURATION	COMMENTS
Orientation Exercise	2 weeks	Hours	Individual or mixed groups
Drill	2 months	1 day	Individual technical groups generally
Tabletop Exercise	1 month	1-3 days	Single or multiple agency
Functional Exercise	> 3 months	1-5 days	Multiple Agency participation
Full-scale Exercise	>6 months	1 day/ week	Multiple Agency participation

Table 1. Example of time frames for different exercise types

### 3. EXERCISE OUTLINE

#### 3.1 GENERAL

Tsunami messages for this exercise are issued by the US NTWC and PTWC based on a hypothetical earthquake with the following hypocentre parameters:

- Origin Time 10:00:00 UTC March 26, 2014
- Latitude 36.04°N
- Longitude 10.75°W
- Magnitude 8.5 – Mw
- Depth 5 km

Note that bulletin #1 is issued with a magnitude 8.0. For very large earthquakes, the initial magnitude determination at the TWCs is commonly low. Expected impact for this event is determined from tsunami forecast models. The models indicated a significant tsunami in the Virgin Islands, Puerto Rico and Bermuda, but with less impact elsewhere. Based on the models, the exercise alert areas are limited to the Atlantic and Caribbean region, and do not include other TWC areas-of-responsibility in the Gulf of Mexico. ANNEX III provides model results.

Various levels of alert are issued by the TWCs throughout the event. Definitions of the products that will be issued by the TWCs during this exercise are provided below (Note that PTWC products differ from US NTWC products due to requirements set forth by the ICG/CARIBE-EWS).

#### **US National Tsunami Warning Center**

##### Tsunami Warning

A tsunami warning is issued when a tsunami with the potential to generate widespread inundation is imminent, expected, or occurring. Warnings alert the public that dangerous coastal flooding accompanied by powerful currents is possible and may continue for several hours after initial arrival. Warnings alert emergency management officials to take action for the entire tsunami hazard zone. Appropriate actions to be taken by local officials may include the evacuation of low-lying coastal areas, and the repositioning of ships to deep waters when there is time to safely do so. Warnings may be updated, adjusted geographically, downgraded, or cancelled. To provide the earliest possible alert, initial warnings are normally based only on seismic information.

##### Tsunami Advisory

A tsunami advisory is issued due to the threat of a potential tsunami which may produce strong currents or waves dangerous to those in or near the water. Coastal regions historically prone to damage due to strong currents induced by tsunamis are at the greatest risk. The threat may continue for several hours after the arrival of the initial wave, but significant widespread inundation is not expected for areas under an advisory. Appropriate actions to be taken by local officials may include closing beaches, evacuating harbours and marinas, and the repositioning of ships to deep waters when there is time to safely do so. Advisories are normally updated to continue the advisory, expand/contract affected areas, upgrade to a warning, or cancel the advisory.

### Tsunami Watch

A tsunami watch is issued to alert emergency management officials and the public of an event which may later impact the watch area. The watch area may be upgraded to a warning or advisory – or cancelled – based on updated information and analysis. Therefore, emergency management officials and the public should prepare to take action. Watches are normally issued based on seismic information without confirmation that a destructive tsunami is underway.

### Tsunami Information Statement (TIS)

A tsunami information statement is issued to inform emergency management officials and the public that an earthquake has occurred, or that a tsunami warning, watch or advisory has been issued for another section of the ocean. In most cases, information statements are issued to indicate there is no threat of a destructive basin wide tsunami and to prevent unnecessary evacuations as the earthquake may have been felt in coastal areas. An information statement may, in appropriate situations, caution about the possibility of destructive local tsunamis. Information statements may be re-issued with additional information, though normally these messages are not updated. However, a watch, advisory or warning may be issued for the area, if necessary, after analysis and/or updated information becomes available.

## **Pacific Tsunami Warning Center**

### Tsunami Watch

A Tsunami Watch is issued by PTWC following a large earthquake to inform that there is the potential for a destructive tsunami to impact the region declared under a watch, or to inform regarding a confirmed tsunami with the potential to cause damage to the region declared under a watch. It is the highest level of alert issued by PTWC for the Caribbean region. It is issued by PTWC solely as advice to local governments that have the responsibility and authority to issue tsunami warnings for the areas under their jurisdiction or otherwise alert and instruct the public regarding appropriate response actions. Such actions may include the evacuation of low-lying areas and the repositioning of ships and boats to deep water. Tsunami Watch messages will be issued approximately every hour with updated information including any measurements of tsunami waves and any appropriate expansion or reduction of the region under a watch until the watch is cancelled.

### Tsunami Information Bulletin (TIB)

Tsunami Information, issued by PTWC in a Tsunami Information Statement, is to inform about the occurrence of a large earthquake with little or no tsunami generating potential, either because the earthquake has insufficient size, is located too far inland to disturb the sea, is too deep within the earth to significantly displace the seafloor, or some combination of the above. In rare cases, an earthquake in this category can be accompanied by a locally destructive tsunami due to a collateral tsunamigenic phenomenon such as a landslide into the sea or an undersea slump. This product is issued solely as advice to local governments that have the responsibility and authority to alert and instruct the public regarding appropriate response actions. Supplemental tsunami information may be issued if a tsunami signal is detected on nearby gauges or if there is a significant change to the preliminary earthquake parameters.

The TWCs will not issue live messages over broadcast dissemination channels other than to issue an initial dummy message to start the exercise on 26 March 2014 at 1005 UTC. However, messages from the TWCs will be emailed to specific recipients who have

registered to receive live dissemination throughout the event (<http://www.prsn.uprm.edu/caribewave-lantex2014/registro>). The content of the dummy message is given in ANNEX IV. The dummy message will indicate that exercise participants should refer to the first message provided in this handbook. From then on, participants should follow the schedule in Table 2 to look at new messages if they are not receiving them via email or fax. Table 2 is the timeline for when messages would be issued by the TWCs if this were a real event, and can be used by EMOs to drive the exercise timing. The messages (as shown in ANNEX V) cover a 12 hour period, though in an actual event they would likely continue much longer. World Meteorological Organization (WMO) and Advanced Weather Interactive Processing System (AWIPS) headers used in the dummy message are listed in Table 3.

The US NTWC issues two official products and one experimental product each time a message is issued. The ones provided in ANNEX V are known as the public message which does not contain codes or text intended for automated systems. English and Spanish (experimental) versions of each message are provided for this exercise. The TWCs also issue additional graphical and web-based products to their web sites. PTWC issues one official product for this exercise.

In addition CARIBE-EWS Member States have an opportunity to view and exercise with the PTWC proposed CARIBE-EWS enhanced products if they choose to do so. They will be made available along with a more detailed description of their content and how they should be used at least a month before the exercise on the following website: <http://www.caribewave.info>

Participants may elect to exercise using their own timelines in order to achieve their particular objectives. For example, a particular EMO's Exercise Controller may choose to feed the TWC bulletins into the exercise at times of their own choosing, or alternatively put them in envelopes with the time they must be opened written on each, with each key participant agency having their own set of envelopes. The messages, provided in ANNEX V, will facilitate this approach.

EMOs are welcome to modify estimated arrival times and/or wave amplitudes to suit their exercise, for example, to have the tsunami arrive sooner and with larger amplitude. Other exercise injects, such as tsunami damage reports, are also encouraged.

### 3.2 MASTER SCHEDULE (EXERCISE SCRIPT)

#### 3.2.1 Scenario Timeline

Tsunami generated by a magnitude 8.5 earthquake with epicentre at 36.04°N, 10.75°W occurring on 26 March 2014 at 1000 UTC.

Date (UTC)	Time (UTC)	US NTWC Message				PTWC Message				
		#	Type	Dummy	Email	#	Type	Dummy	Email	
03/26/2014	1000		----- Earthquake Occurs -----							
03/26/2014	1005		Dummy	Yes	Yes		Dummy	Yes	Yes	
03/26/2014	1005	01	TIS #1	No	Yes	01	Watch	No	Yes	



Date (UTC)	Time (UTC)	US NTWC Message				PTWC Message			
		#	Type	Dummy	Email	#	Type	Dummy	Email
03/26/2014	1103	02	Watch	No	Yes	02	Watch	No	Yes
03/26/2014	1204	03	Watch	No	Yes	03	Watch	No	Yes
03/26/2014	1300	04	Watch	No	Yes	04	Watch	No	Yes
03/26/2014	1400	05	Adv/Warn	No	Yes	05	Watch	No	Yes
03/26/2014	1500	06	Adv/Warn	No	Yes	06	Watch	No	Yes
03/26/2014	1602	07	Adv/Warn	No	Yes	07	Watch	No	Yes
03/26/2014	1703	08	Adv/Warn	No	Yes	08	Watch	No	Yes
03/26/2014	1805	09	Adv/Warn	No	Yes	09	Watch	No	Yes
03/26/2014	1905	10	Adv/Warn	No	Yes	10	Watch	No	Yes
03/26/2014	2002	11	Adv	No	Yes	11	Watch	No	Yes
03/27/2014	2101	12	Adv	No	Yes	12	Watch	No	Yes
03/27/2014	2201	13	Adv	No	Yes	13	Watch	No	Yes
03/27/2014	2255	14	Can	No	Yes				
03/26/2014	2300	14				14	Watch	No	Yes
03/26/2014	2355	15				15	Can	No	Yes

Table 2. Scenario timelines

The initial dummy message will be disseminated over all standard TWC broadcast channels as listed in Table 3. This is being issued to test communications with EMOs and Tsunami Warning Focal Points, and to start the exercise. All messages will be disseminated over a special email list to provide the messages in real time to organizations requesting this service. To request this service, please register online at <http://www.prsn.uprm.edu/caribewave-lantex2014/registro>. Please note that the US NTWC dummy message is being issued with the WMO ID WEXX30 PAAQ and AWIPS ID TSUATE, and the PTWC dummy messages with the WMO ID WECA41 PHEB and AWIPS ID TSUCAX.

A real tsunami warning/watch/advisory issued for an event as described would likely last many hours longer than this exercise. The exercise is being tailored to complete within a compressed time frame.

### 3.2.2 TWC Message Types

TIS Tsunami Information Statement  
 Warn Tsunami Warning  
 Watch Tsunami Watch  
 Adv Tsunami Advisory  
 Can Cancellation

Dummy:

Yes Dummy Issued  
 No Dummy Not Issued

Email:

Yes Message disseminated via special email list  
 No Message not disseminated via special email list

### 3.2.3 Product Types

Product types issued for dummy message with transmission methods.

CENTER	WMO ID	AWIPS ID	NWWS	GTS	EMWIN	AISR	FAX	EMAIL
NTWC	WEXX30 PAAQ	TSUATE	Yes	Yes	Yes	Yes	Yes	Yes
PTWC	WECA41 PHEB	TSUCAX	Yes	Yes	Yes	Yes	Yes	Yes

Table 3. Product types

NWWS NOAA Weather Wire Service  
 GTS Global Telecommunications System  
 EMWIN Emergency Manager’s Weather Information Network  
 AISR Aeronautical Information System Replacement

The ICG/NEAMTWS is responsible for the coordination of the Tsunami Early Warning and Mitigation System in the North-Eastern Atlantic, the Mediterranean and Connected Seas and has considered participating in the exercise. The Instituto Português do Mar e da Atmosfera (IPMA), a proposed Candidate Tsunami Watch Provider (CTWP) for the Northeast Atlantic, will contribute to the exercise and provide messages, according to the procedures adopted within the NEAMTWS, which will be made available on a IPMA server. The French Tsunami Warning Center (**CENALT**, CENTre d’Alerte aux Tsunamis), which is a Candidate Tsunami Watch Provider, will also possibly be issuing test products for this event. For an update on their participation, please refer to the [www.caribewave.info](http://www.caribewave.info).

On 26 March 2014 at 1400 UTC, a separate Gulf of Mexico tsunami exercise (Lantex 14) will also take place. This exercise, organized under the framework of the US NTHMP, is open to CARIBE-EWS countries (more information is available at [www.caribewave.info](http://www.caribewave.info)).

### 3.3 ACTIONS IN CASE OF A REAL EVENT

In the case of a real event occurring during the exercise, the TWCs will issue their normal messages for the event. Such messages will be given full priority and a decision will be made by the TWCs whether to issue the dummy message and to send email messages to selected recipients. Smaller earthquakes that only trigger a Tsunami Information Statement will not disrupt the exercise. All documentation and correspondence relating to this exercise is to be clearly identified as “Caribe Wave/Lantex 14” and “Exercise.”

### 3.4 PROCEDURE FOR FALSE ALARM

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

### 3.5 RESOURCES

Although EMOs will have advance notice of the exercise and may elect to stand up a special dedicated shift to allow normal core business to continue uninterrupted, it is requested that realistic resource levels be deployed in order to reflect some of the issues that are likely to be faced in a real event.

Questions on the exercise can be addressed to:

PERSON	TELEPHONE #	EMAIL
Christa von Hillebrandt-Andrade, CARIBE-EWS and CaribeWave 14 Chair; NWS CTWP Manager	787-249-8307	<a href="mailto:christa.vonh@noaa.gov">christa.vonh@noaa.gov</a>
Victor Hugo Cano, Vice-Chair		<a href="mailto:cano.victor.hugo@gmail.com">cano.victor.hugo@gmail.com</a>
Dawn French, Vice-Chair	758-452-3802	<a href="mailto:director@nemo.gov.lc">director@nemo.gov.lc</a>
Philippe Sarron		<a href="mailto:philippe.sarron@interieur.gouv.fr">philippe.sarron@interieur.gouv.fr</a>
Jean Marie Saurel, Chair WG1	596-596-784146	<a href="mailto:saurel@ipgp.fr">saurel@ipgp.fr</a>
Narcisse Zahibo, Chair WG2	590-590-615590	<a href="mailto:narcisse.zahibo@univ-ag.fr">narcisse.zahibo@univ-ag.fr</a>
Alison Brome	246-438-7575	<a href="mailto:a.brome@unesco.org">a.brome@unesco.org</a>
Kerry Hinds, Chair WG4	246-438-7575	<a href="mailto:zero@caribsurf.com">zero@caribsurf.com</a>
Bernardo Aliaga, Technical Secretary	33-1-45683980	<a href="mailto:b.aliaga@unesco.org">b.aliaga@unesco.org</a>
Ronald Jackson, Director CDEMA	246-425-0386	<a href="mailto:Ronald.Jackson@cdema.org">Ronald.Jackson@cdema.org</a>
Noel Barrillas, CEPREDENAC	502-2362-1981-83	<a href="mailto:nbarillas@sica.int">nbarillas@sica.int</a>

PERSON	TELEPHONE #	EMAIL
Melinda Bailey, NWS Southern Region	817-978-1100x107	<a href="mailto:melinda.bailey@noaa.gov">melinda.bailey@noaa.gov</a>
Wilfredo Ramos, PREMA Rep.	787-724-0124 ext. 20036	<a href="mailto:wramos@prema.pr.govaemead.gobierno.pr">wramos@prema.pr.govaemead.gobierno.pr</a>
Paul Whitmore NTWC Director	907-745-4212	<a href="mailto:paul.whitmore@noaa.gov">paul.whitmore@noaa.gov</a>
James Waddell NTWC Rep.	907-745-4212	<a href="mailto:james.waddell@noaa.gov">james.waddell@noaa.gov</a>
Charles McCreery PTWC Director	808-689-8207	<a href="mailto:charles.mccreery@noaa.gov">charles.mccreery@noaa.gov</a>
Gerard Fryer PTWC Rep.	808-689-8207	<a href="mailto:gerard.fryer@noaa.gov">gerard.fryer@noaa.gov</a>
Víctor Huérfano PRSN Director	787-833-8433	<a href="mailto:victor@prsn.uprm.edu">victor@prsn.uprm.edu</a>
Fernando Carrilho IPMA	+351 218 447 000	<a href="mailto:fernando.carrilho@ipma.pt">fernando.carrilho@ipma.pt</a> <a href="mailto:pt.ntwc@ipma.pt">pt.ntwc@ipma.pt</a>

Table 3. Table of contacts

### 3.6 MEDIA ARRANGEMENTS

One advantage in conducting exercises is that it provides a venue to promote awareness of the exercise topic. Many residents along the Caribbean and Northwestern Atlantic coasts may not realise that a tsunami warning system exists for their region, let alone the proper response. Communities may wish to invite their local media to the exercise to promote local awareness of the tsunami hazard. For all levels of exercising but especially for those countries executing full-scale and functional exercises, the media can also provide support in building awareness leading up to the exercise. The media should be provided with available informational brochures prepared by the local, regional and international agencies. It is also a good opportunity to distribute the PRSN Tsunami Media Guide (<http://www.prsn.uprm.edu/mediakit/>), as well as the Seismic Research Unit Tsunami and other Coastal Hazards WS Media Information Kit (<http://www.uwiseismic.com>) as additional guidance. ANNEX VI contains a sample press release which can be adapted as necessary.

## 4. POST-EXERCISE EVALUATION

All participating agencies are requested to provide brief feedback on the exercise. This feedback will assist the ICG/CARIBE-EWS, NTHMP, and NOAA in the evaluation of Caribe Wave 14 and the development of subsequent exercises, and help response agencies document lessons learned.

The deadline for completing the evaluation is **11 April 2014** at Survey Monkey through the following link: <https://www.surveymonkey.com/s/VHM92KG>.

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ANNEX I

**STANDARD OPERATING PROCEDURES  
FOR TSUNAMI WARNING FOCAL POINTS  
AND TSUNAMI EMERGENCY RESPONSE OPERATIONS**

END-TO-END TSUNAMI WARNING – AN OVERVIEW

September 2008 (updated 2012)

UNESCO/IOC Tsunami Unit, Paris, with the International Tsunami Information Centre (ITIC), Hawaii

The overview summarizes end-to-end tsunami warning. In event time, it covers activities for event monitoring, detection, threat evaluation and warning, alert dissemination, emergency response, and public action. An effective tsunami warning system is achieved when all people in vulnerable coastal communities are prepared to respond appropriately and in a timely manner upon recognizing that a potential destructive tsunami may be approaching. Meeting this challenge requires round the-clock monitoring with real-time data streams and rapid alerting, as well as prepared communities, a strong emergency management system, and close and effective cooperation and coordination between all stakeholders. To warn without preparing, and further, to warn without providing a public safety message that is understandable to every person about what to do and where to go, is clearly useless. While alerts are the technical trigger for warning, any system will ultimately be judged by its ability to save lives, and by whether people move out of harm's way before a big tsunami hits. Towards these ends, education and awareness are clearly essential activities for successful early warning.

End-to-end tsunami warning involves a number of stakeholders who must be able to work in coordination and with good understanding of each other's roles, responsibilities, authorities, and action during a tsunami event. Planning and preparedness, and practicing in advance of the real event, helps to familiarize agencies and their staff with the steps and decision-making that need to be carried out without hesitation in a real emergency. Tsunami resilience is built upon a community's preparedness in tsunami knowledge, planning, warning, and awareness. All responding stakeholders should have a basic understanding of earthquake and tsunami science, and be familiar with warning concepts, detection, threat evaluation, and alerting methods, and emergency response and evacuation operations. The key components, requirements, and operations to enable an effective and timely warning and evacuation are covered in the following topics of end to-end tsunami warning:

- Tsunami science and hazard assessment.
- Tsunami disaster reduction strategy and community-based disaster risk management.
- Stakeholders, roles and responsibilities, and Standard Operating Procedures (SOPs) and their linkages.
- End-to-end tsunami response and SOPs
- Tsunami Warning Focal Point (TWFP) and Tsunami Warning Centre (TWC) operations.
- Tsunami Emergency Response (TER) operations.
- Public alerting.
- The role of media.
- Evacuation and signage.

- Use of exercises to build preparedness.
- Awareness and education.

To ensure the long-term sustainability of a tsunami warning system, it should be noted that:

- Tsunamis should be part of an all-hazards (natural and man-made) strategy.
- System redundancy is required to ensure reliability.
- Clearly understood TWFP/TWC and TER public safety messages are essential. Media partnerships for warning, as well as preparedness, are important.
- Awareness must be continuous forever. Tsunamis are low frequency, high impact natural disasters that are also unpredictable.
- National, provincial, and local Tsunami Coordination Committees ensure stakeholder coordination and implementation of the end-to-end tsunami warning.

For specific details and algorithms, and for actual descriptions of tsunami warning and emergency response operations, including data networks and data collection, methods of evaluation and criteria for action, products issued and methods of communication of alerts, and evacuation, original source references or plans should be consulted. These are the high-level system descriptions or concepts of operation, agency operations manuals, and user's guides of each regional and national system.

For a description of the Caribbean tsunami warning system, as provided by the Pacific Tsunami Warning Center and the US National Tsunami Warning Center, consult IOC document *Communication Plan for the Interim Tsunami Advisory Information Service to the Caribbean Sea and Adjacent Regions* (version December 2007 (ICG/CARIBE-EWS-II/11)). General information of the IOC global tsunami warning systems and on tsunami mitigation and preparedness can be accessed at the following websites:

- IOC: <http://www.ioc-tsunami.org>
- IOC/ITIC: <http://www.tsunamiwave.org>
- NWS/CTWP: <http://www.srh.noaa.gov/srh/ctwp/>

### Training

In order to assist countries in strengthening their warning systems, the IOC has compiled and developed a Training Manual containing reference, best practice, decision support tools, and guidance materials summarizing key components, requirements, and operations to enable an effective and timely warning and evacuation against tsunamis. The materials were developed under the lead of ITIC and in close partnership with experienced practitioners in tsunami warning and emergency response, and have been used in numerous training courses since the 2004 Indian Ocean tsunami.

The Manual includes session plans, lectures (in PowerPoint), exercises, and multi-media materials. Together, they represent part of the IOC's collaborative contribution to national capacity building and training on end-to-end tsunami warning and tsunami standard operating procedures to countries of the Indian Ocean, Pacific, Southeast Asia, and the Caribbean. For more information, please contact Dr Laura Kong, ITIC Director, ([laura.kong@noaa.gov](mailto:laura.kong@noaa.gov)), Mr Bernardo Aliaga, IOC ([b.aliaga@unesco.org](mailto:b.aliaga@unesco.org)), Dr Christa von Hillebrandt, US NWS Caribbean Tsunami Warning Program ([christa.vonh@noaa](mailto:christa.vonh@noaa)), or Dr Alison Brome ([a.brome@unesco.org](mailto:a.brome@unesco.org)).

The tables presented below can be used as a guide for preparing the timeline for the exercise.

DISTANT 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. Distant tsunami wave arrival time expected more than 3 hours after earthquake origin time.	Earthquake Origin Time: <u>0000</u>	
	Agency(ies) / Department(s):	Time (mins):
Tsunami message received	_____ _____	<u>+10</u>
Call in staff	_____ _____	<u>+15</u>
Activate emergency centers/ Notify public safety agencies	_____ _____	<u>+25</u>
Coordinate sounding of public sirens and alarm notifications	_____ _____	<u>+45</u>
Initiate media notifications and evacuation announcements	_____ _____	<u>+45</u>
Initiate evacuation of people away from coast (Tsunami Evacuation Maps)	_____ _____	<u>Tbd</u>
Put boats/ships out to sea if wave impact time permits	_____ _____	<u>Tbd</u>
Setup road-blocks and evacuation routes	_____ _____	<u>Tbd</u>
Guide people through traffic points to shelter	_____ _____	<u>Tbd</u>
Initiate recall of disaster response workers	_____ _____	<u>Tbd</u>
Open and operate refuge centers	_____	<u>Tbd</u>

DISTANT 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. Distant tsunami wave arrival time expected more than 3 hours after earthquake origin time.	Earthquake Origin Time: <u>0000</u>	
	Agency(ies) / Department(s):	Time (mins):
	_____	
Prepare to start electrical generators	_____ _____	<u>Tbd</u>
If your facility is located in a tsunami evacuation zone: <ul style="list-style-type: none"> <li>• Prepare to shutoff utilities (e.g. electrical, gas, water)</li> <li>• Protect key equipment (e.g. computers)</li> <li>• Remove key documents (e.g. financial, personal information)</li> </ul>	_____ _____	<u>Tbd</u>
Determine if tsunami has caused coastal damage / injuries and the need to initiate search and rescue operations	_____ _____	<u>Tbd</u>
Determine when to declare the “all clear”	_____ _____	<u>Tbd</u>
Prepare for post tsunami impact operations	_____ _____	<u>tbd</u>
Do roll call for workers—— and volunteers——	_____ _____	<u>tbd</u>

Table I-1. Actions, agencies, and timing for a distant tsunami event

EVENT	TIME (WHEN)	ACTIVITY (WHAT INFO)	AUTHORITY (WHO)	MEDIUM (HOW)	TO (TARGET)
EQ Occurs					
Tsunami might come					
Evacuate					
Tsunami comes					
Safe to return					

Table I-2. Table to be used as a guide for timing, actions, authority, communication means, and target audiences in case of a tsunami event.



## ANNEX II

### EXAMPLE TABLE TOP EXERCISE

#### Table top Exercise Development Steps

Original Source: California Office of Emergency Services

A Tabletop Exercise is a planned activity in which local officials, key staff, and organizations with disaster management responsibilities are presented with simulated emergency situations. It is usually informal and slow paced, in a conference room environment, and is designed to elicit constructive discussion from the participants to assess plans, policies, and procedures. Participants will examine and attempt to resolve problems, based on plans and procedures, if they exist. Individuals are encouraged to discuss decisions in depth based on their organization's Standard Operating Procedures (SOPs), with emphasis on slow-paced problem solving, rather than rapid, real time decision-making. An Exercise Controller (moderator) introduces a simulated tsunami scenario to participants via written message, simulated telephone or radio call, or by other means. Exercise problems and activities (injects) are further introduced. Participants conduct group discussions where resolution is generally agreed upon and then summarized by a group leader. A Tabletop Exercise should have specific goals, objectives, and a scenario narrative.

The following provides a Tabletop Exercise structure with sample text and example.

1. Vulnerability Analysis: Problem Statement

*An example for a hurricane might be:*

*Due to the recent Hurricane incidents that the Southeast region of the United States, an awareness of the threat risk involved in these disasters has become more apparent, therefore the need for evacuation system is vital. The state of Louisiana continues its ongoing tasks of planning, preparing, and training for Hurricane preparedness.*

2. Purpose (Mission): Intent, what you plan to accomplish (Policy Statement)

*An example for a hurricane might be:*

*The State of Louisiana has realized and recognizes the need for a more efficient and effective evacuation system, and is responding with this Comprehensive Exercise Plan. These events will include seminars, workshops, a Tabletop exercise, functional and full-scale exercises within an 18-month time frame, under the State Homeland Security grant program.*

3. Scope:
- Exercise Activities
  - Agencies Involved
  - Hazard Type
  - Geographic Impact Area

*An example might be:*

*Emergency Services coordinators at local levels of government will identify representative jurisdictions from each of the six mutual aid regions located throughout the State to participate as host jurisdictions in a series of disaster preparedness exercises. These host jurisdictions will develop a progressive series of exercises each type building upon the previous type of exercise. The process will begin with a vulnerability analysis for each*

*jurisdiction and continue through a progression of exercise activities including: orientation seminars, workshops, and Tabletop and functional exercises. The eventual objective of these activities will be to reduce disaster impacts to their populations and city infrastructure. All events will be evaluated utilizing US Homeland Security Exercise Evaluation Program (HSEEP) after action reporting (AAR) standards. Steps for corrective actions will be made a part of the after action process and report. Surrounding jurisdictions in the mutual aid area will act as exercise design team members, exercise evaluators, or exercise observers for the purpose of information transfer to increase their operational readiness. Jurisdictions will participate on a rotational basis every two years to provide the opportunity for multiple jurisdiction participation.*

4. Goals and Objectives: Criteria for good objectives: Think SMART

- Simple (concise)
- Measurable
- Achievable (can this be done during the exercise?)
- Realistic (and challenging)
- Task Oriented (oriented to functions)

*An example might be:*

*Comprehensive Exercise Program (CEP) Objectives*

- *To improve operational readiness.*
- *To improve multi-agency coordination and response capabilities for effective disaster response.*
- *To identify communication pathways and problem areas pre-event between local jurisdictions and operational area, regional and state emergency operations centres.*
- *To establish uniform methods for resource ordering, tracking, and supply for agencies involved at all levels of government.*

5. Narrative:

The Narrative should describe the following:

- Triggering emergency/disaster event
- Describe the environment at the time the exercise begins
- Provide necessary background information
- Prepare participants for the exercise
- Discovery, report: how do you find out?
- Advance notice?
- Time, location, extent or level of damage

6. Evaluation:

The Evaluation should describe the following:

- Objectives based,
- Train evaluation teams,
- Develop evaluation forms.

7. After Action Report (AAR)

The AAR should be compiled using the evaluation reports.

8. Improvement Plan (IP)

The IP should reduce vulnerabilities.

## ANNEX III

### SCENARIO DESCRIPTION

The objective of this exercise is to simulate an event which impacts a large portion of the Caribbean and US/Canadian Atlantic region and reflects a possible scenario.

The earthquake hypocentre parameters are (based on Barkan et al., 2009, source #5):

- Origin Time 10:00:00 UTC March 26, 2014
- Latitude 36.04°N
- Longitude 10.75°W
- Magnitude 8.5 – Mw
- Depth 5 km
- Strike 345
- Dip 40
- Slip 90
- Length 200 km
- Width 80 km
- Average Slip 12.9 m
- Hypocenter Located on the up dip edge of the fault in the middle of the fault length

Tsunami models were computed using the Short-term Inundation Forecasting of Tsunamis (SIFT), Alaska Tsunami Forecast Model (ATFM), and Rapid Inundation Forecasting of Tsunamis (RIFT) model to generate expected impacts throughout the region. The models indicated a tsunami between one and two meters along the Puerto Rico north coast, the Virgin Islands, and Bermuda, and less than one meter along most of the United States and Canadian east coast.

Sea floor displacement formulae were used to generate the uplift, and the models computed tsunami propagation from the source to produce forecast tsunami heights throughout the Caribbean as well as along the U.S. and Canadian Atlantic coasts. Sample model outputs are shown in Figures III–1 to III–11 with forecast maximum heights above sea level provided in the Table III–1. Note that the highest tsunami elevation reached on the shore could be double that of the model outputs since model outputs are determined at the coast.

A real tsunami warning/watch/advisory issued for an event like this would likely last many hours longer than this exercise. The exercise is being tailored to complete within a compressed time frame.

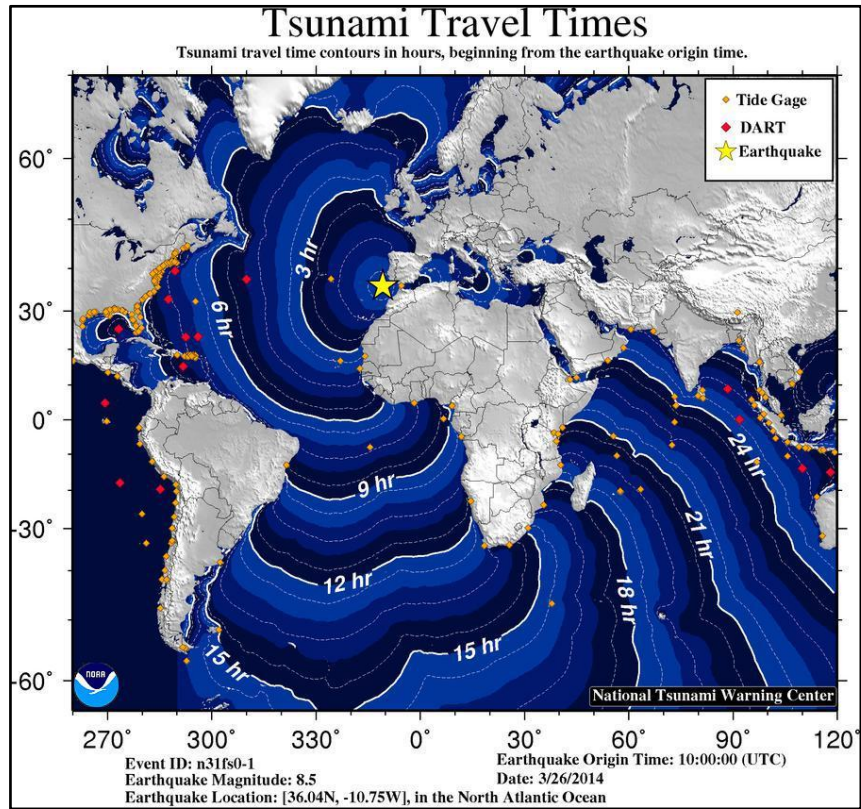
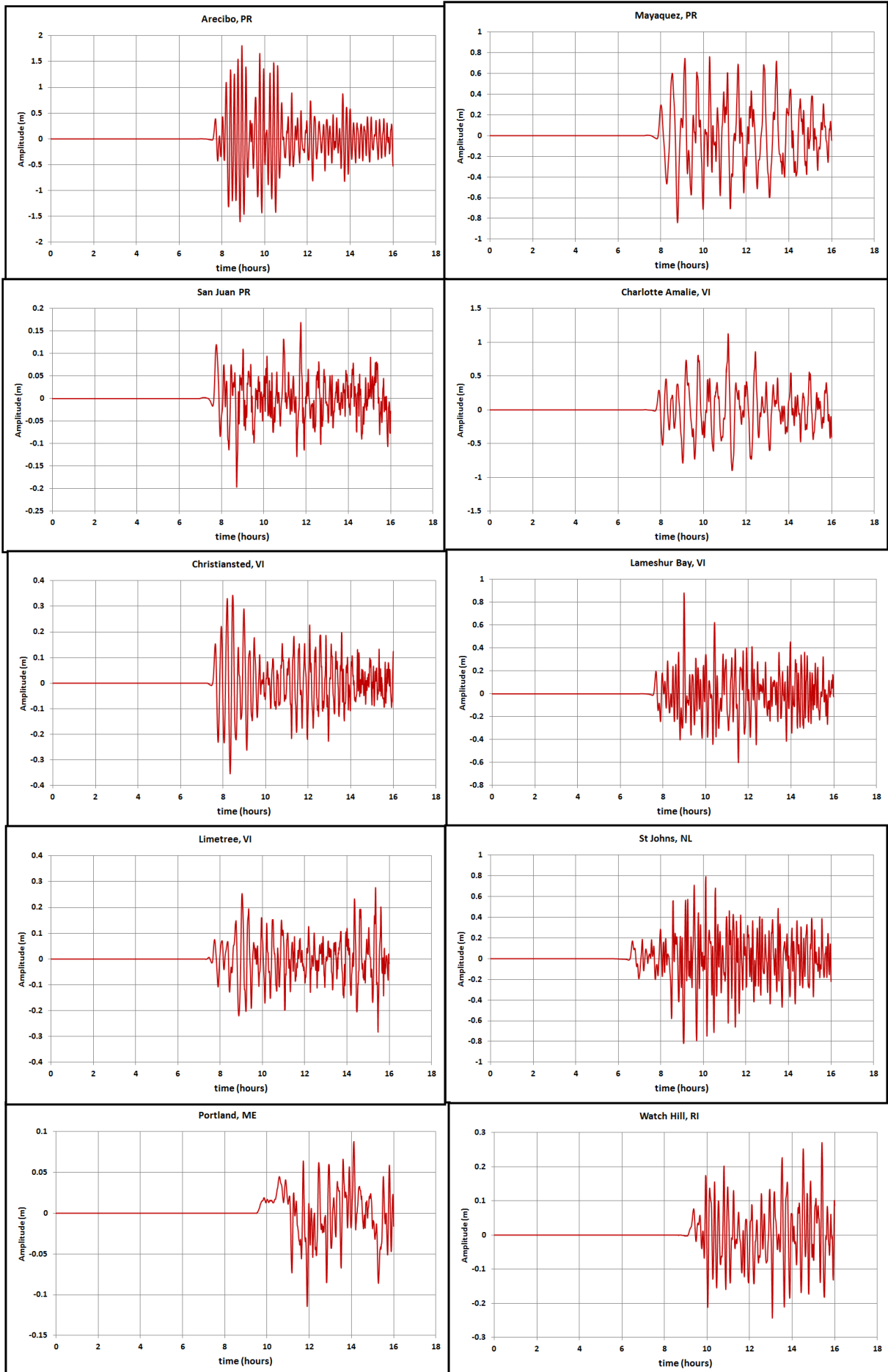


Figure III–1. Tsunami travel time map for Exercise Caribe Wave/Lantex14.





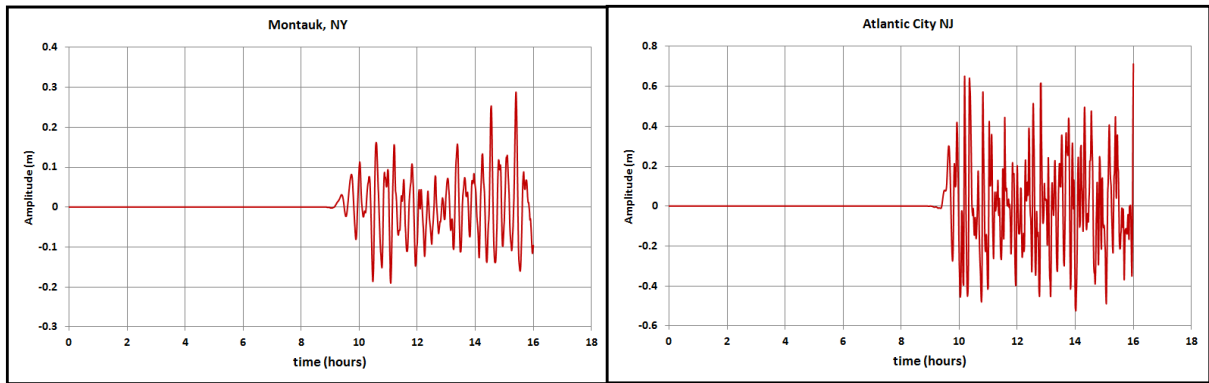


Figure III–2. Tsunami variations over time at several sites along the US and Canadian coast. The vertical axes are in metres and the horizontal axes in hours from origin time.

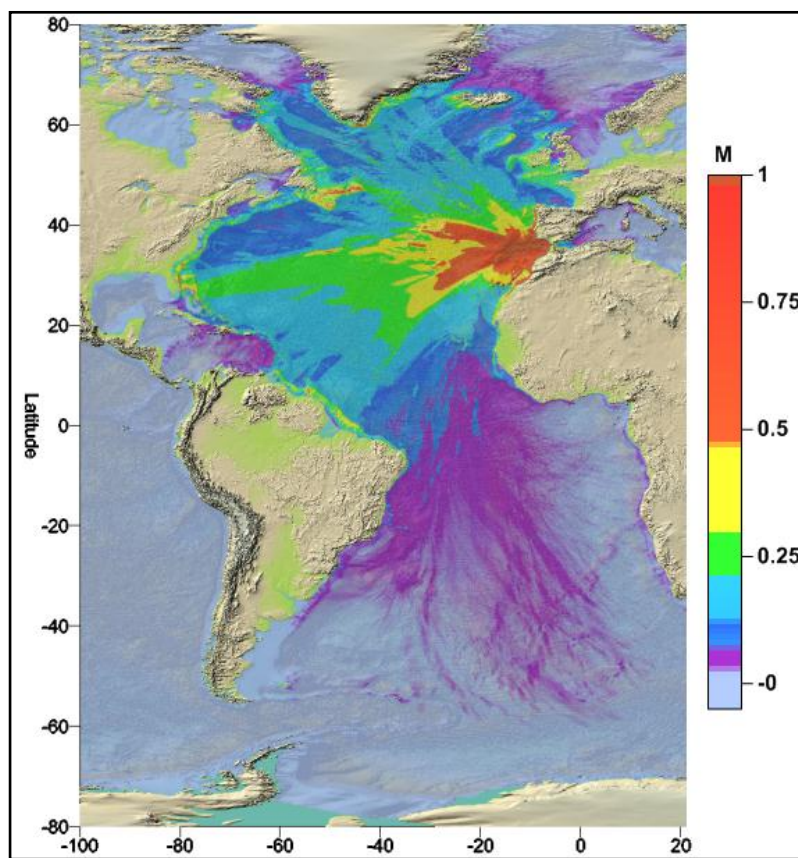


Figure III–3. Forecast maximum wave height within the Atlantic

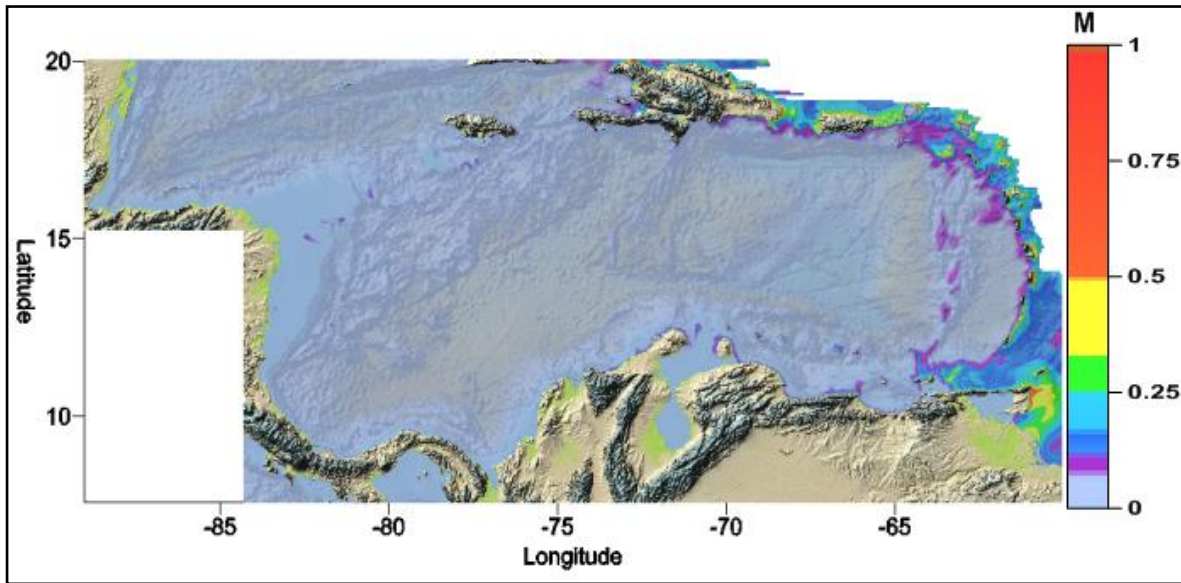


Figure III-4. Forecast maximum wave height in the Caribbean

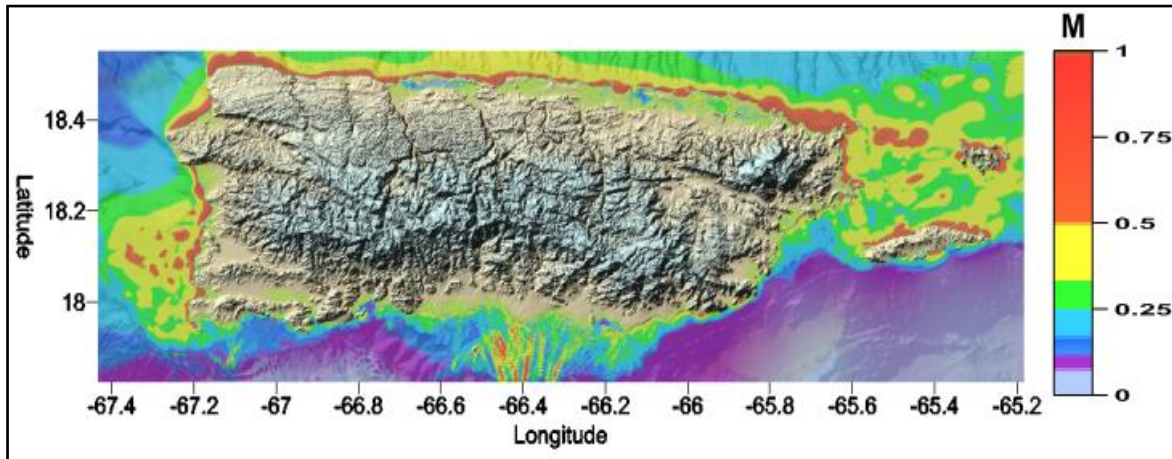


Figure III-5. Forecast maximum wave height along the Puerto Rico coast

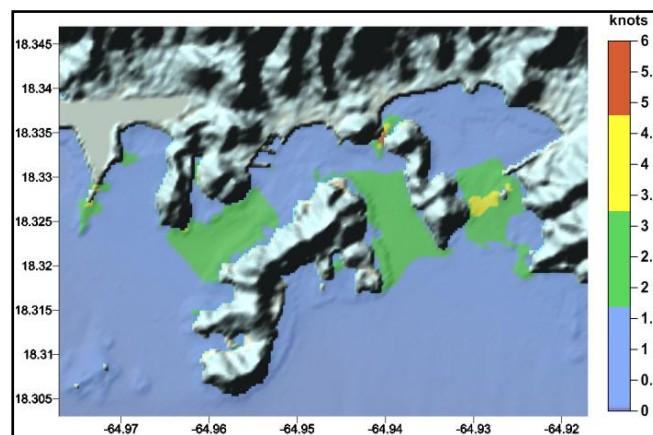


Figure III-6. Forecast maximum currents in Charlotte Amalie, United States Virgin Islands (USVI).



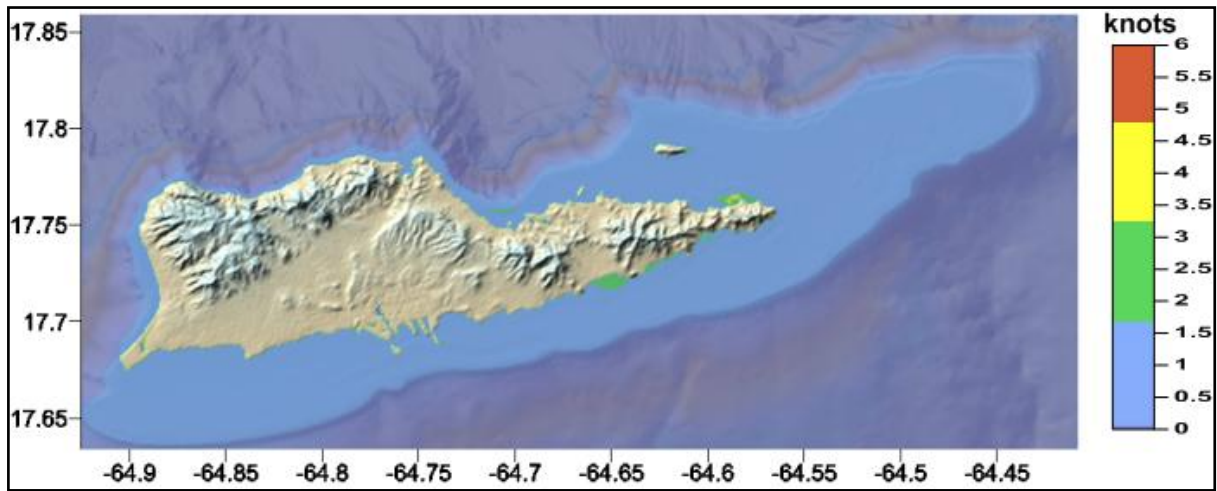


Figure III-7. Forecast maximum currents in St. Croix, USVI

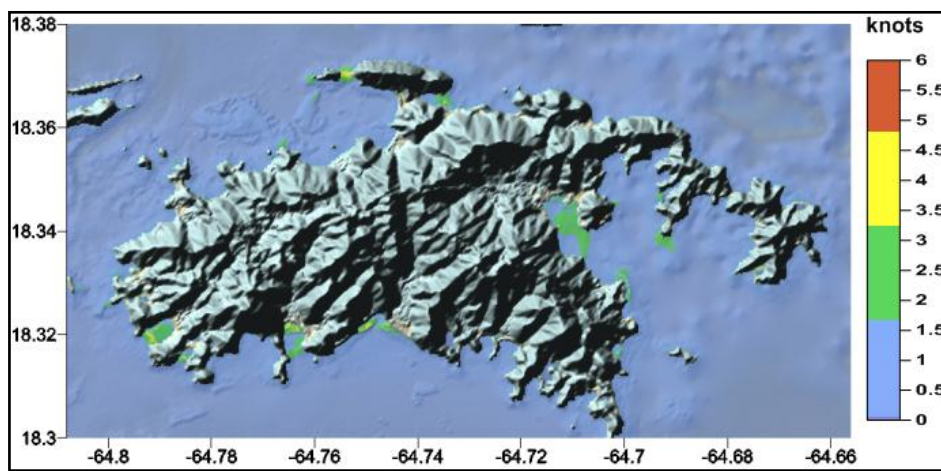


Figure III-8. Forecast maximum currents in St. John, USVI

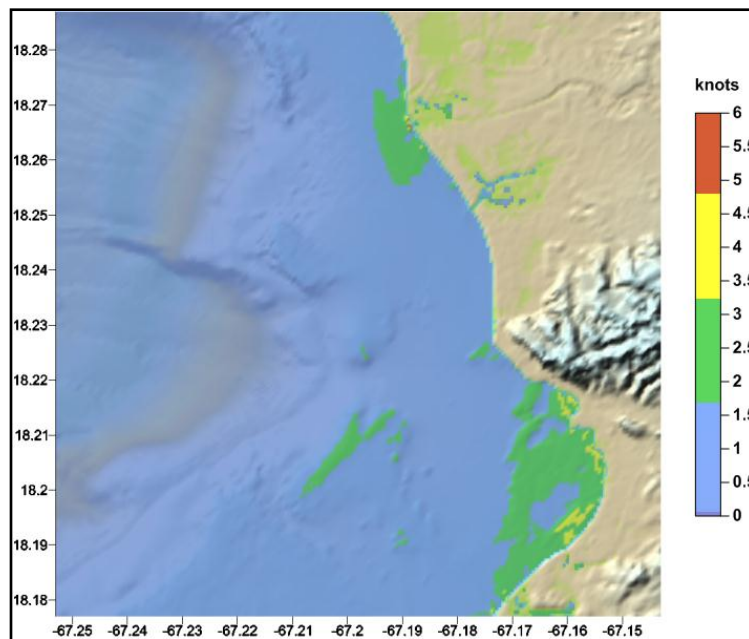


Figure III-9. Forecast maximum currents in Mayaguez, Puerto Rico (PR)

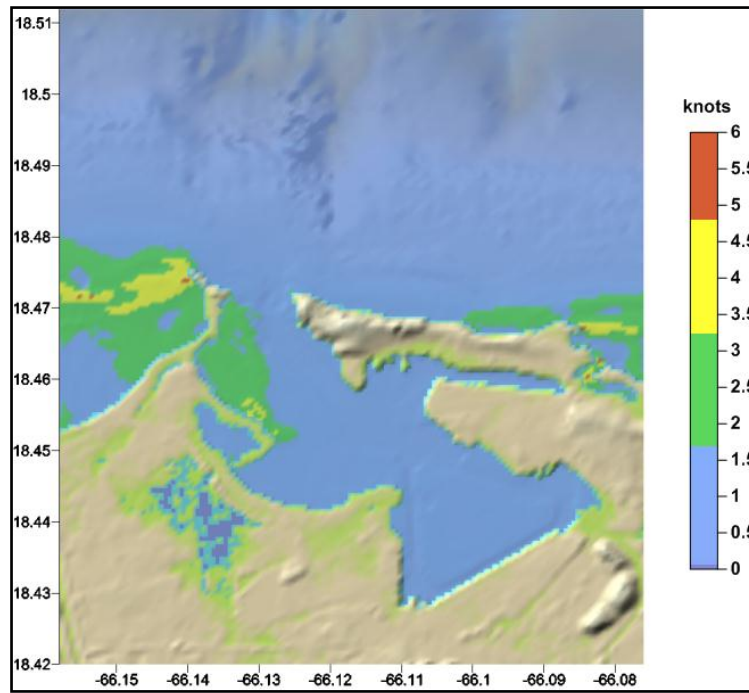


Figure III–10. Forecast maximum currents in San Juan, PR.

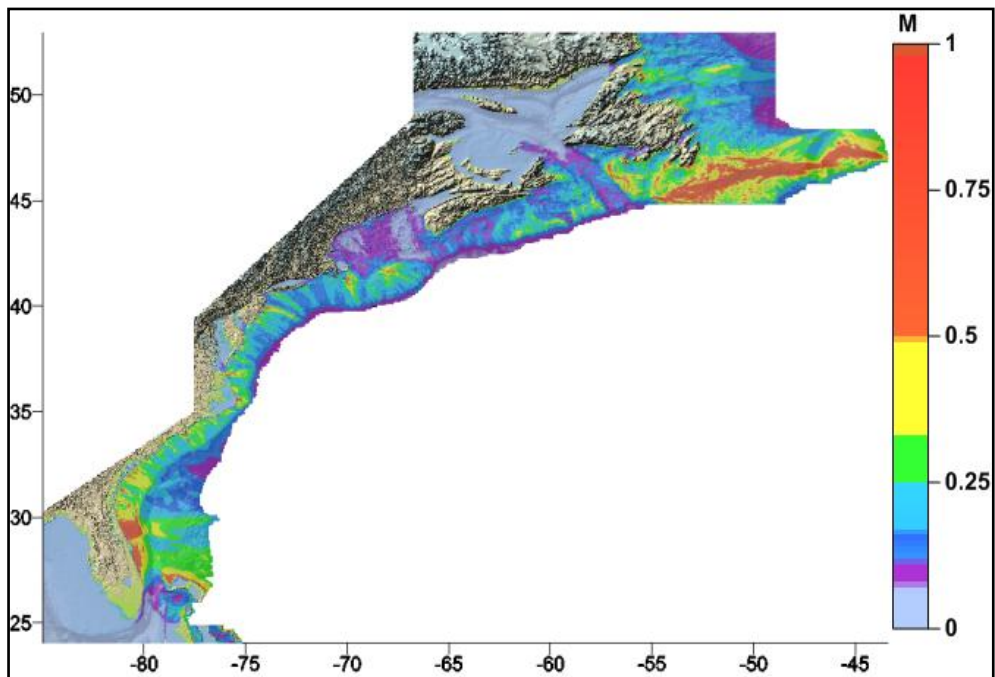


Figure III–11. Forecast maximum wave height along the United States and Canada East coast.

LOCATION	TRAVEL TIME (HR:MIN)	MAX AMPLITUDE	LEADING EDGE
D44401	05:03	0.43 FT/0.13 M	elevation
NANORTALIK GL	05:46	1.57 FT/0.48 M	elevation
TRISTAN DE CUNHA UK	06:08	1.12 FT/0.34 M	elevation
ANGMAGSALIK GL	06:13	1.74 FT/0.53 M	elevation
ST JOHNS NL	06:40	2.59 FT/0.79 M	elevation
BERMUDA	06:57	3.90 FT/1.19 M	elevation
D41421	07:03	0.49 FT/0.15 M	elevation
D44402	07:24	0.30 FT/0.09 M	elevation
D41420	07:30	0.49 FT/0.15 M	elevation
CHRISTIANSTED USVI	07:38	1.12 FT/0.34 M	elevation
D41424	07:38	0.36 FT/0.11 M	elevation
LAMESHUR BAY USVI	07:40	2.88 FT/0.88 M	elevation
ARECIBO PR	07:42	5.94 FT/1.81 M	elevation
LIMETREE USVI	07:44	0.92 FT/0.28 M	elevation
SAN JUAN PR	07:44	0.56 FT/0.17 M	recession
CHARLOTTE AMALIE USVI	07:55	3.71 FT/1.13 M	elevation
FAJARDO PR	07:55	2.95 FT/0.90 M	elevation
MAYAGUEZ PR	08:01	2.49 FT/0.76 M	elevation
D42407	08:14	0.13 FT/0.14 M	elevation
DUCK NC	09:16	1.41 FT/0.43 M	elevation
WATCH HILL RI	09:22	0.89 FT/0.27 M	elevation
MONTAUK NY	09:24	0.95 FT/0.29 M	elevation
OCEAN CITY MD	09:25	0.52 FT/0.16 M	elevation
ATLANTIC CITY NJ	09:38	2.34 FT/0.71 M	elevation
JUPITER FL	09:49	2.10 FT/0.64 M	elevation
PORTLAND ME	09:51	0.30 FT/0.09 M	elevation
VIRGINIA BEACH VA	09:53	1.67 FT/0.51 M	elevation
WRIGHTSVILLE NC	10:18	1.54 FT/0.47 M	elevation
DAYTONA FL	10:46	3.58 FT/1.09 M	recession
KEY WEST FL	11:07	0.07 FT/0.02 M	elevation

Table III–1. Coastal height forecast for event. The height is the elevation of the tsunami above sea level. The height is a measure offshore; the onshore elevations may be double those of the coastal height.

ANNEX IV

**TWC DUMMY MESSAGES**

US NTWC

WEXX30 PAAQ 201305

TSUATE

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST

NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK

205 AM AST WED MAR 26 2014

...CARIBE WAVE/LANTEX14 PORTUGAL EVENT TSUNAMI EXERCISE MESSAGE.  
REFER TO NTWC MESSAGE 1 IN THE EXERCISE HANDBOOK. THIS IS AN EXERCISE  
ONLY...

THIS MESSAGE IS BEING USED TO START THE CARIBE WAVE/LANTEX14 PORTUGAL  
EVENT TSUNAMI EXERCISE. THIS WILL BE THE ONLY EXERCISE MESSAGE  
BROADCAST FROM THE NATIONAL TSUNAMI WARNING CENTER EXCLUDING  
SPECIAL EMAIL MESSAGES DISCUSSED IN THE HANDBOOK. THE HANDBOOK IS  
AVAILABLE AT THE WEB SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV). THE EXERCISE PURPOSE IS  
TO PROVIDE EMERGENCY MANAGEMENT A REALISTIC SCENARIO TO TEST  
TSUNAMI RESPONSE PLANS.

THIS IS ONLY AN EXERCISE.

\$\$

PTWC

WECA41 PHEB 201305

TSUCAX

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST

NWS PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS

ISSUED AT 1005Z 26 MAR 2014

...CARIBE WAVE/LANTEX14 PORTUGAL EVENT 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 CARIBE WAVE/LANTEXWAVE14  
PORTUGAL EVENT TSUNAMI EXERCISE. 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 [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV). THE EXERCISE PURPOSE IS TO PROVIDE EMERGENCY MANAGEMENT A REALISTIC SCENARIO TO TEST TSUNAMI RESPONSE PLANS.

THIS IS ONLY AN EXERCISE.

\$\$

ANNEX V

**US TWC EXERCISE MESSAGES**

The following messages, created for the Exercise Caribe Wave/Lantex 14, are representative of the official standard products issued by the US NTWC and PTWC during a large magnitude 8.5 earthquake and tsunami originating 270 miles West of Gibraltar at 36.04oN, 10.75oW. During a real event, the TWCs 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.

US NTWC Messages

US NTWC Message #1

WEXX32 PAAQ 261005  
TIBATE

PUBLIC TSUNAMI INFORMATION STATEMENT NUMBER 1  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
605 AM EDT WED MAR 26 2014

... THIS IS A TSUNAMI INFORMATION STATEMENT FOR THE U.S. AND CANADA  
EAST COASTS/ GULF OF MEXICO STATES/PUERTO RICO/ THE U.S. VIRGIN  
ISLANDS AND THE BRITISH VIRGIN ISLANDS...

EVALUATION

-----

- \* EARTHQUAKES OF THIS SIZE ARE KNOWN TO GENERATE TSUNAMIS POTENTIALLY DANGEROUS TO COASTS OUTSIDE THE SOURCE REGION.
- \* THE U.S. NATIONAL TSUNAMI WARNING CENTER IS ANALYZING THE EVENT TO DETERMINE THE LEVEL OF DANGER.
- \* MORE INFORMATION WILL BE ISSUED AS IT BECOMES AVAILABLE.
- \* THIS EARTHQUAKE HAS THE POTENTIAL TO GENERATE A DESTRUCTIVE TSUNAMI IN THE SOURCE REGION.

PRELIMINARY EARTHQUAKE PARAMETERS

-----

- \* MAGNITUDE 8.0
- \* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014
- \* COORDINATES 36.0 NORTH 10.8 WEST
- \* DEPTH 3 MILES
- \* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

-----

- \* MESSAGES WILL BE ISSUED HOURLY TO KEEP YOU INFORMED OF THE

PROGRESS OF THIS EVENT.

- \* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR ADDITIONAL INFORMATION.
- \* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

\$\$

US NTWC Message #2

WEXX32 PAAQ 261103  
TIBATE

PUBLIC TSUNAMI MESSAGE NUMBER 2  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
703 AM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE MODIFIED ALERT AREAS.  
UPDATES IN THIS MESSAGE INCLUDE A REVISED MAGNITUDE.

...A TSUNAMI WATCH IS NOW IN EFFECT...

WARNINGS/ADVISORIES/WATCHES - UPDATED

-----  
TSUNAMI WATCH IN EFFECT FOR...

- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THE LEVEL OF TSUNAMI DANGER IS BEING EVALUATED. FURTHER INFORMATION WILL BE PROVIDED IN SUPPLEMENTARY MESSAGES.

IMPACTS FOR TSUNAMI WATCH AREAS

- 
- \* EXPECTED IMPACT IS UNKNOWN AT THIS TIME.
  - \* THE WATCH WILL BE UPGRADED OR CANCELED AT LEAST TWO HOURS BEFORE EXPECTED IMPACT.

RECOMMENDED ACTIONS - UPDATED

- \* IF YOU ARE IN A WATCH AREA – STAY ALERT FOR FURTHER INSTRUCTIONS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

SITE	FORECAST START OF OF TSUNAMI
* LABRADOR BATTLE HARBOR	1355 NDT MAR 26
* NEWFOUNDLAND BONAVISTA	1356 NDT MAR 26
SAINT LAWRENCE	1440 NDT MAR 26
* BRITISH VIRGIN ISLANDS ROADTOWN	1318 AST MAR 26
* U.S. VIRGIN IS. CHRISTIANSTED	1316 AST MAR 26
CHARLOTTE AMALIE	1346 AST MAR 26
* PUERTO RICO SAN JUAN	1320 AST MAR 26
MAYAGUEZ	1338 AST MAR 26
* NOVA SCOTIA SCATARIE IS.	1418 ADT MAR 26
LOCKEPORT	1429 ADT MAR 26
* NORTH CAROLINA CAPE HATTERAS	1415 EDT MAR 26
* NEW YORK MONTAUK	1441 EDT MAR 26
MANHATTAN	1617 EDT MAR 26
* NEW BRUNSWICK GRAND MANAN IS.	1554 ADT MAR 26
* MARYLAND OCEAN CITY	1425 EDT MAR 26
* MASSACHUSETTS NANTUCKET IS.	1512 EDT MAR 26
BOSTON	1557 EDT MAR 26

\* NEW JERSEY  
ATLANTIC CITY 1513 EDT MAR 26

\* VIRGINIA  
VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE  
PORTLAND 1525 EDT MAR 26

\* FLORIDA  
MIAMI 1538 EDT MAR 26  
MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA  
MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA  
SAVANNAH 1704 EDT MAR 26

PRELIMINARY EARTHQUAKE PARAMETERS - UPDATED

-----  
\* MAGNITUDE 8.5  
\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDINATES 36.0 NORTH 10.8 WEST  
\* DEPTH 3 MILES  
\* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

-----  
\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.  
  
\* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.  
  
\* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Message #3

WEXX30 PAAQ 261204  
TSUATE

BULLETIN

PUBLIC TSUNAMI MESSAGE NUMBER 3  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
804 AM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI WATCH REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

-----  
TSUNAMI WATCH IN EFFECT FOR...

- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THE LEVEL OF TSUNAMI DANGER IS BEING EVALUATED. FURTHER INFORMATION WILL BE PROVIDED IN SUPPLEMENTARY MESSAGES.

IMPACTS FOR TSUNAMI WATCH AREAS

- 
- \* EXPECTED IMPACT IS UNKNOWN AT THIS TIME.
  - \* THE WATCH WILL BE UPGRADED OR CANCELED AT LEAST TWO HOURS BEFORE EXPECTED IMPACT.

RECOMMENDED ACTIONS

- 
- \* IF YOU ARE IN A WATCH AREA – STAY ALERT FOR FURTHER INSTRUCTIONS.
  - \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
  - \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

-----

SITE	FORECAST START OF OF TSUNAMI
----	-----
* LABRADOR BATTLE HARBOR	1355 NDT MAR 26

\* NEWFOUNDLAND

BONAVISTA 1356 NDT MAR 26  
SAINT LAWRENCE 1440 NDT MAR 26

\* BRITISH VIRGIN ISLANDS

ROADTOWN 1318 AST MAR 26

\* U.S. VIRGIN IS.

CHRISTIANSTED 1316 AST MAR 26  
CHARLOTTE AMALIE 1346 AST MAR 26

\* PUERTO RICO

SAN JUAN 1320 AST MAR 26  
MAYAGUEZ 1338 AST MAR 26

\* NOVA SCOTIA

SCATARIE IS. 1418 ADT MAR 26  
LOCKEPORT 1429 ADT MAR 26

\* NORTH CAROLINA

CAPE HATTERAS 1415 EDT MAR 26

\* NEW YORK

MONTAUK 1441 EDT MAR 26  
MANHATTAN 1617 EDT MAR 26

\* NEW BRUNSWICK

GRAND MANAN IS. 1554 ADT MAR 26

\* MARYLAND

OCEAN CITY 1425 EDT MAR 26

\* MASSACHUSETTS

NANTUCKET IS. 1512 EDT MAR 26  
BOSTON 1557 EDT MAR 26

\* NEW JERSEY

ATLANTIC CITY 1513 EDT MAR 26

\* VIRGINIA

VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE

PORTLAND 1525 EDT MAR 26

\* FLORIDA

MIAMI 1538 EDT MAR 26  
MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA

MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA

SAVANNAH

1704 EDT MAR 26

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE  
TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

\* MAGNITUDE 8.5  
\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDINATES 36.0 NORTH 10.8 WEST  
\* DEPTH 3 MILES  
\* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.
- \* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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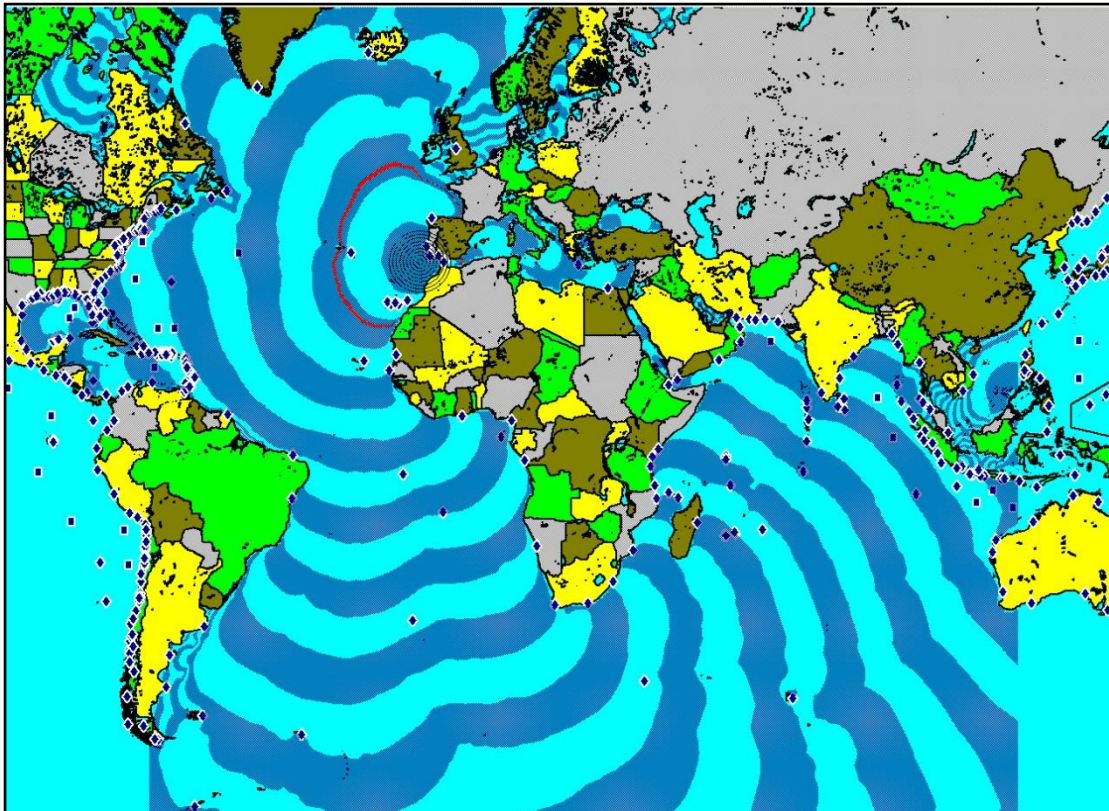


Figure V-1. Tsunami wavefront (red) shown on a Travel Time map at time of Message 3.  
Each colour changes represents one hours of travel time.

US NTWC Bulletin #4

WEXX30 PAAQ 261300  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 4  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
900 AM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI WATCH REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

-----  
TSUNAMI WATCH IN EFFECT FOR...

\* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA -  
NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW  
JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND -  
MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK -  
NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO  
FLORIDA TO CAPE CHIDLEY LABRADOR

\* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE  
BRITISH VIRGIN ISLANDS.

\* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THE LEVEL OF TSUNAMI DANGER IS BEING EVALUATED. FURTHER INFORMATION WILL BE PROVIDED IN SUPPLEMENTARY MESSAGES.

IMPACTS FOR TSUNAMI WATCH AREAS  
-----

- \* EXPECTED IMPACT IS UNKNOWN AT THIS TIME.
- \* THE WATCH WILL BE UPGRADED OR CANCELED AT LEAST TWO HOURS BEFORE EXPECTED IMPACT.

RECOMMENDED ACTIONS  
-----

- \* IF YOU ARE IN A WATCH AREA – STAY ALERT FOR FURTHER INSTRUCTIONS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY  
-----

SITE ----	FORECAST START OF OF TSUNAMI -----
* LABRADOR BATTLE HARBOR	1355 NDT MAR 26
* NEWFOUNDLAND BONAVISTA SAINT LAWRENCE	1356 NDT MAR 26 1440 NDT MAR 26
* BRITISH VIRGIN ISLANDS ROADTOWN	1318 AST MAR 26
* U.S. VIRGIN IS. CHRISTIANSTED CHARLOTTE AMALIE	1316 AST MAR 26 1346 AST MAR 26
* PUERTO RICO SAN JUAN MAYAGUEZ	1320 AST MAR 26 1338 AST MAR 26
* NOVA SCOTIA SCATARIE IS. LOCKEPORT	1418 ADT MAR 26 1429 ADT MAR 26
* NORTH CAROLINA CAPE HATTERAS	1415 EDT MAR 26

\* NEW YORK  
MONTAUK 1441 EDT MAR 26  
MANHATTAN 1617 EDT MAR 26

\* NEW BRUNSWICK  
GRAND MANAN IS. 1554 ADT MAR 26

\* MARYLAND  
OCEAN CITY 1425 EDT MAR 26

\* MASSACHUSETTS  
NANTUCKET IS. 1512 EDT MAR 26  
BOSTON 1557 EDT MAR 26

\* NEW JERSEY  
ATLANTIC CITY 1513 EDT MAR 26

\* VIRGINIA  
VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE  
PORTLAND 1525 EDT MAR 26

\* FLORIDA  
MIAMI 1538 EDT MAR 26  
MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA  
MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA  
SAVANNAH 1704 EDT MAR 26

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE  
TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

\* MAGNITUDE 8.5

\* ORIGIN TIME           0600 EDT MAR 26 2014  
                              0500 CDT MAR 26 2014  
                              0600 AST MAR 26 2014  
                              1000 UTC MAR 26 2014  
\* COORDINATES         36.0 NORTH 10.8 WEST  
\* DEPTH                 3 MILES  
\* LOCATION             NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

- 
- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
  
  - \* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.
  
  - \* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Bulletin #5

WEXX30 PAAQ 261400  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 5  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
1000 AM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE MODIFIED ALERT AREAS.  
UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...A TSUNAMI WARNING IS NOW IN EFFECT...

...A TSUNAMI ADVISORY IS NOW IN EFFECT...

WARNINGS/ADVISORIES/WATCHES - UPDATED

-----  
TSUNAMI WARNING IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND -

MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK -  
NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO  
FLORIDA TO CAPE CHIDLEY LABRADOR

- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC  
AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

#### IMPACTS FOR TSUNAMI WARNING AREAS

-----

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL  
CURRENTS ARE POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER  
TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### IMPACTS FOR TSUNAMI ADVISORY AREAS

-----

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES  
DANGEROUS  
TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL  
STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI  
ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### RECOMMENDED ACTIONS - UPDATED

-----

- \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF  
HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT  
EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS  
INDICATE IT IS SAFE TO DO SO.

#### FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

-----

SITE	FORECAST START OF OF TSUNAMI
----	-----

* LABRADOR BATTLE HARBOR	1355 NDT MAR 26
-----------------------------	-----------------

\* NEWFOUNDLAND  
BONAVISTA 1356 NDT MAR 26  
SAINT LAWRENCE 1440 NDT MAR 26

\* BRITISH VIRGIN ISLANDS  
ROADTOWN 1318 AST MAR 26

\* U.S. VIRGIN IS.  
CHRISTIANSTED 1316 AST MAR 26  
CHARLOTTE AMALIE 1346 AST MAR 26

\* PUERTO RICO  
SAN JUAN 1320 AST MAR 26  
MAYAGUEZ 1338 AST MAR 26

\* NOVA SCOTIA  
SCATARIE IS. 1418 ADT MAR 26  
LOCKEPORT 1429 ADT MAR 26

\* NORTH CAROLINA  
CAPE HATTERAS 1415 EDT MAR 26

\* NEW YORK  
MONTAUK 1441 EDT MAR 26  
MANHATTAN 1617 EDT MAR 26

\* NEW BRUNSWICK  
GRAND MANAN IS. 1554 ADT MAR 26

\* MARYLAND  
OCEAN CITY 1425 EDT MAR 26

\* MASSACHUSETTS  
NANTUCKET IS. 1512 EDT MAR 26  
BOSTON 1557 EDT MAR 26

\* NEW JERSEY  
ATLANTIC CITY 1513 EDT MAR 26

\* VIRGINIA  
VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE  
PORTLAND 1525 EDT MAR 26

\* FLORIDA  
MIAMI 1538 EDT MAR 26  
MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA  
MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA  
SAVANNAH 1704 EDT MAR 26

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE  
TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

\* MAGNITUDE 8.5  
\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDINATES 36.0 NORTH 10.8 WEST  
\* DEPTH 3 MILES  
\* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.
- \* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Bulletin #6

WEXX30 PAAQ 261500  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 6  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
1100 AM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI WARNING REMAINS IN EFFECT...

...THE TSUNAMI ADVISORY REMAINS IN EFFECT...

#### WARNINGS/ADVISORIES/WATCHES

##### ----- TSUNAMI WARNING IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.

##### TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

#### IMPACTS FOR TSUNAMI WARNING AREAS

- ##### -----
- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS ARE POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
  - \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### IMPACTS FOR TSUNAMI ADVISORY AREAS

- ##### -----
- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
  - \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
  - \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### RECOMMENDED ACTIONS

- ##### -----
- \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.



- \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

SITE	FORECAST START OF OF TSUNAMI
* LABRADOR	
BATTLE HARBOR	1355 NDT MAR 26
* NEWFOUNDLAND	
BONAVISTA	1356 NDT MAR 26
SAINT LAWRENCE	1440 NDT MAR 26
* BRITISH VIRGIN ISLANDS	
ROADTOWN	1318 AST MAR 26
* U.S. VIRGIN IS.	
CHRISTIANSTED	1316 AST MAR 26
CHARLOTTE AMALIE	1346 AST MAR 26
* PUERTO RICO	
SAN JUAN	1320 AST MAR 26
MAYAGUEZ	1338 AST MAR 26
* NOVA SCOTIA	
SCATARIE IS.	1418 ADT MAR 26
LOCKEPORT	1429 ADT MAR 26
* NORTH CAROLINA	
CAPE HATTERAS	1415 EDT MAR 26
* NEW YORK	
MONTAUK	1441 EDT MAR 26
MANHATTAN	1617 EDT MAR 26
* NEW BRUNSWICK	
GRAND MANAN IS.	1554 ADT MAR 26
* MARYLAND	
OCEAN CITY	1425 EDT MAR 26

\* MASSACHUSETTS  
NANTUCKET IS. 1512 EDT MAR 26  
BOSTON 1557 EDT MAR 26

\* NEW JERSEY  
ATLANTIC CITY 1513 EDT MAR 26

\* VIRGINIA  
VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE  
PORTLAND 1525 EDT MAR 26

\* FLORIDA  
MIAMI 1538 EDT MAR 26  
MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA  
MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA  
SAVANNAH 1704 EDT MAR 26

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE  
TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

\* MAGNITUDE 8.5

\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014

\* COORDINATES 36.0 NORTH 10.8 WEST

\* DEPTH 3 MILES

\* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

- 
- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
  - \* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.
  - \* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Bulletin #7

WEXX30 PAAQ 261602  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 7  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
1202 PM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE REVISED FORECAST INFORMATION.  
UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI WARNING REMAINS IN EFFECT...

...THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

-----  
TSUNAMI WARNING IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

IMPACTS FOR TSUNAMI WARNING AREAS

-----  
\* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS ARE POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.

\* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### IMPACTS FOR TSUNAMI ADVISORY AREAS

-----

\* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.

\* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.

\* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### RECOMMENDED ACTIONS

-----

\* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.

\* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.

\* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.

\* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.

\* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

#### FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

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SITE	FORECAST START OF OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT	OBSERVED MAX TSUNAMI HEIGHT
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\* LABRADOR  
BATTLE HARBOR            1355 NDT MAR 26

\* NEWFOUNDLAND  
BONAVISTA                1356 NDT MAR 26  
SAINT LAWRENCE        1440 NDT MAR 26

\* BRITISH VIRGIN ISLANDS  
ROADTOWN                1318 AST MAR 26

\* U.S. VIRGIN IS.

CHRISTIANSTED	1316	AST MAR 26	6 HRS	01.1FT +/- 0.3
CHARLOTTE AMALIE	1346	AST MAR 26	18 HRS	03.7FT +/- 1.1
* PUERTO RICO				
SAN JUAN	1320	AST MAR 26	18 HRS	03.8FT +/- 1.1
MAYAGUEZ	1338	AST MAR 26	9 HRS	02.5FT +/- 0.8
* NOVA SCOTIA				
SCATARIE IS.	1418	ADT MAR 26		
LOCKEPORT	1429	ADT MAR 26		
* NORTH CAROLINA				
CAPE HATTERAS	1415	EDT MAR 26		
* NEW YORK				
MONTAUK	1441	EDT MAR 26		LESS THAN 1 FT
MANHATTAN	1617	EDT MAR 26		
* NEW BRUNSWICK				
GRAND MANAN IS.	1554	ADT MAR 26		
* MARYLAND				
OCEAN CITY	1425	EDT MAR 26		LESS THAN 1 FT
* MASSACHUSETTS				
NANTUCKET IS.	1512	EDT MAR 26		
BOSTON	1557	EDT MAR 26		
* NEW JERSEY				
ATLANTIC CITY	1513	EDT MAR 26	15 HRS	02.3FT +/- 0.7
* VIRGINIA				
VIRGINIA BEACH	1528	EDT MAR 26	12 HRS	01.7FT +/- 0.5
* MAINE				
PORTLAND	1525	EDT MAR 26		LESS THAN 1 FT
* FLORIDA				
MIAMI	1538	EDT MAR 26		
MELBOURNE BEACH	1635	EDT MAR 26		
JACKSONVILLE BEA	1649	EDT MAR 26		
* SOUTH CAROLINA				
MYRTLE BEACH	1636	EDT MAR 26		
CHARLESTON	1654	EDT MAR 26		
* GEORGIA				
SAVANNAH	1704	EDT MAR 26		

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED MAX TSUNAMI HEIGHT IS THE HIGHEST RECORDED WATER LEVEL ABOVE THE TIDE LEVEL UP TO THIS POINT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

\* MAGNITUDE 8.5  
\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDINATES 36.0 NORTH 10.8 WEST  
\* DEPTH 3 MILES  
\* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.
- \* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Bulletin #8

WEXX30 PAAQ 261703  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 8  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
103 PM EDT WED MAR 26 2014

THERE ARE NO NEW UPDATES IN THIS MESSAGE.

...THE TSUNAMI WARNING REMAINS IN EFFECT...

...THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

-----  
TSUNAMI WARNING IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

IMPACTS FOR TSUNAMI WARNING AREAS

- 
- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS ARE POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
  - \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

- 
- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
  - \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL

STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.

\* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS

- 
- \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

SITE	FORECAST START OF OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT	OBSERVED MAX TSUNAMI HEIGHT
----	-----	-----	-----	-----
* LABRADOR				
BATTLE HARBOR	1355 NDT MAR 26			
* NEWFOUNDLAND				
BONAVISTA	1356 NDT MAR 26			
SAINT LAWRENCE	1440 NDT MAR 26			
* BRITISH VIRGIN ISLANDS				
ROADTOWN	1318 AST MAR 26			
* U.S. VIRGIN IS.				
CHRISTIANSTED	1316 AST MAR 26	6 HRS		01.1FT +/- 0.3
CHARLOTTE AMALIE	1346 AST MAR 26	18 HRS		03.7FT +/- 1.1
* PUERTO RICO				
SAN JUAN	1320 AST MAR 26	18 HRS		03.8FT +/- 1.1
MAYAGUEZ	1338 AST MAR 26	9 HRS		02.5FT +/- 0.8
* NOVA SCOTIA				
SCATARIE IS.	1418 ADT MAR 26			
LOCKEPORT	1429 ADT MAR 26			
* NORTH CAROLINA				
CAPE HATTERAS	1415 EDT MAR 26			
* NEW YORK				



MONTAUK	1441 EDT MAR 26		LESS THAN 1 FT
MANHATTAN	1617 EDT MAR 26		
* NEW BRUNSWICK			
GRAND MANAN IS.	1554 ADT MAR 26		
* MARYLAND			
OCEAN CITY	1425 EDT MAR 26		LESS THAN 1 FT
* MASSACHUSETTS			
NANTUCKET IS.	1512 EDT MAR 26		
BOSTON	1557 EDT MAR 26		
* NEW JERSEY			
ATLANTIC CITY	1513 EDT MAR 26	15 HRS	02.3FT +/- 0.7
* VIRGINIA			
VIRGINIA BEACH	1528 EDT MAR 26	12 HRS	01.7FT +/- 0.5
* MAINE			
PORTLAND	1525 EDT MAR 26		LESS THAN 1 FT
* FLORIDA			
MIAMI	1538 EDT MAR 26		
MELBOURNE BEACH	1635 EDT MAR 26		
JACKSONVILLE BEA	1649 EDT MAR 26		
* SOUTH CAROLINA			
MYRTLE BEACH	1636 EDT MAR 26		
CHARLESTON	1654 EDT MAR 26		
* GEORGIA			
SAVANNAH	1704 EDT MAR 26		

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED MAX TSUNAMI HEIGHT IS THE HIGHEST RECORDED WATER LEVEL ABOVE THE TIDE LEVEL UP TO THIS POINT.

#### ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT

POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

-----  
\* MAGNITUDE 8.5  
\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDINATES 36.0 NORTH 10.8 WEST  
\* DEPTH 3 MILES  
\* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

-----  
\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.  
  
\* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.  
  
\* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Bulletin #9

WEXX30 PAAQ 261802  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 9  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
202 PM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI WARNING REMAINS IN EFFECT...

...THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

-----  
TSUNAMI WARNING IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.

#### TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

#### IMPACTS FOR TSUNAMI WARNING AREAS

-----

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS ARE POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### IMPACTS FOR TSUNAMI ADVISORY AREAS

-----

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### RECOMMENDED ACTIONS

-----

- \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	FORECAST START OF OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT	OBSERVED MAX TSUNAMI HEIGHT
* NEWFOUNDLAND SAINT LAWRENCE	1440 NDT MAR 26			
* BRITISH VIRGIN ISLANDS ROADTOWN	1318 AST MAR 26			
* U.S. VIRGIN IS. CHRISTIANSTED	1316 AST MAR 26	6 HRS	01.1FT +/- 0.3	01.3FT
CHARLOTTE AMALIE	1346 AST MAR 26	18 HRS	03.7FT +/- 1.1	
* PUERTO RICO SAN JUAN	1320 AST MAR 26	18 HRS	03.8FT +/- 1.1	
MAYAGUEZ	1338 AST MAR 26	9 HRS	02.5FT +/- 0.8	01.8FT
* NOVA SCOTIA SCATARIE IS.	1418 ADT MAR 26			
LOCKEPORT	1429 ADT MAR 26			
* NORTH CAROLINA CAPE HATTERAS	1415 EDT MAR 26			
* NEW YORK MONTAUK	1441 EDT MAR 26			LESS THAN 1 FT
MANHATTAN	1617 EDT MAR 26			
* NEW BRUNSWICK GRAND MANAN IS.	1554 ADT MAR 26			
* MARYLAND OCEAN CITY	1425 EDT MAR 26			LESS THAN 1 FT
* MASSACHUSETTS NANTUCKET IS.	1512 EDT MAR 26			
BOSTON	1557 EDT MAR 26			
* NEW JERSEY ATLANTIC CITY	1513 EDT MAR 26	15 HRS	02.3FT +/- 0.7	
* VIRGINIA VIRGINIA BEACH	1528 EDT MAR 26	12 HRS	01.7FT +/- 0.5	
* MAINE PORTLAND	1525 EDT MAR 26			LESS THAN 1 FT
* FLORIDA MIAMI	1538 EDT MAR 26			
MELBOURNE BEACH	1635 EDT MAR 26			

JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA

MYRTLE BEACH 1636 EDT MAR 26

CHARLESTON 1654 EDT MAR 26

\* GEORGIA

SAVANNAH 1704 EDT MAR 26

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED MAX TSUNAMI HEIGHT IS THE HIGHEST RECORDED WATER LEVEL ABOVE THE TIDE LEVEL UP TO THIS POINT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	01.7FT
MAYAGUEZ PR	1757 UTC 03-26	01.8FT
FAJARDO PR	1751 UTC 03-26	01.3FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

\* MAGNITUDE 8.5  
\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDINATES 36.0 NORTH 10.8 WEST  
\* DEPTH 3 MILES  
\* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.
- \* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Bulletin #10

WEXX30 PAAQ 261905  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 10  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
305 PM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI WARNING REMAINS IN EFFECT...

...THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

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TSUNAMI WARNING IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

IMPACTS FOR TSUNAMI WARNING AREAS

- 
- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS ARE POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER

TSUNAMI ARRIVAL.

- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	FORECAST START OF OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT	OBSERVED MAX TSUNAMI HEIGHT
* NOVA SCOTIA SCATARIE IS.	1418	ADT MAR 26		
LOCKEPORT	1429	ADT MAR 26		
* NORTH CAROLINA CAPE HATTERAS	1415	EDT MAR 26		
* NEW YORK MONTAUK	1441	EDT MAR 26		LESS THAN 1 FT
MANHATTAN	1617	EDT MAR 26		
* NEW BRUNSWICK GRAND MANAN IS.	1554	ADT MAR 26		

* MARYLAND OCEAN CITY	1425 EDT MAR 26		LESS THAN 1 FT
* MASSACHUSETTS NANTUCKET IS. BOSTON	1512 EDT MAR 26 1557 EDT MAR 26		
* NEW JERSEY ATLANTIC CITY	1513 EDT MAR 26	15 HRS	02.3FT +/- 0.7
* VIRGINIA VIRGINIA BEACH	1528 EDT MAR 26	12 HRS	01.7FT +/- 0.5
* MAINE PORTLAND	1525 EDT MAR 26		LESS THAN 1 FT
* FLORIDA MIAMI MELBOURNE BEACH JACKSONVILLE BEA	1538 EDT MAR 26 1635 EDT MAR 26 1649 EDT MAR 26		
* SOUTH CAROLINA MYRTLE BEACH CHARLESTON	1636 EDT MAR 26 1654 EDT MAR 26		
* GEORGIA SAVANNAH	1704 EDT MAR 26		

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED MAX TSUNAMI HEIGHT IS THE HIGHEST RECORDED WATER LEVEL ABOVE THE TIDE LEVEL UP TO THIS POINT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
LIMTETREE USVI	1832 UTC 03-26	01.1FT



MAYAGUEZ PR	1757 UTC 03-26	02.7FT
FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT
SAINT JOHNS CANADA	1833 UTC 03-26	02.9FT
HALIFAX CANADA	1848 UTC 03-26	01.9FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.5  
\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDINATES 36.0 NORTH 10.8 WEST  
\* DEPTH 3 MILES  
\* LOCATION NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

-----  
\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.  
  
\* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.  
  
\* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Bulletin #11

WEXX30 PAAQ 262002  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 11  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
402 PM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE MODIFIED ALERT AREAS.  
UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES - UPDATED

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TSUNAMI ADVISORY IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.
- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS - UPDATED

- \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	FORECAST START OF OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT	OBSERVED MAX TSUNAMI HEIGHT
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- \* NEW YORK  
MANHATTAN                      1617 EDT MAR 26
- \* NEW BRUNSWICK

GRAND MANAN IS.	1554	ADT	MAR 26		
* MASSACHUSETTS					
NANTUCKET IS.	1512	EDT	MAR 26		01.9FT
BOSTON	1557	EDT	MAR 26		
* NEW JERSEY					
ATLANTIC CITY	1513	EDT	MAR 26	15 HRS	02.3FT +/- 0.7 02.6FT
* VIRGINIA					
VIRGINIA BEACH	1528	EDT	MAR 26	12 HRS	01.7FT +/- 0.5 02.1FT
* MAINE					
PORTLAND	1525	EDT	MAR 26		LESS THAN 1 FT
* FLORIDA					
MIAMI	1538	EDT	MAR 26		
MELBOURNE BEACH	1635	EDT	MAR 26		
JACKSONVILLE BEA	1649	EDT	MAR 26		
* SOUTH CAROLINA					
MYRTLE BEACH	1636	EDT	MAR 26		
CHARLESTON	1654	EDT	MAR 26		
* GEORGIA					
SAVANNAH	1704	EDT	MAR 26		

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED MAX TSUNAMI HEIGHT IS THE HIGHEST RECORDED WATER LEVEL ABOVE THE TIDE LEVEL UP TO THIS POINT.

#### ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
LIMTETREE USVI	1832 UTC 03-26	01.1FT
MAYAGUEZ PR	1757 UTC 03-26	02.7FT

FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT
SAINT JOHNS CANADA	1833 UTC 03-26	02.9FT
HALIFAX CANADA	1848 UTC 03-26	01.9FT
MONTAUK NY	1912 UTC 03-26	00.9FT
OCEAN CITY MD	1919 UTC 03-26	01.1FT
NANTUCKET MA	1949 UTC 03-26	01.9FT
ATLANTIC CITY NJ	1951 UTC 03-26	02.6FT
VIRGINIA BEACH VA	1955 UTC 03-26	02.1FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

#### PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.5  
\* ORIGIN TIME 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDINATES 36.0 NORTH 10.8 WEST  
\* DEPTH 3 MILES  
\* LOCATION NORTH ATLANTIC OCEAN

#### NEXT UPDATE AND ADDITIONAL INFORMATION

-----  
\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.  
  
\* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.  
  
\* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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#### US NTWC Bulletin #12

WEXX30 PAAQ 262101  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 12  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
501 PM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI ADVISORY REMAINS IN EFFECT...

## WARNINGS/ADVISORIES/WATCHES

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### TSUNAMI ADVISORY IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.
- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

### IMPACTS FOR TSUNAMI ADVISORY AREAS

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- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

### RECOMMENDED ACTIONS

-----

- \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

### FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

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SITE	FORECAST START OF OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT	OBSERVED MAX TSUNAMI HEIGHT
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- \* FLORIDA

MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA  
MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA  
SAVANNAH 1704 EDT MAR 26

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED MAX TSUNAMI HEIGHT IS THE HIGHEST RECORDED WATER LEVEL ABOVE THE TIDE LEVEL UP TO THIS POINT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
LIMTETREE USVI	1832 UTC 03-26	01.1FT
MAYAGUEZ PR	1757 UTC 03-26	02.7FT
FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT
SAINT JOHNS CANADA	1833 UTC 03-26	02.9FT
HALIFAX CANADA	1848 UTC 03-26	01.9FT
MONTAUK NY	1912 UTC 03-26	00.9FT
OCEAN CITY MD	1919 UTC 03-26	01.1FT
NANTUCKET MA	1949 UTC 03-26	01.9FT
ATLANTIC CITY NJ	1951 UTC 03-26	02.6FT
VIRGINIA BEACH VA	1955 UTC 03-26	02.1FT
DUCK NC	2020 UTC 03-26	01.3FT
WATCH HILL RI	2033 UTC 03-26	00.7FT
PORTLAND ME	2034 UTC 03-26	00.2FT
TRIDENT PIER FL	2037 UTC 03-26	02.1FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

-----  
\* MAGNITUDE            8.5  
\* ORIGIN TIME           0600 EDT MAR 26 2014  
                             0500 CDT MAR 26 2014  
                             0600 AST MAR 26 2014  
                             1000 UTC MAR 26 2014  
\* COORDINATES         36.0 NORTH 10.8 WEST  
\* DEPTH                 3 MILES  
\* LOCATION             NORTH ATLANTIC OCEAN

NEXT UPDATE AND ADDITIONAL INFORMATION

-----  
\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.  
  
\* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.  
  
\* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Bulletin #13

WEXX30 PAAQ 262201  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 13  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
601 PM EDT WED MAR 26 2014

UPDATES IN THIS MESSAGE INCLUDE NEW OBSERVATIONS.

...THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

-----  
TSUNAMI ADVISORY IN EFFECT FOR...

- \* COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS.
  
- \* THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK -

NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM FLAMINGO  
FLORIDA TO CAPE CHIDLEY LABRADOR

- \* FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC  
AND GULF OF MEXICO - THIS IS FOR INFORMATION ONLY

IMPACTS FOR TSUNAMI ADVISORY AREAS  
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- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES  
DANGEROUS  
TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL  
STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI  
ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS  
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- \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF  
HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT  
EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS  
INDICATE IT IS SAFE TO DO SO.

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED  
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SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
LIMTETREE USVI	1832 UTC 03-26	01.1FT
MAYAGUEZ PR	1757 UTC 03-26	02.7FT
FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT



SAINT JOHNS CANADA	1833 UTC	03-26	02.9FT
HALIFAX CANADA	1848 UTC	03-26	01.9FT
MONTAUK NY	1912 UTC	03-26	00.9FT
OCEAN CITY MD	1919 UTC	03-26	01.1FT
NANTUCKET MA	1949 UTC	03-26	01.9FT
ATLANTIC CITY NJ	1951 UTC	03-26	02.6FT
VIRGINIA BEACH VA	1955 UTC	03-26	02.1FT
DUCK NC	2020 UTC	03-26	01.3FT
WATCH HILL RI	2033 UTC	03-26	00.7FT
PORTLAND ME	2034 UTC	03-26	00.2FT
TRIDENT PIER FL	2037 UTC	03-26	02.1FT
CHARLESTON SC	2037 UTC	03-26	00.4FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE  
TIDE LEVEL AT THE TIME OF MEASUREMENT.

#### PRELIMINARY EARTHQUAKE PARAMETERS

-----  
\* MAGNITUDE            8.5  
\* ORIGIN TIME           0600 EDT MAR 26 2014  
                             0500 CDT MAR 26 2014  
                             0600 AST MAR 26 2014  
                             1000 UTC MAR 26 2014  
\* COORDINATES         36.0 NORTH 10.8 WEST  
\* DEPTH                 3 MILES  
\* LOCATION             NORTH ATLANTIC OCEAN

#### NEXT UPDATE AND ADDITIONAL INFORMATION

-----  
\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.  
  
\* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE  
INFORMATION.  
  
\* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN  
ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC  
TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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#### US NTWC Bulletin #14

WEXX30 PAAQ 262255  
TSUATE

BULLETIN  
PUBLIC TSUNAMI MESSAGE NUMBER 14  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
655 PM EDT WED MAR 26 2014

...THE TSUNAMI ADVISORY IS CANCELLED...

## CANCELLATIONS

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- \* THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA – NEWFOUNDLAND AND LABRADOR FROM FLAMINGO FLORIDA TO CAPE CHIDLEY LABRADOR
- \* THE TSUNAMI WARNING IS CANCELED FOR PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS

## IMPACTS - UPDATED

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- \* TSUNAMI ACTIVITY HAS SUBSIDED ALONG THE COASTS OF PUERTO RICO... U.S. VIRGIN ISLANDS... BRITISH VIRGIN ISLANDS... AND U.S. AND CANADIAN COASTS IN THE ATLANTIC.
- \* ONGOING ACTIVITY MAY PERSIST IN SOME AREAS CAUSING STRONG CURRENTS DANGEROUS TO SWIMMERS AND BOATS.
- \* THE DETERMINATION TO RE-OCCUPY HAZARD ZONES MUST BE MADE BY LOCAL OFFICIALS.

## RECOMMENDED ACTIONS - UPDATED

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- \* DO NOT RE-OCCUPY HAZARD ZONES UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

## OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

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SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
LIMTETREE USVI	1832 UTC 03-26	01.1FT
MAYAGUEZ PR	1757 UTC 03-26	02.7FT
FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT

SAINT JOHNS CANADA	1833 UTC	03-26	02.9FT
HALIFAX CANADA	1848 UTC	03-26	01.9FT
MONTAUK NY	1912 UTC	03-26	00.9FT
OCEAN CITY MD	1919 UTC	03-26	01.1FT
NANTUCKET MA	1949 UTC	03-26	01.9FT
ATLANTIC CITY NJ	1951 UTC	03-26	02.6FT
VIRGINIA BEACH VA	1955 UTC	03-26	02.1FT
DUCK NC	2020 UTC	03-26	01.3FT
WATCH HILL RI	2033 UTC	03-26	00.7FT
PORTLAND ME	2034 UTC	03-26	00.2FT
TRIDENT PIER FL	2037 UTC	03-26	02.1FT
CHARLESTON SC	2037 UTC	03-26	00.4FT
KEY WEST FL	2104 UTC	03-26	00.3FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

ALL US EAST COAST - PUERTO RICO - USVI AND BRITISH VI LOCATIONS REPORTED WAVE HEIGHTS HAVE SUBSIDED TO LESS THAN 0.30 M.

#### NEXT UPDATE AND ADDITIONAL INFORMATION

- 
- \* THIS WILL BE THE FINAL U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGE ISSUED FOR THIS EVENT.
  - \* REFER TO THE INTERNET SITE [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) FOR MORE INFORMATION.
  - \* CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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#### US NTWC Spanish Bulletins

##### US NTWC Spanish Bulletin #1

WEXX42 PAAQ 261005  
TIBSPN

NUMERO BOLETIN INFORMATIVO TSUNAMI EXPERIMENTAL EN ESPANOL 1  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
605 AM EDT WED MAR 26 2014

... BOLETIN INFORMATIVO ACERCA DEL PELIGRO DE TSUNAMI PARA LAS COSTAS DEL ESTE DE LOS ESTADOS UNIDOS Y CANADA/ GOLFO DE MEXICO/ PUERTO RICO/ ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS...

EVALUACION

- 
- \* SE CONOCE QUE TERREMOTOS DE ESTE TAMAÑO GENERAN TSUNAMIS POTENCIALMENTE PELIGROSOS PARA COSTAS FUERA DEL LUGAR DE ORIGEN.
  - \* EL CENTRO NACIONAL DE ALERTA DE TSUNAMIS ESTA ANALIZANDO EL EVENTO PARA DETERMINAR EL NIVEL DE PELIGROSIDAD.
  - \* INFORMACION ADICIONAL SERA EMITIDA CUANDO ESTE DISPONIBLE.
  - \* ESTE TERREMOTO TIENE EL POTENCIAL DE GENERAR UN TSUNAMI DESTRUCTIVO EN EL LUGAR DE ORIGEN.

PARAMETROS PRELIMINARES DEL TERREMOTO

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* MAGNITUD	8.0
* TIEMPO ORIGEN	0600 EDT MAR 26 2014 0500 CDT MAR 26 2014 0600 AST MAR 26 2014 1000 UTC MAR 26 2014
* COORDENADAS	36.0 NORTE 10.8 OESTE
* PROFUNDIDAD	3 MILLAS
* LOCALIZACION	NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

- 
- \* SE EMITIRAN MENSAJES CADA HORA PARA INFORMAR SOBRE LA EVOLUCION DEL EVENTO.
  - \* CONSULTE EL SITIO DE INTERNET [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) PARA MAS INFORMACION.
  - \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNDIOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Spanish Bulletin #2

WEXX40 PAAQ 261103  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 2  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
703 AM EDT WED MAR 26 2014

...UNA VIGILANCIA DE TSUNAMI ESTA AHORA EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS - ACTUALIZADOS  
-----

VIGILANCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.
- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO - EL NIVEL DE PELIGROSIDAD DE TSUNAMI ESTA SIENDO EVALUADO. INFORMACION ADICIONAL SERA PROVISTA EN BOLETINES SUPLEMENTARIOS.

IMPACTOS PARA AREAS BAJO VIGILANCIA DE TSUNAMI  
-----

- \* EL IMPACTO ESPERADO SE DESCONOCE EN ESTE MOMENTO.
- \* LA VIGILANCIA SERA ELEVADA O CANCELADA POR LO MENOS DOS HORAS ANTES DEL IMPACTO ESPERADO.

ACCIONES RECOMENDADAS - ACTUALIZADAS  
-----

- \* SI SE ENCUENTRA EN UN AREA BAJO VIGILANCIA - PERMANEZCA ALERTA A INSTRUCCIONES ADICIONALES.
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.

OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI  
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LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
* LABRADOR BATTLE HARBOR	1355 NDT MAR 26
* NEWFOUNDLAND BONAVISTA	1356 NDT MAR 26
SAINT LAWRENCE	1440 NDT MAR 26

\* BRITISH VIRGIN ISLANDS

ROADTOWN 1318 AST MAR 26

\* U.S. VIRGIN IS.

CHRISTIANSTED 1316 AST MAR 26

CHARLOTTE AMALIE 1346 AST MAR 26

\* PUERTO RICO

SAN JUAN 1320 AST MAR 26

MAYAGUEZ 1338 AST MAR 26

\* NOVA SCOTIA

SCATARIE IS. 1418 ADT MAR 26

LOCKEPORT 1429 ADT MAR 26

\* NORTH CAROLINA

CAPE HATTERAS 1415 EDT MAR 26

\* NEW YORK

MONTAUK 1441 EDT MAR 26

MANHATTAN 1617 EDT MAR 26

\* NEW BRUNSWICK

GRAND MANAN IS. 1554 ADT MAR 26

\* MARYLAND

OCEAN CITY 1425 EDT MAR 26

\* MASSACHUSETTS

NANTUCKET IS. 1512 EDT MAR 26

BOSTON 1557 EDT MAR 26

\* NEW JERSEY

ATLANTIC CITY 1513 EDT MAR 26

\* VIRGINIA

VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE

PORTLAND 1525 EDT MAR 26

\* FLORIDA

MIAMI 1538 EDT MAR 26

MELBOURNE BEACH 1635 EDT MAR 26

JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA

MYRTLE BEACH 1636 EDT MAR 26

CHARLESTON 1654 EDT MAR 26

\* GEORGIA

SAVANNAH 1704 EDT MAR 26

PARAMETROS PRELIMINARES DEL TERREMOTO - ACTUALIZADOS

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\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL  
-----

- \* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.
  
- \* CONSULTE EL SITIO DE INTERNET [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) PARA MAS INFORMACION.
  
- \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNDIOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Spanish Bulletin #3

WEXX40 PAAQ 261204  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 3  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
804 AM EDT WED MAR 26 2014

...LA VIGILANCIA DE TSUNAMI PERMANECE EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS  
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VIGILANCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
  
- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.
  
- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO

Y GOLFO DE MEXICO - EL NIVEL DE PELIGROSIDAD DE TSUNAMI  
ESTA SIENDO EVALUADO. INFORMACION ADICIONAL SERA PROVISTA  
EN BOLETINES SUPLEMENTARIOS.

IMPACTOS PARA AREAS BAJO VIGILANCIA DE TSUNAMI  
-----

- \* EL IMPACTO ESPERADO SE DESCONOCE EN ESTE MOMENTO.
- \* LA VIGILANCIA SERA ELEVADA O CANCELADA POR LO MENOS DOS HORAS  
ANTES DEL IMPACTO ESPERADO.

ACCIONES RECOMENDADAS  
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- \* SI SE ENCUENTRA EN UN AREA BAJO VIGILANCIA - PERMANEZCA ALERTA  
A INSTRUCCIONES ADICIONALES.
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE  
EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.

OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI  
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LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI
* LABRADOR BATTLE HARBOR	1355 NDT MAR 26
* NEWFOUNDLAND BONAVISTA SAINT LAWRENCE	1356 NDT MAR 26 1440 NDT MAR 26
* BRITISH VIRGIN ISLANDS ROADTOWN	1318 AST MAR 26
* U.S. VIRGIN IS. CHRISTIANSTED CHARLOTTE AMALIE	1316 AST MAR 26 1346 AST MAR 26
* PUERTO RICO SAN JUAN MAYAGUEZ	1320 AST MAR 26 1338 AST MAR 26
* NOVA SCOTIA SCATARIE IS. LOCKEPORT	1418 ADT MAR 26 1429 ADT MAR 26
* NORTH CAROLINA CAPE HATTERAS	1415 EDT MAR 26



\* NEW YORK  
MONTAUK 1441 EDT MAR 26  
MANHATTAN 1617 EDT MAR 26

\* NEW BRUNSWICK  
GRAND MANAN IS. 1554 ADT MAR 26

\* MARYLAND  
OCEAN CITY 1425 EDT MAR 26

\* MASSACHUSETTS  
NANTUCKET IS. 1512 EDT MAR 26  
BOSTON 1557 EDT MAR 26

\* NEW JERSEY  
ATLANTIC CITY 1513 EDT MAR 26

\* VIRGINIA  
VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE  
PORTLAND 1525 EDT MAR 26

\* FLORIDA  
MIAMI 1538 EDT MAR 26  
MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA  
MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA  
SAVANNAH 1704 EDT MAR 26

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

PARAMETROS PRELIMINARES DEL TERREMOTO

\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014

1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL  
-----

- \* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.
- \* CONSULTE EL SITIO DE INTERNET NTRC.ARH.NOAA.GOV PARA MAS INFORMACION.
- \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET PTWC.WEATHER.GOV.

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US NTRC Spanish Bulletin #4

WEXX40 PAAQ 261300  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 4  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
900 AM EDT WED MAR 26 2014

...LA VIGILANCIA DE TSUNAMI PERMANECE EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS  
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VIGILANCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.
- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO - EL NIVEL DE PELIGROSIDAD DE TSUNAMI ESTA SIENDO EVALUADO. INFORMACION ADICIONAL SERA PROVISTA EN BOLETINES SUPLEMENTARIOS.

IMPACTOS PARA AREAS BAJO VIGILANCIA DE TSUNAMI

- \* EL IMPACTO ESPERADO SE DESCONOCE EN ESTE MOMENTO.
- \* LA VIGILANCIA SERA ELEVADA O CANCELADA POR LO MENOS DOS HORAS ANTES DEL IMPACTO ESPERADO.

ACCIONES RECOMENDADAS

- \* SI SE ENCUENTRA EN UN AREA BAJO VIGILANCIA - PERMANEZCA ALERTA A INSTRUCCIONES ADICIONALES.
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.

OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
* LABRADOR BATTLE HARBOR	1355 NDT MAR 26
* NEWFOUNDLAND BONAVISTA SAINT LAWRENCE	1356 NDT MAR 26 1440 NDT MAR 26
* BRITISH VIRGIN ISLANDS ROADTOWN	1318 AST MAR 26
* U.S. VIRGIN IS. CHRISTIANSTED CHARLOTTE AMALIE	1316 AST MAR 26 1346 AST MAR 26
* PUERTO RICO SAN JUAN MAYAGUEZ	1320 AST MAR 26 1338 AST MAR 26
* NOVA SCOTIA SCATARIE IS. LOCKEPORT	1418 ADT MAR 26 1429 ADT MAR 26
* NORTH CAROLINA CAPE HATTERAS	1415 EDT MAR 26
* NEW YORK	

MONTAUK	1441 EDT MAR 26
MANHATTAN	1617 EDT MAR 26
* NEW BRUNSWICK GRAND MANAN IS.	1554 ADT MAR 26
* MARYLAND OCEAN CITY	1425 EDT MAR 26
* MASSACHUSETTS NANTUCKET IS. BOSTON	1512 EDT MAR 26 1557 EDT MAR 26
* NEW JERSEY ATLANTIC CITY	1513 EDT MAR 26
* VIRGINIA VIRGINIA BEACH	1528 EDT MAR 26
* MAINE PORTLAND	1525 EDT MAR 26
* FLORIDA MIAMI MELBOURNE BEACH JACKSONVILLE BEA	1538 EDT MAR 26 1635 EDT MAR 26 1649 EDT MAR 26
* SOUTH CAROLINA MYRTLE BEACH CHARLESTON	1636 EDT MAR 26 1654 EDT MAR 26
* GEORGIA SAVANNAH	1704 EDT MAR 26

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA  
POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

PARAMETROS PRELIMINARES DEL TERREMOTO

* MAGNITUD	8.5
* TIEMPO ORIGEN	0600 EDT MAR 26 2014 0500 CDT MAR 26 2014 0600 AST MAR 26 2014

1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

- 
- \* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.
  - \* CONSULTE EL SITIO DE INTERNET NTWC.ARH.NOAA.GOV PARA MAS INFORMACION.
  - \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNDIOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET PTWC.WEATHER.GOV.

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US NTWC Spanish Bulletin #5

WEXX40 PAAQ 261400  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 5  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
1000 AM EDT WED MAR 26 2014

...UN AVISO DE TSUNAMI ESTA AHORA EN EFECTO...

...UNA ADVERTENCIA DE TSUNAMI ESTA AHORA EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS - ACTUALIZADOS

-----  
AVISO DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.

ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR

- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

#### IMPACTOS PARA AREAS BAJO AVISO DE TSUNAMI

-----

- \* AMPLIAS INUNDACIONES COSTERAS PELIGROSAS ACOMPAÑADAS POR FUERTES CORRIENTES SON POSIBLES Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
- \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

#### IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

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- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
- \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
- \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

#### ACCIONES RECOMENDADAS - ACTUALIZADAS

-----

- \* SI SE ENCUENTRA EN UN AREA BAJO AVISO - MUEVASE TIERRA ADENTRO A LUGARES ELEVADOS.
- \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES GENERALIZADAS PARA AREAS BAJO ADVERTENCIA
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

#### OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

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LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
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* LABRADOR BATTLE HARBOR	1355 NDT MAR 26
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\* NEWFOUNDLAND

BONAVISTA 1356 NDT MAR 26  
SAINT LAWRENCE 1440 NDT MAR 26

\* BRITISH VIRGIN ISLANDS

ROADTOWN 1318 AST MAR 26

\* U.S. VIRGIN IS.

CHRISTIANSTED 1314 AST MAR 26  
CHARLOTTE AMALIE 1344 AST MAR 26

\* PUERTO RICO

SAN JUAN 1317 AST MAR 26  
MAYAGUEZ 1336 AST MAR 26

\* NOVA SCOTIA

SCATARIE IS. 1418 ADT MAR 26  
LOCKEPORT 1429 ADT MAR 26

\* NORTH CAROLINA

CAPE HATTERAS 1415 EDT MAR 26

\* NEW YORK

MONTAUK 1441 EDT MAR 26  
MANHATTAN 1617 EDT MAR 26

\* NEW BRUNSWICK

GRAND MANAN IS. 1554 ADT MAR 26

\* MASSACHUSETTS

NANTUCKET IS. 1512 EDT MAR 26  
BOSTON 1557 EDT MAR 26

\* NEW JERSEY

ATLANTIC CITY 1513 EDT MAR 26

\* VIRGINIA

VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE

PORTLAND 1528 EDT MAR 26

\* FLORIDA

MIAMI 1536 EDT MAR 26  
MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1648 EDT MAR 26

\* SOUTH CAROLINA

MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA

SAVANNAH 1704 EDT MAR 26

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA  
POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

#### PARAMETROS PRELIMINARES DEL TERREMOTO

\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

#### PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

- \* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.
- \* CONSULTE EL SITIO DE INTERNET [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) PARA MAS INFORMACION.
- \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNDIOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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#### US NTWC Spanish Bulletin #6

WEXX40 PAAQ 261500  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 6  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
1100 AM EDT WED MAR 26 2014

...EL AVISO DE TSUNAMI PERMANECE EN EFECTO...



...LA ADVERTENCIA DE TSUNAMI PERMANECE EN EFECTO...

#### AVISOS/ADVERTENCIAS/VIGILANCIAS

##### ----- AVISO DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.

##### ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

#### IMPACTOS PARA AREAS BAJO AVISO DE TSUNAMI

- ##### -----
- \* AMPLIAS INUNDACIONES COSTERAS PELIGROSAS ACOMPAÑADAS POR FUERTES CORRIENTES SON POSIBLES Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
  - \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

#### IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

- ##### -----
- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
  - \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
  - \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

#### ACCIONES RECOMENDADAS

- ##### -----
- \* SI SE ENCUENTRA EN UN AREA BAJO AVISO - MUEVASE TIERRA ADENTRO A LUGARES ELEVADOS.
  - \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES GENERALIZADAS PARA AREAS BAJO ADVERTENCIA

- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----
* LABRADOR BATTLE HARBOR	1355 NDT MAR 26
* NEWFOUNDLAND BONAVISTA SAINT LAWRENCE	1356 NDT MAR 26 1440 NDT MAR 26
* BRITISH VIRGIN ISLANDS ROADTOWN	1318 AST MAR 26
* U.S. VIRGIN IS. CHRISTIANSTED CHARLOTTE AMALIE	1314 AST MAR 26 1344 AST MAR 26
* PUERTO RICO SAN JUAN MAYAGUEZ	1317 AST MAR 26 1336 AST MAR 26
* NOVA SCOTIA SCATARIE IS. LOCKEPORT	1418 ADT MAR 26 1429 ADT MAR 26
* NORTH CAROLINA CAPE HATTERAS	1415 EDT MAR 26
* NEW YORK MONTAUK MANHATTAN	1441 EDT MAR 26 1617 EDT MAR 26
* NEW BRUNSWICK GRAND MANAN IS.	1554 ADT MAR 26
* MASSACHUSETTS NANTUCKET IS. BOSTON	1512 EDT MAR 26 1557 EDT MAR 26
* NEW JERSEY ATLANTIC CITY	1513 EDT MAR 26

\* VIRGINIA  
VIRGINIA BEACH 1528 EDT MAR 26

\* MAINE  
PORTLAND 1528 EDT MAR 26

\* FLORIDA  
MIAMI 1536 EDT MAR 26  
MELBOURNE BEACH 1635 EDT MAR 26  
JACKSONVILLE BEA 1648 EDT MAR 26

\* SOUTH CAROLINA  
MYRTLE BEACH 1636 EDT MAR 26  
CHARLESTON 1654 EDT MAR 26

\* GEORGIA  
SAVANNAH 1704 EDT MAR 26

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA  
POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

PARAMETROS PRELIMINARES DEL TERREMOTO

\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

\* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.

\* CONSULTE EL SITIO DE INTERNET [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) PARA MAS  
INFORMACION.

\* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET PTWC.WEATHER.GOV.

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US NTWC Spanish Bulletin #7

WEXX40 PAAQ 261602  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 7  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
1202 PM EDT WED MAR 26 2014

...EL AVISO DE TSUNAMI PERMANECE EN EFECTO...

...LA ADVERTENCIA DE TSUNAMI PERMANECE EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS

-----  
AVISO DE TSUNAMI EN EFECTO PARA...

\* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.

ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

\* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR

\* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

IMPACTOS PARA AREAS BAJO AVISO DE TSUNAMI

-----  
\* AMPLIAS INUNDACIONES COSTERAS PELIGROSAS ACOMPAÑADAS POR FUERTES CORRIENTES SON POSIBLES Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.

\* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
- \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
- \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

ACCIONES RECOMENDADAS

- \* SI SE ENCUENTRA EN UN AREA BAJO AVISO - MUEVASE TIERRA ADENTRO A LUGARES ELEVADOS.
- \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES GENERALIZADAS PARA AREAS BAJO ADVERTENCIA
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI	ALTURA MAX OBSERVADA DEL TSUNAMI
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\* LABRADOR  
BATTLE HARBOR 1355 NDT MAR 26

\* NEWFOUNDLAND  
BONAVISTA 1356 NDT MAR 26  
SAINT LAWRENCE 1440 NDT MAR 26

\* BRITISH VIRGIN ISLANDS  
ROADTOWN 1318 AST MAR 26

\* U.S. VIRGIN IS.  
CHRISTIANSTED 1316 AST MAR 26 6 HRS 01.1FT +/- 0.3  
CHARLOTTE AMALIE 1346 AST MAR 26 18 HRS 03.7FT +/- 1.1

\* PUERTO RICO

SAN JUAN	1320	AST	MAR 26	18 HRS	03.8FT +/- 1.1
MAYAGUEZ	1338	AST	MAR 26	9 HRS	02.5FT +/- 0.8
* NOVA SCOTIA					
SCATARIE IS.	1418	ADT	MAR 26		
LOCKEPORT	1429	ADT	MAR 26		
* NORTH CAROLINA					
CAPE HATTERAS	1415	EDT	MAR 26		
* NEW YORK					
MONTAUK	1441	EDT	MAR 26		LESS THAN 1 FT
MANHATTAN	1617	EDT	MAR 26		
* NEW BRUNSWICK					
GRAND MANAN IS.	1554	ADT	MAR 26		
* MARYLAND					
OCEAN CITY	1425	EDT	MAR 26		LESS THAN 1 FT
* MASSACHUSETTS					
NANTUCKET IS.	1512	EDT	MAR 26		
BOSTON	1557	EDT	MAR 26		
* NEW JERSEY					
ATLANTIC CITY	1513	EDT	MAR 26	15 HRS	02.3FT +/- 0.7
* VIRGINIA					
VIRGINIA BEACH	1528	EDT	MAR 26	12 HRS	01.7FT +/- 0.5
* MAINE					
PORTLAND	1525	EDT	MAR 26		LESS THAN 1 FT
* FLORIDA					
MIAMI	1538	EDT	MAR 26		
MELBOURNE BEACH	1635	EDT	MAR 26		
JACKSONVILLE BEA	1649	EDT	MAR 26		
* SOUTH CAROLINA					
MYRTLE BEACH	1636	EDT	MAR 26		
CHARLESTON	1654	EDT	MAR 26		
* GEORGIA					
SAVANNAH	1704	EDT	MAR 26		

ALTURA MAX PRONOSTICADA DEL TSUNAMI ES EL NIVEL DE AGUA MAS ALTO ESPERADO POR ENCIMA DE LA MAREA.

LA DURACION MAXIMA DEL TSUNAMI ES EL TIEMPO APROXIMADO QUE SE ESPERA QUE EL TSUNAMI PRODUZCA CORRIENTES Y OLEAJE PELIGROSA.

LA ALTURA MAX OBSERVADA ES EL NIVEL DE AGUA MAS ALTA SOBRE LA MAREA HASTA ESTE PUNTO.

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA  
POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

PARAMETROS PRELIMINARES DEL TERREMOTO

\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

- \* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.
- \* CONSULTE EL SITIO DE INTERNET [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) PARA MAS INFORMACION.
- \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNDIOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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US NTWC Spanish Bulletin #8

WEXX40 PAAQ 261703  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 8  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK

103 PM EDT WED MAR 26 2014

...EL AVISO DE TSUNAMI PERMANECE EN EFECTO...

...LA ADVERTENCIA DE TSUNAMI PERMANECE EN EFECTO...

#### AVISOS/ADVERTENCIAS/VIGILANCIAS

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AVISO DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.

ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

IMPACTOS PARA AREAS BAJO AVISO DE TSUNAMI

- 
- \* AMPLIAS INUNDACIONES COSTERAS PELIGROSAS ACOMPAÑADAS POR FUERTES CORRIENTES SON POSIBLES Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
  - \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

- 
- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
  - \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
  - \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

ACCIONES RECOMENDADAS

- 
- \* SI SE ENCUENTRA EN UN AREA BAJO AVISO - MUEVASE TIERRA ADENTRO A LUGARES ELEVADOS.



- \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES GENERALIZADAS PARA AREAS BAJO ADVERTENCIA
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI	ALTURA MAX OBSERVADA DEL TSUNAMI
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\* LABRADOR  
BATTLE HARBOR 1355 NDT MAR 26

\* NEWFOUNDLAND  
BONAVISTA 1356 NDT MAR 26  
SAINT LAWRENCE 1440 NDT MAR 26

\* BRITISH VIRGIN ISLANDS  
ROADTOWN 1318 AST MAR 26

\* U.S. VIRGIN IS.  
CHRISTIANSTED 1316 AST MAR 26 6 HRS 01.1FT +/- 0.3  
CHARLOTTE AMALIE 1346 AST MAR 26 18 HRS 03.7FT +/- 1.1

\* PUERTO RICO  
SAN JUAN 1320 AST MAR 26 18 HRS 03.8FT +/- 1.1  
MAYAGUEZ 1338 AST MAR 26 9 HRS 02.5FT +/- 0.8

\* NOVA SCOTIA  
SCATARIE IS. 1418 ADT MAR 26  
LOCKEPORT 1429 ADT MAR 26

\* NORTH CAROLINA  
CAPE HATTERAS 1415 EDT MAR 26

\* NEW YORK  
MONTAUK 1441 EDT MAR 26 LESS THAN 1 FT  
MANHATTAN 1617 EDT MAR 26

\* NEW BRUNSWICK  
GRAND MANAN IS. 1554 ADT MAR 26

\* MARYLAND  
OCEAN CITY 1425 EDT MAR 26 LESS THAN 1 FT

* MASSACHUSETTS			
NANTUCKET IS.	1512	EDT MAR 26	
BOSTON	1557	EDT MAR 26	
* NEW JERSEY			
ATLANTIC CITY	1513	EDT MAR 26	15 HRS 02.3FT +/- 0.7
* VIRGINIA			
VIRGINIA BEACH	1528	EDT MAR 26	12 HRS 01.7FT +/- 0.5
* MAINE			
PORTLAND	1525	EDT MAR 26	LESS THAN 1 FT
* FLORIDA			
MIAMI	1538	EDT MAR 26	
MELBOURNE BEACH	1635	EDT MAR 26	
JACKSONVILLE BEA	1649	EDT MAR 26	
* SOUTH CAROLINA			
MYRTLE BEACH	1636	EDT MAR 26	
CHARLESTON	1654	EDT MAR 26	
* GEORGIA			
SAVANNAH	1704	EDT MAR 26	

ALTURA MAX PRONOSTICADA DEL TSUNAMI ES EL NIVEL DE AGUA MAS ALTO ESPERADO POR ENCIMA DE LA MAREA.

LA DURACION MAXIMA DEL TSUNAMI ES EL TIEMPO APROXIMADO QUE SE ESPERA QUE EL TSUNAMI PRODUZCA CORRIENTES Y OLEAJE PELIGROSA.

LA ALTURA MAX OBSERVADA ES EL NIVEL DE AGUA MAS ALTA SOBRE LA MAREA HASTA ESTE PUNTO.

#### OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

#### PARAMETROS PRELIMINARES DEL TERREMOTO

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\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

- \* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.
- \* CONSULTE EL SITIO DE INTERNET NTCW.ARH.NOAA.GOV PARA MAS INFORMACION.
- \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET PTWC.WEATHER.GOV.

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US NTCW Spanish Bulletin #9

WEXX40 PAAQ 261802  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 9  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
202 PM EDT WED MAR 26 2014

...EL AVISO DE TSUNAMI PERMANECE EN EFECTO...

...LA ADVERTENCIA DE TSUNAMI PERMANECE EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS

-----  
AVISO DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.

ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA -

NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW  
JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND -  
MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK -  
NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO  
FLORIDA HASTA CAPE CHIDLEY LABRADOR

- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO  
Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

#### IMPACTOS PARA AREAS BAJO AVISO DE TSUNAMI

-----

- \* AMPLIAS INUNDACIONES COSTERAS PELIGROSAS ACOMPAÑADAS POR FUERTES  
CORRIENTES SON POSIBLES Y PUEDEN CONTINUAR POR MUCHAS HORAS  
DESPUES DE LA LLEGADA DEL TSUNAMI.
- \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

#### IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

-----

- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS  
PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
- \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES  
Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS  
DESPUES DE LA LLEGADA DEL TSUNAMI.
- \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

#### ACCIONES RECOMENDADAS

-----

- \* SI SE ENCUENTRA EN UN AREA BAJO AVISO - MUEVASE TIERRA ADENTRO  
A LUGARES ELEVADOS.
- \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA  
PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES  
GENERALIZADAS PARA AREAS BAJO ADVERTENCIA
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE  
EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO  
DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

#### OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

-----

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI	ALTURA MAX OBSERVADA DEL TSUNAMI
-----	-----	-----	-----	-----

\* NEWFOUNDLAND

SAINT LAWRENCE 1440 NDT MAR 26

\* U.S. VIRGIN IS.

CHRISTIANSTED 1316 AST MAR 26 6 HRS 01.1FT +/- 0 01.3FT

CHARLOTTE AMALIE 1346 AST MAR 26 18 HRS 03.7FT +/- 1.1

\* BRITISH VIRGIN ISLANDS

ROADTOWN 1318 AST MAR 26

\* PUERTO RICO

SAN JUAN 1320 AST MAR 26 18 HRS 03.8FT +/- 1.1

MAYAGUEZ 1338 AST MAR 26 9 HRS 02.5FT +/- 0.8 01.8FT

\* NOVA SCOTIA

SCATARIE IS. 1418 ADT MAR 26

LOCKEPORT 1429 ADT MAR 26

\* NORTH CAROLINA

CAPE HATTERAS 1415 EDT MAR 26

\* NEW YORK

MONTAUK 1441 EDT MAR 26

LESS THAN 1 FT

MANHATTAN 1617 EDT MAR 26

\* NEW BRUNSWICK

GRAND MANAN IS. 1554 ADT MAR 26

\* MARYLAND

OCEAN CITY 1425 EDT MAR 26

LESS THAN 1 FT

\* MASSACHUSETTS

NANTUCKET IS. 1512 EDT MAR 26

BOSTON 1557 EDT MAR 26

\* NEW JERSEY

ATLANTIC CITY 1513 EDT MAR 26 15 HRS 02.3FT +/- 0.7

\* VIRGINIA

VIRGINIA BEACH 1528 EDT MAR 26 12 HRS 01.7FT +/- 0.5

\* MAINE

PORTLAND 1525 EDT MAR 26

LESS THAN 1 FT

\* FLORIDA

MIAMI 1538 EDT MAR 26

MELBOURNE BEACH 1635 EDT MAR 26

JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA

MYRTLE BEACH 1636 EDT MAR 26

CHARLESTON 1654 EDT MAR 26

\* GEORGIA

SAVANNAH 1704 EDT MAR 26

ALTURA MAX PRONOSTICADA DEL TSUNAMI ES EL NIVEL DE AGUA MAS ALTO ESPERADO POR ENCIMA DE LA MAREA.

LA DURACION MAXIMA DEL TSUNAMI ES EL TIEMPO APROXIMADO QUE SE ESPERA QUE EL TSUNAMI PRODUZCA CORRIENTES Y OLEAJE PELIGROSA.

LA ALTURA MAX OBSERVADA ES EL NIVEL DE AGUA MAS ALTA SOBRE LA MAREA HASTA ESTE PUNTO.

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	01.7FT
MAYAGUEZ PR	1757 UTC 03-26	01.8FT
FAJARDO PR	1751 UTC 03-26	01.3FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

PARAMETROS PRELIMINARES DEL TERREMOTO

\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

- \* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.
- \* CONSULTE EL SITIO DE INTERNET NTHW.ARH.NOAA.GOV PARA MAS INFORMACION.
- \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNDIOS Y ISLAS VIRGENES BRITANICAS

DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO  
DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET  
PTWC.WEATHER.GOV.

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US NTWC Spanish Bulletin #10

WEXX40 PAAQ 261905  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 10  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
305 PM EDT WED MAR 26 2014

...EL AVISO DE TSUNAMI PERMANECE EN EFECTO...

...LA ADVERTENCIA DE TSUNAMI PERMANECE EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS

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AVISO DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.

ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

IMPACTOS PARA AREAS BAJO AVISO DE TSUNAMI

- 
- \* AMPLIAS INUNDACIONES COSTERAS PELIGROSAS ACOMPAÑADAS POR FUERTES CORRIENTES SON POSIBLES Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
  - \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

- 
- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
  - \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
  - \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

ACCIONES RECOMENDADAS

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- \* SI SE ENCUENTRA EN UN AREA BAJO AVISO - MUEVASE TIERRA ADENTRO A LUGARES ELEVADOS.
- \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES GENERALIZADAS PARA AREAS BAJO ADVERTENCIA
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

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LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI	ALTURA MAX OBSERVADA DEL TSUNAMI
* NOVA SCOTIA				
SCATARIE IS.	1418	ADT MAR 26		
LOCKEPORT	1429	ADT MAR 26		
* NORTH CAROLINA				
CAPE HATTERAS	1415	EDT MAR 26		
* NEW YORK				
MONTAUK	1441	EDT MAR 26		LESS THAN 1 FT
MANHATTAN	1617	EDT MAR 26		
* NEW BRUNSWICK				
GRAND MANAN IS.	1554	ADT MAR 26		
* MARYLAND				
OCEAN CITY	1425	EDT MAR 26	LESS THAN 1 FT	
* MASSACHUSETTS				
NANTUCKET IS.	1512	EDT MAR 26		



BOSTON 1557 EDT MAR 26

\* NEW JERSEY

ATLANTIC CITY 1513 EDT MAR 26 15 HRS 02.3FT +/- 0.7

\* VIRGINIA

VIRGINIA BEACH 1528 EDT MAR 26 12 HRS 01.7FT +/- 0.5

\* MAINE

PORTLAND 1525 EDT MAR 26  
FT

LESS THAN 1

\* FLORIDA

MIAMI 1538 EDT MAR 26

MELBOURNE BEACH 1635 EDT MAR 26

JACKSONVILLE BEA 1649 EDT MAR 26

\* SOUTH CAROLINA

MYRTLE BEACH 1636 EDT MAR 26

CHARLESTON 1654 EDT MAR 26

\* GEORGIA

SAVANNAH 1704 EDT MAR 26

ALTURA MAX PRONOSTICADA DEL TSUNAMI ES EL NIVEL DE AGUA MAS ALTO ESPERADO POR ENCIMA DE LA MAREA.

LA DURACION MAXIMA DEL TSUNAMI ES EL TIEMPO APROXIMADO QUE SE ESPERA QUE EL TSUNAMI PRODUZCA CORRIENTES Y OLEAJE PELIGROSA.

LA ALTURA MAX OBSERVADA ES EL NIVEL DE AGUA MAS ALTA SOBRE LA MAREA HASTA ESTE PUNTO.

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
LIMTETREE USVI	1832 UTC 03-26	01.1FT
MAYAGUEZ PR	1757 UTC 03-26	02.7FT
FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT
SAINT JOHNS CANADA	1833 UTC 03-26	02.9FT

HALIFAX CANADA

1848 UTC 03-26

01.9FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA  
POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

PARAMETROS PRELIMINARES DEL TERREMOTO

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\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

-----  
\* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.  
  
\* CONSULTE EL SITIO DE INTERNET NTCW.ARH.NOAA.GOV PARA MAS  
INFORMACION.  
  
\* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS  
VIRGENES DE LOS ESTADOS UNDIOS Y ISLAS VIRGENES BRITANICAS  
DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO  
DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET  
PTWC.WEATHER.GOV.

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US NTCW Spanish Bulletin #11

WEXX40 PAAQ 262002  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 11  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
402 PM EDT WED MAR 26 2014

...LA ADVERTENCIA DE TSUNAMI PERMANECE EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS - ACTUALIZADOS

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ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

\* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA -  
NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW

JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND -  
MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK -  
NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO  
FLORIDA HASTA CAPE CHIDLEY LABRADOR

- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.
- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

#### IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

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- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
- \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
- \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

#### ACCIONES RECOMENDADAS - ACTUALIZADAS

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- \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES GENERALIZADAS PARA AREAS BAJO ADVERTENCIA
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

#### OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

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LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI	ALTURA MAX OBSERVADA DEL TSUNAMI
* NEW YORK MANHATTAN	1617	EDT MAR 26		
* NEW BRUNSWICK GRAND MANAN IS.	1554	ADT MAR 26		
* MASSACHUSETTS NANTUCKET IS.	1512	EDT MAR 26	01.9FT	
BOSTON	1557	EDT MAR 26		

* NEW JERSEY						
ATLANTIC CITY	1513	EDT MAR 26	15 HRS	02.3FT +/- 0.7		02.6FT
* VIRGINIA						
VIRGINIA BEACH	1528	EDT MAR 26	12 HRS	01.7FT +/- 0.5		02.1FT
* MAINE						
PORTLAND	1525	EDT MAR 26				LESS THAN 1 FT
* FLORIDA						
MIAMI	1538	EDT MAR 26				
MELBOURNE BEACH	1635	EDT MAR 26				
JACKSONVILLE BEA	1649	EDT MAR 26				
* SOUTH CAROLINA						
MYRTLE BEACH	1636	EDT MAR 26				
CHARLESTON	1654	EDT MAR 26				
* GEORGIA						
SAVANNAH	1704	EDT MAR 26				

ALTURA MAX PRONOSTICADA DEL TSUNAMI ES EL NIVEL DE AGUA MAS ALTO ESPERADO POR ENCIMA DE LA MAREA.

LA DURACION MAXIMA DEL TSUNAMI ES EL TIEMPO APROXIMADO QUE SE ESPERA QUE EL TSUNAMI PRODUZCA CORRIENTES Y OLEAJE PELIGROSA.

LA ALTURA MAX OBSERVADA ES EL NIVEL DE AGUA MAS ALTA SOBRE LA MAREA HASTA ESTE PUNTO.

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
LIMTETREE USVI	1832 UTC 03-26	01.1FT
MAYAGUEZ PR	1757 UTC 03-26	02.7FT
FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT
SAINT JOHNS CANADA	1833 UTC 03-26	02.9FT
HALIFAX CANADA	1848 UTC 03-26	01.9FT

MONTAUK NY	1912 UTC 03-26	00.9FT
OCEAN CITY MD	1919 UTC 03-26	01.1FT
NANTUCKET MA	1949 UTC 03-26	01.9FT
ATLANTIC CITY NJ	1951 UTC 03-26	02.6FT
VIRGINIA BEACH VA	1955 UTC 03-26	02.1FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA  
POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

PARAMETROS PRELIMINARES DEL TERREMOTO

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\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

-----  
\* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.  
  
\* CONSULTE EL SITIO DE INTERNET NTRC.ARH.NOAA.GOV PARA MAS  
INFORMACION.  
  
\* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS  
VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS  
DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO  
DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET  
PTWC.WEATHER.GOV.

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US NTRC Spanish Bulletin #12

WEXX40 PAAQ 262101  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 12  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
501 PM EDT WED MAR 26 2014

...LA ADVERTENCIA DE TSUNAMI PERMANECE EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS

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ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.
- \* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
- \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
- \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

ACCIONES RECOMENDADAS

- \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES GENERALIZADAS PARA AREAS BAJO ADVERTENCIA
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

OBSERVACIONES Y/O PRONOSTICOS DEL TSUNAMI

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI	ALTURA MAX OBSERVADA DEL TSUNAMI
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- \* FLORIDA
- MELBOURNE BEACH 1635 EDT MAR 26
- JACKSONVILLE BEA 1649 EDT MAR 26

- \* SOUTH CAROLINA

MYRTLE BEACH            1636 EDT MAR 26  
CHARLESTON            1654 EDT MAR 26

\* GEORGIA  
SAVANNAH            1704 EDT MAR 26

ALTURA MAX PRONOSTICADA DEL TSUNAMI ES EL NIVEL DE AGUA MAS ALTO  
ESPERADO POR ENCIMA DE LA MAREA.

LA DURACION MAXIMA DEL TSUNAMI ES EL TIEMPO APROXIMADO QUE SE  
ESPERA QUE EL TSUNAMI PRODUZCA CORRIENTES Y OLEAJE PELIGROSA.

LA ALTURA MAX OBSERVADA ES EL NIVEL DE AGUA MAS ALTA SOBRE  
LA MAREA HASTA ESTE PUNTO.

OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
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FERROL SPAIN	1410 UTC 03-26	01.7FT
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LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
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FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT
SAINT JOHNS CANADA	1833 UTC 03-26	02.9FT
HALIFAX CANADA	1848 UTC 03-26	01.9FT
MONTAUK NY	1912 UTC 03-26	00.9FT
OCEAN CITY MD	1919 UTC 03-26	01.1FT
NANTUCKET MA	1949 UTC 03-26	01.9FT
ATLANTIC CITY NJ	1951 UTC 03-26	02.6FT
VIRGINIA BEACH VA	1955 UTC 03-26	02.1FT
DUCK NC	2020 UTC 03-26	01.3FT
WATCH HILL RI	2033 UTC 03-26	00.7FT
PORTLAND ME	2034 UTC 03-26	00.2FT
TRIDENT PIER FL	2037 UTC 03-26	02.1FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA  
POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

PARAMETROS PRELIMINARES DEL TERREMOTO

\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

PROXIMA ACTUALIZACION E INFORMACION ADICIONAL  
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- \* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.
- \* CONSULTE EL SITIO DE INTERNET NTCW.ARH.NOAA.GOV PARA MAS INFORMACION.
- \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET PTWC.WEATHER.GOV.

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US NTCW Spanish Bulletin #13

WEXX40 PAAQ 262201  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 13  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
601 PM EDT WED MAR 26 2014

...LA ADVERTENCIA DE TSUNAMI PERMANECE EN EFECTO...

AVISOS/ADVERTENCIAS/VIGILANCIAS  
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ADVERTENCIA DE TSUNAMI EN EFECTO PARA...

- \* AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
- \* AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS.



\* PARA OTRAS COSTAS DE ESTADOS UNIDOS Y CANADA EN EL ATLANTICO Y GOLFO DE MEXICO-ESTO ES SOLAMENTE PARA INFORMACION.

#### IMPACTOS PARA AREAS BAJO ADVERTENCIA DE TSUNAMI

-----

- \* UN TSUNAMI CAPAZ DE PRODUCIR FUERTES CORRIENTES U OLAS PELIGROSAS A PERSONAS EN O MUY CERCA DEL AGUA ES ESPERADO.
- \* CORRIENTES PUEDEN SER PELIGROSAS PARA NADADORES...EMBARCACIONES Y ESTRUCTURAS COSTERAS Y PUEDEN CONTINUAR POR MUCHAS HORAS DESPUES DE LA LLEGADA DEL TSUNAMI.
- \* LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE.

#### ACCIONES RECOMENDADAS

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- \* SI SE ENCUENTRA EN UN AREA BAJO ADVERTENCIA - SALGASE DE LA PLAYA BAHIAS Y MARINAS. NO SE ESPERAN INUNDACIONES GENERALIZADAS PARA AREAS BAJO ADVERTENCIA
- \* ESTE ALERTA A INSTRUCCIONES DE SUS AUTORIDADES DE MANEJO DE EMERGENCIA.
- \* NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- \* NO REGRESE A LA COSTA HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

#### OBSERVACIONES ADICIONALES DEL TSUNAMI - ACTUALIZADAS

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LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
HUELVA SPAIN	1130 UTC 03-26	07.1FT
TARIFA SPAIN	1145 UTC 03-26	05.9FT
CASCAIS PORTUGAL	1151 UTC 03-26	09.9FT
LA PALMA SPAIN	1250 UTC 03-26	02.1FT
ARRECIFE SPAIN	1252 UTC 03-26	03.1FT
POINT DELGADA AZORES	1342 UTC 03-26	05.6FT
FERROL SPAIN	1410 UTC 03-26	01.7FT
DAKAR SENEGAL	1515 UTC 03-26	00.4FT
CHRISTIANSTED USVI	1745 UTC 03-26	01.3FT
LAMESHUR BAY USVI	1752 UTC 03-26	03.2FT
CHARLOTTE AMALIE USVI	1845 UTC 03-26	04.1FT
LIMTETREE USVI	1832 UTC 03-26	01.1FT
MAYAGUEZ PR	1757 UTC 03-26	02.7FT
FAJARDO PR	1751 UTC 03-26	02.7FT
ARECIBO PR	1815 UTC 03-26	05.2FT
BERMUDA	1811 UTC 03-26	02.9FT
SAINT JOHNS CANADA	1833 UTC 03-26	02.9FT
HALIFAX CANADA	1848 UTC 03-26	01.9FT
MONTAUK NY	1912 UTC 03-26	00.9FT

OCEAN CITY MD	1919 UTC 03-26	01.1FT
NANTUCKET MA	1949 UTC 03-26	01.9FT
ATLANTIC CITY NJ	1951 UTC 03-26	02.6FT
VIRGINIA BEACH VA	1955 UTC 03-26	02.1FT
DUCK NC	2020 UTC 03-26	01.3FT
WATCH HILL RI	2033 UTC 03-26	00.7FT
PORTLAND ME	2034 UTC 03-26	00.2FT
TRIDENT PIER FL	2037 UTC 03-26	02.1FT
CHARLESTON SC	2037 UTC 03-26	00.4FT

ALTURA - ALTURA MAX OBSERVADA DEL TSUNAMI ES EL NIVEL DEL AGUA  
POR ENCIMA DE LA MAREA A LA HORA DE LA MEDICION.

#### PARAMETROS PRELIMINARES DEL TERREMOTO

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\* MAGNITUD 8.5  
\* TIEMPO ORIGEN 0600 EDT MAR 26 2014  
0500 CDT MAR 26 2014  
0600 AST MAR 26 2014  
1000 UTC MAR 26 2014  
\* COORDENADAS 36.0 NORTE 10.8 OESTE  
\* PROFUNDIDAD 3 MILLAS  
\* LOCALIZACION NORTH ATLANTIC OCEAN

#### PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

-----  
\* ESTE MENSAJE SERA ACTUALIZADO EN 60 MINUTOS.  
  
\* CONSULTE EL SITIO DE INTERNET NTHW.CA.NOAA.GOV PARA MAS  
INFORMACION.  
  
\* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS  
VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS  
DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO  
DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET  
PTWC.WEATHER.GOV.

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#### US NTHW Spanish Bulletin #14

WEXX40 PAAQ 262255  
TSUSPN

BULLETIN  
NUMERO MENSAJE TSUNAMI EXPERIMENTAL EN ESPANOL 14  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
655 PM EDT WED MAR 26 2014

...LA ADVERTENCIA DE TSUNAMI HA SIDO CANCELADA...

## CANCELACIONES

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- \* LA ADVERTENCIA DE TSUNAMI HA SIDO CANCELADO PARA AREAS COSTERAS DE FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA - NEWFOUNDLAND Y LABRADOR DESDE FLAMINGO FLORIDA HASTA CAPE CHIDLEY LABRADOR
- \* LA ADVERTENCIA DE TSUNAMI HA SIDO CANCELADA PARA PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS

## IMPACTOS - ACTUALIZADOS

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- \* LA ACTIVIDAD DE TSUNAMI HA DISMINUIDO A LO LARGO DE LAS COSTAS DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNIDOS... ISLAS VIRGENES BRITANICAS Y DE LAS COSTAS DEL ATLANTICO DE ESTADOS UNIDOS Y CANADA.
- \* ACTIVIDAD EN CURSO PUEDE SEGUIR EN ALGUNAS AREAS CAUSANDO FUERTES CORRIENTES PELIGROSOS PARA NADADORES Y EMBARCACIONES.
- \* LA DETERMINACION PARA VOLVER A OCUPAR ZONAS DE PELIGRO DEBE SER HECHA POR AUTORIDADES LOCALES.

## ACCIONES RECOMENDADAS - ACTUALIZADAS

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- \* NO REGRESEN A ZONAS DESALOJADAS HASTA QUE LAS AUTORIDADES LOCALES DE MANEJO DE EMERGENCIA INDIQUEN QUE ES SEGURO HACERLO.

## PROXIMA ACTUALIZACION E INFORMACION ADICIONAL

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- \* ESTE SERA EL ULTIMO BOLETIN EMITIDO POR EL CENTRO NACIONAL DE ALERTA DE TSUNAMIS PARA ESTE EVENTO.
- \* CONSULTE EL SITIO DE INTERNET [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV) PARA MAS INFORMACION.
- \* REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNIDOS Y ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).

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PTWC Messages

PTWC Message #1

WECA41 PHEB 261005  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 1...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1005 UTC WED MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
BONAIRE / CUBA / ARUBA / FRENCH GUIANA / VENEZUELA / CURACAO /  
CAYMAN ISLANDS / COLOMBIA / JAMAICA / PANAMA / MEXICO /  
HONDURAS / GUYANA / SURINAME / COSTA RICA / NICARAGUA / BELIZE /  
GUATEMALA

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY  
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE  
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.0

EVALUATION

EARTHQUAKES OF THIS SIZE HAVE THE POTENTIAL TO GENERATE A  
WIDESPREAD DESTRUCTIVE TSUNAMI THAT CAN AFFECT COASTLINES ACROSS  
THE ENTIRE CARIBBEAN REGION.

HOWEVER - IT IS NOT KNOWN THAT A TSUNAMI WAS GENERATED. THIS  
WATCH IS BASED ONLY ON THE EARTHQUAKE EVALUATION. AUTHORITIES IN  
THE REGION SHOULD TAKE APPROPRIATE ACTION IN RESPONSE TO THE  
POSSIBILITY OF A WIDESPREAD DESTRUCTIVE TSUNAMI.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS  
WITHIN THE WARNING AND WATCH AREAS 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  
SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT BASSETERRE		17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR
	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR
	SANTO_DOMINGO	18.5N 69.9W	1816Z 26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N 71.1W	1752Z 26 MAR
	WEST_CAICOS	21.7N 72.5W	1805Z 26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N 62.8W	1754Z 26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1801Z 26 MAR
	PORT_OF_SPAIN	10.6N 61.5W	1908Z 26 MAR
BAHAMAS	MAYAGUANA	22.3N 73.0W	1802Z 26 MAR
	SAN_SALVADOR	24.1N 74.5W	1808Z 26 MAR
	LONG_ISLAND	23.3N 75.1W	1821Z 26 MAR
	GREAT_INAGUA	20.9N 73.7W	1823Z 26 MAR
	EXUMA	23.6N 75.9W	1824Z 26 MAR
	CAT_ISLAND	24.4N 75.5W	1824Z 26 MAR
	ELEUTHERA_ISLAN	25.2N 76.1W	1829Z 26 MAR
	CROOKED_ISLAND	22.7N 74.1W	1834Z 26 MAR
	ANDROS_ISLAND	25.0N 77.9W	1835Z 26 MAR
	NASSAU	25.1N 77.4W	1847Z 26 MAR
	ABACO_ISLAND	26.6N 77.1W	1858Z 26 MAR
	FREEPORT	26.5N 78.8W	1859Z 26 MAR
	BIMINI	25.8N 79.3W	1912Z 26 MAR
	GRENADA	SAINT_GEORGES	12.0N 61.8W
SAINT MARTIN	BAIE_BLANCHE	18.1N 63.0W	1805Z 26 MAR
HAITI	CAP_HAITEN	19.8N 72.2W	1809Z 26 MAR
	JACAMEL	18.1N 72.5W	1835Z 26 MAR
	JEREMIE	18.6N 74.1W	1841Z 26 MAR
	PORT_AU_PRINCE	18.5N 72.4W	1934Z 26 MAR
BONAIRE	ONIMA	12.3N 68.3W	1823Z 26 MAR
CUBA	BARACOA	20.4N 74.5W	1827Z 26 MAR
	GIBARA	21.1N 76.1W	1837Z 26 MAR
	SANTIAGO_D_CUBA	19.9N 75.8W	1844Z 26 MAR
	CIENFUEGOS	22.0N 80.5W	1937Z 26 MAR
	LA_HABANA	23.2N 82.4W	2025Z 26 MAR
	SANTA_CRZ_D_SUR	20.7N 78.0W	2201Z 26 MAR
	NUEVA_GERONA	21.9N 82.8W	2339Z 26 MAR

ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

PTWC Message #2

WECA41 PHEB 261103  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 2...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1103 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN

ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

THE EARTHQUAKE MAGNITUDE IS INCREASED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
BONAIRE / CUBA / ARUBA / FRENCH GUIANA / VENEZUELA / CURACAO /  
CAYMAN ISLANDS / COLOMBIA / JAMAICA / PANAMA / MEXICO /  
HONDURAS / GUYANA / SURINAME / COSTA RICA / NICARAGUA / BELIZE /  
GUATEMALA

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DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

EVALUATION

EARTHQUAKES OF THIS SIZE HAVE THE POTENTIAL TO GENERATE A  
WIDESPREAD DESTRUCTIVE TSUNAMI THAT CAN AFFECT COASTLINES ACROSS  
THE ENTIRE CARIBBEAN REGION.

HOWEVER - IT IS NOT KNOWN THAT A TSUNAMI WAS GENERATED. THIS  
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ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS  
WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL  
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SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
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SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR

SINT EUSTATIUS	SINT_EUSTATIUS	17.5N	63.0W	1723Z	26 MAR
SABA	SABA	17.6N	63.2W	1724Z	26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N	61.1W	1725Z	26 MAR
ANGUILLA	THE_VALLEY	18.3N	63.1W	1727Z	26 MAR
ANTIGUA	SAINT_JOHNS	17.1N	61.9W	1727Z	26 MAR
SAINT KITTS	BASSETERRE	17.3N	62.7W	1728Z	26 MAR
BARBUDA	PALMETTO_POINT	17.6N	61.9W	1728Z	26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N	63.1W	1731Z	26 MAR
SAINT VINCENT	KINGSTOWN	13.1N	61.2W	1736Z	26 MAR
BRAZIL	FORTALEZA	3.7S	38.5W	1746Z	26 MAR
	SAO_LUIS	2.5S	44.3W	2048Z	26 MAR
	ILHA_DE_MARACA	2.2N	50.5W	2210Z	26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N	68.3W	1751Z	26 MAR
	PUERTO_PLATA	19.8N	70.7W	1753Z	26 MAR
	SANTO_DOMINGO	18.5N	69.9W	1816Z	26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N	71.1W	1752Z	26 MAR
	WEST_CAICOS	21.7N	72.5W	1805Z	26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N	62.8W	1754Z	26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N	60.6W	1801Z	26 MAR
	PORT_OF_SPAIN	10.6N	61.5W	1908Z	26 MAR
BAHAMAS	MAYAGUANA	22.3N	73.0W	1802Z	26 MAR
	SAN_SALVADOR	24.1N	74.5W	1808Z	26 MAR
	LONG_ISLAND	23.3N	75.1W	1821Z	26 MAR
	GREAT_INAGUA	20.9N	73.7W	1823Z	26 MAR
	EXUMA	23.6N	75.9W	1824Z	26 MAR
	CAT_ISLAND	24.4N	75.5W	1824Z	26 MAR
	ELEUTHERA_ISLAN	25.2N	76.1W	1829Z	26 MAR
	CROOKED_ISLAND	22.7N	74.1W	1834Z	26 MAR
	ANDROS_ISLAND	25.0N	77.9W	1835Z	26 MAR
	NASSAU	25.1N	77.4W	1847Z	26 MAR
	ABACO_ISLAND	26.6N	77.1W	1858Z	26 MAR
	FREEPORT	26.5N	78.8W	1859Z	26 MAR
	BIMINI	25.8N	79.3W	1912Z	26 MAR
GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z	26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR



CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI  
WARNING CENTER FOR THIS EVENT AS MORE INFORMATION  
BECOMES AVAILABLE.

PTWC Message #3

WECA41 PHEB 261204  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 3...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1204 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /

GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
BONAIRE / CUBA / ARUBA / FRENCH GUIANA / VENEZUELA / CURACAO /  
CAYMAN ISLANDS / COLOMBIA / JAMAICA / PANAMA / MEXICO /  
HONDURAS / GUYANA / SURINAME / COSTA RICA / NICARAGUA / BELIZE /  
GUATEMALA

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY  
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE  
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES LAT	TIME OF MEASURE LON (UTC)	MAXIMUM TSUNAMI HEIGHT (MIN)	WAVE PERIOD
TARIFA ES	36.0N 5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N 5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N 6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)

LON - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY HAVE  
ALREADY HAVE BEEN DESTRUCTIVE ALONG COASTS NEAR THE EARTHQUAKE  
EPICENTER.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF  
THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE  
OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME  
OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN  
LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO  
BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE  
TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE  
VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST  
BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR
	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR
	SANTO_DOMINGO	18.5N 69.9W	1816Z 26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N 71.1W	1752Z 26 MAR
	WEST_CAICOS	21.7N 72.5W	1805Z 26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N 62.8W	1754Z 26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1801Z 26 MAR
	PORT_OF_SPAIN	10.6N 61.5W	1908Z 26 MAR
BAHAMAS	MAYAGUANA	22.3N 73.0W	1802Z 26 MAR
	SAN_SALVADOR	24.1N 74.5W	1808Z 26 MAR
	LONG_ISLAND	23.3N 75.1W	1821Z 26 MAR
	GREAT_INAGUA	20.9N 73.7W	1823Z 26 MAR
	EXUMA	23.6N 75.9W	1824Z 26 MAR
	CAT_ISLAND	24.4N 75.5W	1824Z 26 MAR
	ELEUTHERA_ISLAN	25.2N 76.1W	1829Z 26 MAR
	CROOKED_ISLAND	22.7N 74.1W	1834Z 26 MAR
	ANDROS_ISLAND	25.0N 77.9W	1835Z 26 MAR
	NASSAU	25.1N 77.4W	1847Z 26 MAR
	ABACO_ISLAND	26.6N 77.1W	1858Z 26 MAR
GRENADA	FREEPORT	26.5N 78.8W	1859Z 26 MAR
	BIMINI	25.8N 79.3W	1912Z 26 MAR
	SAINT_GEORGES	12.0N 61.8W	1803Z 26 MAR
	BAIE_BLANCHE	18.1N 63.0W	1805Z 26 MAR
HAITI	CAP_HAITEN	19.8N 72.2W	1809Z 26 MAR
	JACAMEL	18.1N 72.5W	1835Z 26 MAR
	JEREMIE	18.6N 74.1W	1841Z 26 MAR
BONAIRE	PORT_AU_PRINCE	18.5N 72.4W	1934Z 26 MAR
	ONIMA	12.3N 68.3W	1823Z 26 MAR

CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
COLOMBIA	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
JAMAICA	KINGSTON	17.9N	76.9W	1943Z	26 MAR
	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
PANAMA	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
MEXICO	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
HONDURAS	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI  
WARNING CENTER FOR THIS EVENT AS MORE INFORMATION  
BECOMES AVAILABLE.

PTWC Message #4

WECA41 PHEB 261300  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 4...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1300 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
BONAIRE / CUBA / ARUBA / FRENCH GUIANA / VENEZUELA / CURACAO /  
CAYMAN ISLANDS / COLOMBIA / JAMAICA / PANAMA / MEXICO /  
HONDURAS / GUYANA / SURINAME / COSTA RICA / NICARAGUA / BELIZE /  
GUATEMALA

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY  
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE  
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES LAT	TIME OF MEASURE LON (UTC)	MAXIMUM TSUNAMI HEIGHT (MIN)	WAVE PERIOD
PONTA DELGADA PT	37.7N 25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N 8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N 17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N 5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N 5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N 6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)  
LON - LONGITUDE (E-EAST, W-WEST)  
TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)  
AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.  
IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.  
VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY HAVE ALREADY BEEN DESTRUCTIVE ALONG COASTS NEAR THE EARTHQUAKE EPICENTER.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTSEERRAT	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR
	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR
	SANTO_DOMINGO	18.5N 69.9W	1816Z 26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N 71.1W	1752Z 26 MAR
	WEST_CAICOS	21.7N 72.5W	1805Z 26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N 62.8W	1754Z 26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1801Z 26 MAR
	PORT_OF_SPAIN	10.6N 61.5W	1908Z 26 MAR
BAHAMAS	MAYAGUANA	22.3N 73.0W	1802Z 26 MAR
	SAN_SALVADOR	24.1N 74.5W	1808Z 26 MAR
	LONG_ISLAND	23.3N 75.1W	1821Z 26 MAR

	GREAT_INAGUA	20.9N	73.7W	1823Z	26 MAR
	EXUMA	23.6N	75.9W	1824Z	26 MAR
	CAT_ISLAND	24.4N	75.5W	1824Z	26 MAR
	ELEUTHERA_ISLAN	25.2N	76.1W	1829Z	26 MAR
	CROOKED_ISLAND	22.7N	74.1W	1834Z	26 MAR
	ANDROS_ISLAND	25.0N	77.9W	1835Z	26 MAR
	NASSAU	25.1N	77.4W	1847Z	26 MAR
	ABACO_ISLAND	26.6N	77.1W	1858Z	26 MAR
	FREEPORT	26.5N	78.8W	1859Z	26 MAR
	BIMINI	25.8N	79.3W	1912Z	26 MAR
GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z	26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR

SURINAME	PARAMARIBO	5.9N 55.2W	2033Z 26 MAR
COSTA RICA	PUERTO_LIMON	10.0N 83.0W	2038Z 26 MAR
NICARAGUA	PUNTA_GORDA	11.4N 83.8W	2130Z 26 MAR
	PUERTO_CABEZAS	14.0N 83.4W	0057Z 27 MAR
BELIZE	BELIZE_CITY	17.5N 88.2W	2142Z 26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N 88.6W	2225Z 26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

PTWC Message #5

WECA41 PHEB 261400  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 5...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1400 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
BONAIRE / CUBA / ARUBA / FRENCH GUIANA / VENEZUELA / CURACAO /  
CAYMAN ISLANDS / COLOMBIA / JAMAICA / PANAMA / MEXICO /  
HONDURAS / GUYANA / SURINAME / COSTA RICA / NICARAGUA / BELIZE /  
GUATEMALA

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY



GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM TSUNAMI HEIGHT (MIN)	WAVE PERIOD
	LAT	LO N (UTC)			
PALMEIRA CAPE VERDE	16.8N	23.0W	1344	0.94M/ 3.1FT	30
PONTA DELGADA PT	37.7N	25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N	8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N	17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N	5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N	5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N	6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)

LO N - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

#### EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY HAVE ALREADY HAVE BEEN DESTRUCTIVE ALONG COASTS NEAR THE EARTHQUAKE EPICENTER.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTSERRAT	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR

SAINT KITTS	BASSETERRE	17.3N	62.7W	1728Z	26 MAR
BARBUDA	PALMETTO_POINT	17.6N	61.9W	1728Z	26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N	63.1W	1731Z	26 MAR
SAINT VINCENT	KINGSTOWN	13.1N	61.2W	1736Z	26 MAR
BRAZIL	FORTALEZA	3.7S	38.5W	1746Z	26 MAR
	SAO_LUIS	2.5S	44.3W	2048Z	26 MAR
	ILHA_DE_MARACA	2.2N	50.5W	2210Z	26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N	68.3W	1751Z	26 MAR
	PUERTO_PLATA	19.8N	70.7W	1753Z	26 MAR
	SANTO_DOMINGO	18.5N	69.9W	1816Z	26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N	71.1W	1752Z	26 MAR
	WEST_CAICOS	21.7N	72.5W	1805Z	26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N	62.8W	1754Z	26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N	60.6W	1801Z	26 MAR
	PORT_OF_SPAIN	10.6N	61.5W	1908Z	26 MAR
BAHAMAS	MAYAGUANA	22.3N	73.0W	1802Z	26 MAR
	SAN_SALVADOR	24.1N	74.5W	1808Z	26 MAR
	LONG_ISLAND	23.3N	75.1W	1821Z	26 MAR
	GREAT_INAGUA	20.9N	73.7W	1823Z	26 MAR
	EXUMA	23.6N	75.9W	1824Z	26 MAR
	CAT_ISLAND	24.4N	75.5W	1824Z	26 MAR
	ELEUTHERA_ISLAN	25.2N	76.1W	1829Z	26 MAR
	CROOKED_ISLAND	22.7N	74.1W	1834Z	26 MAR
	ANDROS_ISLAND	25.0N	77.9W	1835Z	26 MAR
	NASSAU	25.1N	77.4W	1847Z	26 MAR
	ABACO_ISLAND	26.6N	77.1W	1858Z	26 MAR
FREEPORT		26.5N	78.8W	1859Z	26 MAR
	BIMINI	25.8N	79.3W	1912Z	26 MAR
GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z	26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
	ARUBA	ORANJESTAD	12.5N	70.0W	1837Z
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR

	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI  
WARNING CENTER FOR THIS EVENT AS MORE INFORMATION  
BECOMES AVAILABLE.

PTWC Message #6

WECA41 PHEB 261500  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 6...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1500 UTC TUE MAR 26 2014

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GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
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GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM WAVE TSUNAMI PERIOD	
	LAT	LONG (UTC)		HEIGHT	(MIN)
DAKAR SN	14.7N	17.4W	1437	0.76M/ 2.5FT	27
NOUAKCHOTT MA	18.1N	15.9W	1422	0.68M/ 2.2FT	14
PALMEIRA CAPE VERDE	16.8N	23.0W	1344	0.94M/ 3.1FT	30
PONTA DELGADA PT	37.7N	25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N	8.3W	1207	1.19M/ 3.9FT	22
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IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

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PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY HAVE  
ALREADY BEEN DESTRUCTIVE ALONG COASTS NEAR THE EARTHQUAKE  
EPICENTER.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF  
THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE  
OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME  
OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN  
LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO  
BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE  
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VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST  
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LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR
	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR
	SANTO_DOMINGO	18.5N 69.9W	1816Z 26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N 71.1W	1752Z 26 MAR
	WEST_CAICOS	21.7N 72.5W	1805Z 26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N 62.8W	1754Z 26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1801Z 26 MAR
	PORT_OF_SPAIN	10.6N 61.5W	1908Z 26 MAR
BAHAMAS	MAYAGUANA	22.3N 73.0W	1802Z 26 MAR
	SAN_SALVADOR	24.1N 74.5W	1808Z 26 MAR
	LONG_ISLAND	23.3N 75.1W	1821Z 26 MAR
	GREAT_INAGUA	20.9N 73.7W	1823Z 26 MAR
	EXUMA	23.6N 75.9W	1824Z 26 MAR
	CAT_ISLAND	24.4N 75.5W	1824Z 26 MAR
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	CROOKED_ISLAND	22.7N 74.1W	1834Z 26 MAR
	ANDROS_ISLAND	25.0N 77.9W	1835Z 26 MAR
	NASSAU	25.1N 77.4W	1847Z 26 MAR
	ABACO_ISLAND	26.6N 77.1W	1858Z 26 MAR
	FREEPORT	26.5N 78.8W	1859Z 26 MAR
	BIMINI	25.8N 79.3W	1912Z 26 MAR
GRENADA	SAINT_GEORGES	12.0N 61.8W	1803Z 26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N 63.0W	1805Z 26 MAR
HAITI	CAP_HAITEN	19.8N 72.2W	1809Z 26 MAR
	JACAMEL	18.1N 72.5W	1835Z 26 MAR
	JEREMIE	18.6N 74.1W	1841Z 26 MAR
	PORT_AU_PRINCE	18.5N 72.4W	1934Z 26 MAR
BONAIRE	ONIMA	12.3N 68.3W	1823Z 26 MAR

CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
ARUBA	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

PTWC Message #7

WECA41 PHEB 261602  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 7...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1602 UTC TUE MAR 26 2014

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CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

THE WATCH AREA IS REDUCED IN THIS MESSAGE.  
ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
CUBA / FRENCH GUIANA / VENEZUELA / JAMAICA / GUYANA / SURINAME

THE TSUNAMI WATCH IS NOW CANCELLED FOR

MEXICO / HONDURAS / BELIZE / GUATEMALA / NICARAGUA / PANAMA /  
COSTA RICA / COLOMBIA / CAYMAN ISLANDS / ARUBA / CURACAO /  
BONAIRE

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY  
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE  
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM TSUNAMI HEIGHT	WAVE PERIOD (MIN)
	LAT	LO N (UTC)			
DART 44401	37.6N	50.0W	1511	0.09M/ 0.3FT	28
MALIN HEAD IE	55.4N	7.3W	1458	0.49M/ 1.6FT	27
DAKAR SN	14.7N	17.4W	1437	0.76M/ 2.5FT	27
NOUAKCHOTT MA	18.1N	15.9W	1422	0.68M/ 2.2FT	14
PALMEIRA CAPE VERDE	16.8N	23.0W	1344	0.94M/ 3.1FT	30
PONTA DELGADA PT	37.7N	25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N	8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N	17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N	5.6W	1145	1.82M/ 5.9FT	21

ALGECIRAS ES	36.2N 5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N 6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)  
 LON - LONGITUDE (E-EAST, W-WEST)  
 TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)  
 AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.  
 IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.  
 VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).  
 PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY HAVE ALREADY HAVE BEEN DESTRUCTIVE ALONG COASTS NEAR THE EARTHQUAKE EPICENTER.

BASED ON THESE DATA THE THREAT CONTINUES FOR SOME COASTAL AREAS OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
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BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR
	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR



	SANTO_DOMINGO	18.5N	69.9W	1816Z	26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N	71.1W	1752Z	26 MAR
	WEST_CAICOS	21.7N	72.5W	1805Z	26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N	62.8W	1754Z	26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N	60.6W	1801Z	26 MAR
	PORT_OF_SPAIN	10.6N	61.5W	1908Z	26 MAR
BAHAMAS	MAYAGUANA	22.3N	73.0W	1802Z	26 MAR
	SAN_SALVADOR	24.1N	74.5W	1808Z	26 MAR
	LONG_ISLAND	23.3N	75.1W	1821Z	26 MAR
	GREAT_INAGUA	20.9N	73.7W	1823Z	26 MAR
	EXUMA	23.6N	75.9W	1824Z	26 MAR
	CAT_ISLAND	24.4N	75.5W	1824Z	26 MAR
	ELEUTHERA_ISLAN	25.2N	76.1W	1829Z	26 MAR
	CROOKED_ISLAND	22.7N	74.1W	1834Z	26 MAR
	ANDROS_ISLAND	25.0N	77.9W	1835Z	26 MAR
	NASSAU	25.1N	77.4W	1847Z	26 MAR
	ABACO_ISLAND	26.6N	77.1W	1858Z	26 MAR
	FREEPORT	26.5N	78.8W	1859Z	26 MAR
	BIMINI	25.8N	79.3W	1912Z	26 MAR
GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z	26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR

MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

PTWC Message #7

WECA41 PHEB 261703  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 8...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1703 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
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AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014

COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM WAVE TSUNAMI PERIOD	
	LAT	LONG (UTC)		HEIGHT	(MIN)
DART 44401	37.6N	50.0W	1511	0.09M/ 0.3FT	28
MALIN HEAD IE	55.4N	7.3W	1458	0.49M/ 1.6FT	27
DAKAR SN	14.7N	17.4W	1437	0.76M/ 2.5FT	27
NOUAKCHOTT MA	18.1N	15.9W	1422	0.68M/ 2.2FT	14
PALMEIRA CAPE VERDE	16.8N	23.0W	1344	0.94M/ 3.1FT	30
PONTA DELGADA PT	37.7N	25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N	8.3W	1207	1.19M/ 3.9FT	22
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TARIFA ES	36.0N	5.6W	1145	1.82M/ 5.9FT	21
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 LON - LONGITUDE (E-EAST, W-WEST)  
 TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)  
 AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.  
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 PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

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BASED ON THESE DATA THE THREAT CONTINUES FOR SOME COASTAL AREAS OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

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LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR

DOMINICA	ROSEAU	15.3N	61.4W	1718Z	26 MAR
MONTserrat	PLYMOUTH	16.7N	62.2W	1718Z	26 MAR
BARBADOS	BRIDGETOWN	13.1N	59.6W	1718Z	26 MAR
SAINT LUCIA	CASTRIES	14.0N	61.0W	1719Z	26 MAR
GUADELOUPE	BASSE_TERRE	16.0N	61.7W	1722Z	26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N	63.0W	1723Z	26 MAR
SABA	SABA	17.6N	63.2W	1724Z	26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N	61.1W	1725Z	26 MAR
ANGUILLA	THE_VALLEY	18.3N	63.1W	1727Z	26 MAR
ANTIGUA	SAINT_JOHNS	17.1N	61.9W	1727Z	26 MAR
SAINT KITTS	BASSETERRE	17.3N	62.7W	1728Z	26 MAR
BARBUDA	PALMETTO_POINT	17.6N	61.9W	1728Z	26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N	63.1W	1731Z	26 MAR
SAINT VINCENT	KINGSTOWN	13.1N	61.2W	1736Z	26 MAR
BRAZIL	FORTALEZA	3.7S	38.5W	1746Z	26 MAR
	SAO_LUIS	2.5S	44.3W	2048Z	26 MAR
	ILHA_DE_MARACA	2.2N	50.5W	2210Z	26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N	68.3W	1751Z	26 MAR
	PUERTO_PLATA	19.8N	70.7W	1753Z	26 MAR
	SANTO_DOMINGO	18.5N	69.9W	1816Z	26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N	71.1W	1752Z	26 MAR
	WEST_CAICOS	21.7N	72.5W	1805Z	26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N	62.8W	1754Z	26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N	60.6W	1801Z	26 MAR
	PORT_OF_SPAIN	10.6N	61.5W	1908Z	26 MAR
BAHAMAS	MAYAGUANA	22.3N	73.0W	1802Z	26 MAR
	SAN_SALVADOR	24.1N	74.5W	1808Z	26 MAR
	LONG_ISLAND	23.3N	75.1W	1821Z	26 MAR
	GREAT_INAGUA	20.9N	73.7W	1823Z	26 MAR
	EXUMA	23.6N	75.9W	1824Z	26 MAR
	CAT_ISLAND	24.4N	75.5W	1824Z	26 MAR
	ELEUTHERA_ISLAN	25.2N	76.1W	1829Z	26 MAR
	CROOKED_ISLAND	22.7N	74.1W	1834Z	26 MAR
	ANDROS_ISLAND	25.0N	77.9W	1835Z	26 MAR
	NASSAU	25.1N	77.4W	1847Z	26 MAR
	ABACO_ISLAND	26.6N	77.1W	1858Z	26 MAR
	FREEPORT	26.5N	78.8W	1859Z	26 MAR
	BIMINI	25.8N	79.3W	1912Z	26 MAR
GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z	26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR

	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI  
WARNING CENTER FOR THIS EVENT AS MORE INFORMATION  
BECOMES AVAILABLE.

PTWC Message #9

WECA41 PHEB 261805  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 9...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1805 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
CUBA / FRENCH GUIANA / VENEZUELA / JAMAICA / GUYANA / SURINAME

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DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES LAT LON (UTC)	TIME OF MEASURE	MAXIMUM WAVE TSUNAMI PERIOD HEIGHT (MIN)
ESPERANZA VIEQUES P	18.1N 65.5W	1749	0.46M/ 1.5FT 29
YABUCOA PR	18.1N 65.8W	1747	0.50M/ 1.7FT 28
DART 41424	32.9N 72.5W	1745	0.07M/ 0.2FT 22
ARECIBO PR	18.5N 66.7W	1744	1.23M/ 4.0FT 31
LIMETREE VI	17.7N 64.8W	1744	0.51M/ 1.7FT 25
SAN JUAN PR	18.5N 66.1W	1740	1.07M/ 3.5FT 22
FORT DE FRANCE MQ	14.6N 61.1W	1740	0.49M/ 1.6FT 29
BRIDGEPORT BB	13.1N 59.6W	1733	0.97M/ 3.2FT 26
ASCENSION UK	7.9S 14.4W	1733	0.30M/ 1.0FT 27
ROSEAU DM	15.3N 61.4W	1733	0.61M/ 2.0FT 32
DART 41420	23.5N 67.3W	1730	0.11M/ 0.4FT 31
LE ROBERT MQ	14.7N 60.9W	1730	0.91M/ 3.0FT 29
POINT A PITRE GP	16.2N 61.5W	1730	0.94M/ 3.1FT 19
LE PRECHEUR MQ	14.8N 61.2W	1730	0.56M/ 1.8FT 24
DESHAIES GP	16.3N 61.8W	1729	0.72M/ 2.4FT 23
PORT ST CHARLES BB	13.3N 59.6W	1728	1.31M/ 4.3FT 16
DART 44402	39.5N 70.6W	1728	0.07M/ 0.2FT 21
PARHAM AG	17.1N 61.8W	1724	0.96M/ 3.1FT 24
DESIRADE GP	16.3N 61.1W	1715	0.89M/ 2.9FT 30
DART 41421	23.4N 63.9W	1708	0.11M/ 0.3FT 22
BERMUDA UK	32.4N 64.7W	1706	1.83M/ 6.0FT 27
DART 44401	37.6N 50.0W	1511	0.09M/ 0.3FT 28
MALIN HEAD IE	55.4N 7.3W	1458	0.49M/ 1.6FT 27
DAKAR SN	14.7N 17.4W	1437	0.76M/ 2.5FT 27
NOUAKCHOTT MA	18.1N 15.9W	1422	0.68M/ 2.2FT 14
PALMEIRA CAPE VERDE	16.8N 23.0W	1344	0.94M/ 3.1FT 30

PONTA DELGADA PT	37.7N 25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N 8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N 17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N 5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N 5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N 6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)

LON - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

## EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED THAT IS NOW IMPACTING SOME PARTS OF THE CARIBBEAN REGION.

BASED ON THESE DATA THE THREAT CONTINUES FOR SOME COASTAL AREAS OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR

	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR
	SANTO_DOMINGO	18.5N 69.9W	1816Z 26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N 71.1W	1752Z 26 MAR
	WEST_CAICOS	21.7N 72.5W	1805Z 26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N 62.8W	1754Z 26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1801Z 26 MAR
	PORT_OF_SPAIN	10.6N 61.5W	1908Z 26 MAR
BAHAMAS	MAYAGUANA	22.3N 73.0W	1802Z 26 MAR
	SAN_SALVADOR	24.1N 74.5W	1808Z 26 MAR
	LONG_ISLAND	23.3N 75.1W	1821Z 26 MAR
	GREAT_INAGUA	20.9N 73.7W	1823Z 26 MAR
	EXUMA	23.6N 75.9W	1824Z 26 MAR
	CAT_ISLAND	24.4N 75.5W	1824Z 26 MAR
	ELEUTHERA_ISLAN	25.2N 76.1W	1829Z 26 MAR
	CROOKED_ISLAND	22.7N 74.1W	1834Z 26 MAR
	ANDROS_ISLAND	25.0N 77.9W	1835Z 26 MAR
	NASSAU	25.1N 77.4W	1847Z 26 MAR
	ABACO_ISLAND	26.6N 77.1W	1858Z 26 MAR
	FREEPORT	26.5N 78.8W	1859Z 26 MAR
	BIMINI	25.8N 79.3W	1912Z 26 MAR
GRENADA	SAINT_GEORGES	12.0N 61.8W	1803Z 26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N 63.0W	1805Z 26 MAR
HAITI	CAP_HAITEN	19.8N 72.2W	1809Z 26 MAR
	JACAMEL	18.1N 72.5W	1835Z 26 MAR
	JEREMIE	18.6N 74.1W	1841Z 26 MAR
	PORT_AU_PRINCE	18.5N 72.4W	1934Z 26 MAR
BONAIRE	ONIMA	12.3N 68.3W	1823Z 26 MAR
CUBA	BARACOA	20.4N 74.5W	1827Z 26 MAR
	GIBARA	21.1N 76.1W	1837Z 26 MAR
	SANTIAGO_D_CUBA	19.9N 75.8W	1844Z 26 MAR
	CIENFUEGOS	22.0N 80.5W	1937Z 26 MAR
	LA_HABANA	23.2N 82.4W	2025Z 26 MAR
	SANTA_CRZ_D_SUR	20.7N 78.0W	2201Z 26 MAR
	NUEVA_GERONA	21.9N 82.8W	2339Z 26 MAR
ARUBA	ORANJESTAD	12.5N 70.0W	1837Z 26 MAR
FRENCH GUIANA	CAYENNE	4.9N 52.3W	1847Z 26 MAR
VENEZUELA	MAIQUETIA	10.6N 67.0W	1850Z 26 MAR
	CUMANA	10.5N 64.2W	1903Z 26 MAR
	PUNTO_FIJO	11.7N 70.2W	2104Z 26 MAR
	PORLAMAR	10.9N 63.8W	2157Z 26 MAR
	GOLFO_VENEZUELA	11.4N 71.2W	2203Z 26 MAR
CURACAO	WILLEMSTAD	12.1N 68.9W	1857Z 26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N 79.9W	1915Z 26 MAR
	GRAND_CAYMAN	19.3N 81.3W	1931Z 26 MAR
COLOMBIA	SANTA_MARTA	11.2N 74.2W	1922Z 26 MAR
	CARTAGENA	10.4N 75.6W	1938Z 26 MAR
	BARRANQUILLA	11.1N 74.9W	1947Z 26 MAR
	RIOHACHA	11.6N 72.9W	1951Z 26 MAR
	PUNTA_CARIBANA	8.6N 76.9W	2022Z 26 MAR
JAMAICA	MONTEGO_BAY	18.5N 77.9W	1926Z 26 MAR
	KINGSTON	17.9N 76.9W	1943Z 26 MAR
PANAMA	ALIGANDI	9.2N 78.0W	2000Z 26 MAR
	PUERTO_CARRETO	8.8N 77.6W	2006Z 26 MAR



	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI  
WARNING CENTER FOR THIS EVENT AS MORE INFORMATION  
BECOMES AVAILABLE.

PTWC Message #10

WECA41 PHEB 261905  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 10...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
1905 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
CUBA / FRENCH GUIANA / VENEZUELA / JAMAICA / GUYANA / SURINAME

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY  
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE  
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
 COORDINATES - 36.0 NORTH 10.8 WEST  
 LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
 MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM WAVE TSUNAMI PERIOD	
	LAT	Lon (UTC)		HEIGHT	(MIN)
LAGOS NG	6.4N	3.4E	1849	0.14M/ 0.4FT	21
BARAHONA DO	18.2N	71.1W	1839	0.24M/ 0.8FT	16
ILE ROYAL GUIANA FR	5.3N	52.6W	1837	1.05M/ 3.5FT	30
CAP HAITIEN HT	19.8N	72.2W	1824	0.71M/ 2.3FT	16
TAKORADI GA	4.9N	1.7W	1821	0.21M/ 0.7FT	17
PRICKLEY BAY GD	12.0N	61.8W	1818	0.45M/ 1.5FT	15
CHARLOTTE-AMALIE VI	18.3N	64.9W	1818	0.53M/ 1.7FT	21
CULEBRA IS PR	18.3N	65.3W	1817	0.58M/ 1.9FT	19
CHARLOTTEVILLE TT	11.3N	60.5W	1816	0.77M/ 2.5FT	16
DART 42407	15.3N	68.2W	1815	0.03M/ 0.1FT	28
FORTALEZA BR	3.7S	38.5W	1815	0.78M/ 2.6FT	22
MAGUEYES ISLAND PR	18.0N	67.0W	1814	0.44M/ 1.4FT	20
FAJARDO PR	18.3N	65.6W	1813	0.74M/ 2.4FT	22
ALEXANDRIA EG	31.2N	29.9E	1808	0.01M/ 0.0FT	29
PUERTO PLATA DO	19.8N	70.7W	1808	0.78M/ 2.6FT	31
LAMESHUR BAY VI	18.3N	64.7W	1807	0.52M/ 1.7FT	26
SCARBOROUGH TT	11.2N	60.7W	1807	0.77M/ 2.5FT	18
PUNTA CANA DO	18.5N	68.4W	1805	0.83M/ 2.7FT	26
MONA ISLAND PR	18.1N	67.9W	1802	0.61M/ 2.0FT	30
ISABELII VIEQUES PR	18.2N	65.4W	1801	0.58M/ 1.9FT	19
PENUELAS PR	18.0N	66.8W	1800	0.42M/ 1.4FT	29
AGUADILLA PR	18.5N	67.2W	1753	1.02M/ 3.4FT	22
MAYAGUEZ PR	18.2N	67.2W	1752	0.94M/ 3.1FT	23
BARBUDA AG	17.6N	61.8W	1752	0.96M/ 3.1FT	25
ESPERANZA VIEQUES P	18.1N	65.5W	1749	0.46M/ 1.5FT	29
YABUCOA PR	18.1N	65.8W	1747	0.50M/ 1.7FT	28
DART 41424	32.9N	72.5W	1745	0.07M/ 0.2FT	22
ARECIBO PR	18.5N	66.7W	1744	1.23M/ 4.0FT	31
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ASCENSION UK	7.9S	14.4W	1733	0.30M/ 1.0FT	27
ROSEAU DM	15.3N	61.4W	1733	0.61M/ 2.0FT	32
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PORT ST CHARLES BB	13.3N	59.6W	1728	1.31M/ 4.3FT	16
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PARHAM AG	17.1N	61.8W	1724	0.96M/ 3.1FT	24
DESIRADE GP	16.3N	61.1W	1715	0.89M/ 2.9FT	30

DART 41421	23.4N 63.9W	1708	0.11M/ 0.3FT	22
BERMUDA UK	32.4N 64.7W	1706	1.83M/ 6.0FT	27
DART 44401	37.6N 50.0W	1511	0.09M/ 0.3FT	28
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LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTSERRAT	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR

ANTIGUA	SAINT_JOHNS	17.1N	61.9W	1727Z	26 MAR
SAINT KITTS	BASSETERRE	17.3N	62.7W	1728Z	26 MAR
BARBUDA	PALMETTO_POINT	17.6N	61.9W	1728Z	26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N	63.1W	1731Z	26 MAR
SAINT VINCENT	KINGSTOWN	13.1N	61.2W	1736Z	26 MAR
BRAZIL	FORTALEZA	3.7S	38.5W	1746Z	26 MAR
	SAO_LUIS	2.5S	44.3W	2048Z	26 MAR
	ILHA_DE_MARACA	2.2N	50.5W	2210Z	26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N	68.3W	1751Z	26 MAR
	PUERTO_PLATA	19.8N	70.7W	1753Z	26 MAR
	SANTO_DOMINGO	18.5N	69.9W	1816Z	26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N	71.1W	1752Z	26 MAR
	WEST_CAICOS	21.7N	72.5W	1805Z	26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N	62.8W	1754Z	26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N	60.6W	1801Z	26 MAR
	PORT_OF_SPAIN	10.6N	61.5W	1908Z	26 MAR
BAHAMAS	MAYAGUANA	22.3N	73.0W	1802Z	26 MAR
	SAN_SALVADOR	24.1N	74.5W	1808Z	26 MAR
	LONG_ISLAND	23.3N	75.1W	1821Z	26 MAR
	GREAT_INAGUA	20.9N	73.7W	1823Z	26 MAR
	EXUMA	23.6N	75.9W	1824Z	26 MAR
	CAT_ISLAND	24.4N	75.5W	1824Z	26 MAR
	ELEUTHERA_ISLAN	25.2N	76.1W	1829Z	26 MAR
	CROOKED_ISLAND	22.7N	74.1W	1834Z	26 MAR
	ANDROS_ISLAND	25.0N	77.9W	1835Z	26 MAR
	NASSAU	25.1N	77.4W	1847Z	26 MAR
	ABACO_ISLAND	26.6N	77.1W	1858Z	26 MAR
	FREEPORT	26.5N	78.8W	1859Z	26 MAR
	BIMINI	25.8N	79.3W	1912Z	26 MAR
	GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR

	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI  
WARNING CENTER FOR THIS EVENT AS MORE INFORMATION  
BECOMES AVAILABLE.

PTWC Message #11

WECA41 PHEB 262002  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 11...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
2002 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
CUBA / FRENCH GUIANA / VENEZUELA / JAMAICA / GUYANA / SURINAME

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
 COORDINATES - 36.0 NORTH 10.8 WEST  
 LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
 MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM TSUNAMI HEIGHT (MIN)	WAVE PERIOD
	LAT	LONG (UTC)			
BORDEN FLATS LT MA	41.7N	71.2W	1952	0.57M/ 1.9FT	23
CAPE MAY NJ	39.0N	74.9W	1949	0.60M/ 2.0FT	22
KINGS POINT NY	40.8N	73.8W	1948	0.60M/ 2.0FT	31
BEAUFORT NC	34.7N	76.7W	1946	0.68M/ 2.2FT	16
BRIDGEPORT CT	41.2N	73.2W	1945	0.73M/ 2.4FT	18
ATLANTIC CITY NJ	39.4N	74.4W	1944	0.69M/ 2.2FT	20
WACHAPREAGUE VA	37.6N	75.7W	1943	0.64M/ 2.1FT	25
MONTAUK NY	41.0N	72.0W	1940	0.73M/ 2.4FT	16
SETTLEMENT PT BS	26.7N	79.0W	1939	0.60M/ 2.0FT	26
SANTA MARTA CO	11.2N	74.2W	1937	0.21M/ 0.7FT	25
OREGON INLET NC	35.8N	75.5W	1932	0.79M/ 2.6FT	28
PORT OF SPAIN TT	10.6N	61.5W	1923	0.64M/ 2.1FT	18
OCEAN CITY MD	38.3N	75.1W	1920	0.74M/ 2.4FT	23
NEW HAVEN CT	41.3N	72.9W	1917	0.73M/ 2.4FT	21
DUCK PIER NC	36.2N	75.7W	1914	0.76M/ 2.5FT	18
NANTUCKET ISLAND MA	41.3N	70.1W	1913	0.57M/ 1.9FT	15
SAINT HELENA UK	15.9S	5.7W	1910	0.28M/ 0.9FT	30
TORTOLA VI UK	18.4N	64.6W	1855	0.49M/ 1.6FT	22
HATTERAS NC	35.2N	75.7W	1854	0.79M/ 2.6FT	17
PORT SAN ANDRES DO	18.4N	69.6W	1852	0.34M/ 1.1FT	31
LAGOS NG	6.4N	3.4E	1849	0.14M/ 0.4FT	21
BARAHONA DO	18.2N	71.1W	1839	0.24M/ 0.8FT	16
ILE ROYAL GUIANA FR	5.3N	52.6W	1837	1.05M/ 3.5FT	30
CAP HAITIEN HT	19.8N	72.2W	1824	0.71M/ 2.3FT	16
TAKORADI GA	4.9N	1.7W	1821	0.21M/ 0.7FT	17
PRICKLEY BAY GD	12.0N	61.8W	1818	0.45M/ 1.5FT	15
CHARLOTTE-AMALIE VI	18.3N	64.9W	1818	0.53M/ 1.7FT	21
CULEBRA IS PR	18.3N	65.3W	1817	0.58M/ 1.9FT	19
CHARLOTTEVILLE TT	11.3N	60.5W	1816	0.77M/ 2.5FT	16
DART 42407	15.3N	68.2W	1815	0.03M/ 0.1FT	28
FORTALEZA BR	3.7S	38.5W	1815	0.78M/ 2.6FT	22
MAGUEYES ISLAND PR	18.0N	67.0W	1814	0.44M/ 1.4FT	20
FAJARDO PR	18.3N	65.6W	1813	0.74M/ 2.4FT	22
ALEXANDRIA EG	31.2N	29.9E	1808	0.01M/ 0.0FT	29
PUERTO PLATA DO	19.8N	70.7W	1808	0.78M/ 2.6FT	31
LAMESHUR BAY VI	18.3N	64.7W	1807	0.52M/ 1.7FT	26

SCARBOROUGH TT	11.2N 60.7W	1807	0.77M/ 2.5FT	18
PUNTA CANA DO	18.5N 68.4W	1805	0.83M/ 2.7FT	26
MONA ISLAND PR	18.1N 67.9W	1802	0.61M/ 2.0FT	30
ISABELII VIEQUES PR	18.2N 65.4W	1801	0.58M/ 1.9FT	19
PENUELAS PR	18.0N 66.8W	1800	0.42M/ 1.4FT	29
AGUADILLA PR	18.5N 67.2W	1753	1.02M/ 3.4FT	22
MAYAGUEZ PR	18.2N 67.2W	1752	0.94M/ 3.1FT	23
BARBUDA AG	17.6N 61.8W	1752	0.96M/ 3.1FT	25
ESPERANZA VIEQUES P	18.1N 65.5W	1749	0.46M/ 1.5FT	29
YABUCOA PR	18.1N 65.8W	1747	0.50M/ 1.7FT	28
DART 41424	32.9N 72.5W	1745	0.07M/ 0.2FT	22
ARECIBO PR	18.5N 66.7W	1744	1.23M/ 4.0FT	31
LIMETREE VI	17.7N 64.8W	1744	0.51M/ 1.7FT	25
SAN JUAN PR	18.5N 66.1W	1740	1.07M/ 3.5FT	22
FORT DE FRANCE MQ	14.6N 61.1W	1740	0.49M/ 1.6FT	29
BRIDGEPORT BB	13.1N 59.6W	1733	0.97M/ 3.2FT	26
ASCENSION UK	7.9S 14.4W	1733	0.30M/ 1.0FT	27
ROSEAU DM	15.3N 61.4W	1733	0.61M/ 2.0FT	32
DART 41420	23.5N 67.3W	1730	0.11M/ 0.4FT	31
LE ROBERT MQ	14.7N 60.9W	1730	0.91M/ 3.0FT	29
POINT A PITRE GP	16.2N 61.5W	1730	0.94M/ 3.1FT	19
LE PRECHEUR MQ	14.8N 61.2W	1730	0.56M/ 1.8FT	24
DESHAIES GP	16.3N 61.8W	1729	0.72M/ 2.4FT	23
PORT ST CHARLES BB	13.3N 59.6W	1728	1.31M/ 4.3FT	16
DART 44402	39.5N 70.6W	1728	0.07M/ 0.2FT	21
PARHAM AG	17.1N 61.8W	1724	0.96M/ 3.1FT	24
DESIRADE GP	16.3N 61.1W	1715	0.89M/ 2.9FT	30
DART 41421	23.4N 63.9W	1708	0.11M/ 0.3FT	22
BERMUDA UK	32.4N 64.7W	1706	1.83M/ 6.0FT	27
DART 44401	37.6N 50.0W	1511	0.09M/ 0.3FT	28
MALIN HEAD IE	55.4N 7.3W	1458	0.49M/ 1.6FT	27
DAKAR SN	14.7N 17.4W	1437	0.76M/ 2.5FT	27
NOUAKCHOTT MA	18.1N 15.9W	1422	0.68M/ 2.2FT	14
PALMEIRA CAPE VERDE	16.8N 23.0W	1344	0.94M/ 3.1FT	30
PONTA DELGADA PT	37.7N 25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N 8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N 17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N 5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N 5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N 6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)

LON - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

## EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED THAT IS NOW IMPACTING SOME PARTS OF THE CARIBBEAN REGION.

BASED ON THESE DATA THE THREAT CONTINUES FOR SOME COASTAL AREAS

OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR
	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR
	SANTO_DOMINGO	18.5N 69.9W	1816Z 26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N 71.1W	1752Z 26 MAR
	WEST_CAICOS	21.7N 72.5W	1805Z 26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N 62.8W	1754Z 26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1801Z 26 MAR
	PORT_OF_SPAIN	10.6N 61.5W	1908Z 26 MAR
BAHAMAS	MAYAGUANA	22.3N 73.0W	1802Z 26 MAR
	SAN_SALVADOR	24.1N 74.5W	1808Z 26 MAR
	LONG_ISLAND	23.3N 75.1W	1821Z 26 MAR
	GREAT_INAGUA	20.9N 73.7W	1823Z 26 MAR
	EXUMA	23.6N 75.9W	1824Z 26 MAR
	CAT_ISLAND	24.4N 75.5W	1824Z 26 MAR
	ELEUTHERA_ISLAN	25.2N 76.1W	1829Z 26 MAR
	CROOKED_ISLAND	22.7N 74.1W	1834Z 26 MAR
	ANDROS_ISLAND	25.0N 77.9W	1835Z 26 MAR
	NASSAU	25.1N 77.4W	1847Z 26 MAR
ABACO_ISLAND	26.6N 77.1W	1858Z 26 MAR	
	FREEMPORT	26.5N 78.8W	1859Z 26 MAR



	BIMINI	25.8N	79.3W	1912Z	26 MAR
GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z	26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
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CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
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	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI  
WARNING CENTER FOR THIS EVENT AS MORE INFORMATION

BECOMES AVAILABLE.

PTWC Message #12

WECA41 PHEB 262101  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 12...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
2101 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
CUBA / FRENCH GUIANA / VENEZUELA / JAMAICA / GUYANA / SURINAME

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DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM TSUNAMI HEIGHT (MIN)	WAVE PERIOD
	LAT	LONG (UTC)			
TRIDENT PIER FL	28.4N	80.6W	2047	1.32M/ 4.3FT	31
CHARLESTON SC	32.8N	79.9W	2046	0.70M/ 2.3FT	18
NEW BOLD PA	40.1N	74.8W	2035	0.65M/ 2.1FT	17
BERGEN POINT NY	40.6N	74.1W	2035	0.60M/ 2.0FT	20
KIPTOPEKE VA	37.2N	76.0W	2033	0.74M/ 2.4FT	30
EL PORVENIR PM	9.6N	78.9W	2027	0.15M/ 0.5FT	26
SAN ANDRES CO	12.6N	81.7W	2026	0.13M/ 0.4FT	17
POINTE NOIRE CG	4.8S	11.8E	2026	0.26M/ 0.8FT	26

WILMINGTON NC	34.2N	78.0W	2020	0.72M/ 2.3FT	21
BRANDYWINE DE	39.0N	75.1W	2019	0.69M/ 2.2FT	21
CHESAPEAKE BAY VA	37.0N	76.1W	2017	0.76M/ 2.5FT	23
WRIGHT BEACH NC	34.2N	77.8W	2017	0.72M/ 2.3FT	17
QUONSET POINT RI	41.6N	71.4W	2017	0.53M/ 1.7FT	25
PROVIDENCE RI	41.8N	71.4W	2017	0.53M/ 1.7FT	29
NEWPORT RI	41.5N	71.3W	2007	0.53M/ 1.7FT	25
CONIMICUT LIGHT RI	41.7N	71.3W	2007	0.53M/ 1.7FT	31
BOSTON MA	42.4N	71.1W	2007	0.67M/ 2.2FT	24
SANDY HOOK NJ	40.5N	74.0W	2006	0.60M/ 2.0FT	17
BATTERY THE NY	40.7N	74.0W	2006	0.60M/ 2.0FT	32
PORT SONARA CM	4.0N	9.1E	2005	0.14M/ 0.5FT	21
BURLINGTON NJ	40.1N	74.9W	2001	0.74M/ 2.4FT	17
VIRGINIA KEY FL	25.7N	80.2W	1959	0.22M/ 0.7FT	24
LEWES DE	38.8N	75.1W	1954	0.69M/ 2.2FT	19
BORDEN FLATS LT MA	41.7N	71.2W	1952	0.57M/ 1.9FT	23
CAPE MAY NJ	39.0N	74.9W	1949	0.60M/ 2.0FT	22
KINGS POINT NY	40.8N	73.8W	1948	0.60M/ 2.0FT	31
BEAUFORT NC	34.7N	76.7W	1946	0.68M/ 2.2FT	16
BRIDGEPORT CT	41.2N	73.2W	1945	0.73M/ 2.4FT	18
ATLANTIC CITY NJ	39.4N	74.4W	1944	0.69M/ 2.2FT	20
WACHAPREAGUE VA	37.6N	75.7W	1943	0.64M/ 2.1FT	25
MONTAUK NY	41.0N	72.0W	1940	0.73M/ 2.4FT	16
SETTLEMENT PT BS	26.7N	79.0W	1939	0.60M/ 2.0FT	26
SANTA MARTA CO	11.2N	74.2W	1937	0.21M/ 0.7FT	25
OREGON INLET NC	35.8N	75.5W	1932	0.79M/ 2.6FT	28
PORT OF SPAIN TT	10.6N	61.5W	1923	0.64M/ 2.1FT	18
OCEAN CITY MD	38.3N	75.1W	1920	0.74M/ 2.4FT	23
NEW HAVEN CT	41.3N	72.9W	1917	0.73M/ 2.4FT	21
DUCK PIER NC	36.2N	75.7W	1914	0.76M/ 2.5FT	18
NANTUCKET ISLAND MA	41.3N	70.1W	1913	0.57M/ 1.9FT	15
SAINT HELENA UK	15.9S	5.7W	1910	0.28M/ 0.9FT	30
TORTOLA VI UK	18.4N	64.6W	1855	0.49M/ 1.6FT	22
HATTERAS NC	35.2N	75.7W	1854	0.79M/ 2.6FT	17
PORT SAN ANDRES DO	18.4N	69.6W	1852	0.34M/ 1.1FT	31
LAGOS NG	6.4N	3.4E	1849	0.14M/ 0.4FT	21
BARAHONA DO	18.2N	71.1W	1839	0.24M/ 0.8FT	16
ILE ROYAL GUIANA FR	5.3N	52.6W	1837	1.05M/ 3.5FT	30
CAP HAITIEN HT	19.8N	72.2W	1824	0.71M/ 2.3FT	16
TAKORADI GA	4.9N	1.7W	1821	0.21M/ 0.7FT	17
PRICKLEY BAY GD	12.0N	61.8W	1818	0.45M/ 1.5FT	15
CHARLOTTE-AMALIE VI	18.3N	64.9W	1818	0.53M/ 1.7FT	21
CULEBRA IS PR	18.3N	65.3W	1817	0.58M/ 1.9FT	19
CHARLOTTEVILLE TT	11.3N	60.5W	1816	0.77M/ 2.5FT	16
DART 42407	15.3N	68.2W	1815	0.03M/ 0.1FT	28
FORTALEZA BR	3.7S	38.5W	1815	0.78M/ 2.6FT	22
MAGUEYES ISLAND PR	18.0N	67.0W	1814	0.44M/ 1.4FT	20
FAJARDO PR	18.3N	65.6W	1813	0.74M/ 2.4FT	22
ALEXANDRIA EG	31.2N	29.9E	1808	0.01M/ 0.0FT	29
PUERTO PLATA DO	19.8N	70.7W	1808	0.78M/ 2.6FT	31
LAMESHUR BAY VI	18.3N	64.7W	1807	0.52M/ 1.7FT	26
SCARBOROUGH TT	11.2N	60.7W	1807	0.77M/ 2.5FT	18
PUNTA CANA DO	18.5N	68.4W	1805	0.83M/ 2.7FT	26
MONA ISLAND PR	18.1N	67.9W	1802	0.61M/ 2.0FT	30
ISABELII VIEQUES PR	18.2N	65.4W	1801	0.58M/ 1.9FT	19

PENUELAS PR	18.0N 66.8W	1800	0.42M/ 1.4FT	29
AGUADILLA PR	18.5N 67.2W	1753	1.02M/ 3.4FT	22
MAYAGUEZ PR	18.2N 67.2W	1752	0.94M/ 3.1FT	23
BARBUDA AG	17.6N 61.8W	1752	0.96M/ 3.1FT	25
ESPERANZA VIEQUES P	18.1N 65.5W	1749	0.46M/ 1.5FT	29
YABUCOA PR	18.1N 65.8W	1747	0.50M/ 1.7FT	28
DART 41424	32.9N 72.5W	1745	0.07M/ 0.2FT	22
ARECIBO PR	18.5N 66.7W	1744	1.23M/ 4.0FT	31
LIMETREE VI	17.7N 64.8W	1744	0.51M/ 1.7FT	25
SAN JUAN PR	18.5N 66.1W	1740	1.07M/ 3.5FT	22
FORT DE FRANCE MQ	14.6N 61.1W	1740	0.49M/ 1.6FT	29
BRIDGEPORT BB	13.1N 59.6W	1733	0.97M/ 3.2FT	26
ASCENSION UK	7.9S 14.4W	1733	0.30M/ 1.0FT	27
ROSEAU DM	15.3N 61.4W	1733	0.61M/ 2.0FT	32
DART 41420	23.5N 67.3W	1730	0.11M/ 0.4FT	31
LE ROBERT MQ	14.7N 60.9W	1730	0.91M/ 3.0FT	29
POINT A PITRE GP	16.2N 61.5W	1730	0.94M/ 3.1FT	19
LE PRECHEUR MQ	14.8N 61.2W	1730	0.56M/ 1.8FT	24
DESHAIES GP	16.3N 61.8W	1729	0.72M/ 2.4FT	23
PORT ST CHARLES BB	13.3N 59.6W	1728	1.31M/ 4.3FT	16
DART 44402	39.5N 70.6W	1728	0.07M/ 0.2FT	21
PARHAM AG	17.1N 61.8W	1724	0.96M/ 3.1FT	24
DESIRADE GP	16.3N 61.1W	1715	0.89M/ 2.9FT	30
DART 41421	23.4N 63.9W	1708	0.11M/ 0.3FT	22
BERMUDA UK	32.4N 64.7W	1706	1.83M/ 6.0FT	27
DART 44401	37.6N 50.0W	1511	0.09M/ 0.3FT	28
MALIN HEAD IE	55.4N 7.3W	1458	0.49M/ 1.6FT	27
DAKAR SN	14.7N 17.4W	1437	0.76M/ 2.5FT	27
NOUAKCHOTT MA	18.1N 15.9W	1422	0.68M/ 2.2FT	14
PALMEIRA CAPE VERDE	16.8N 23.0W	1344	0.94M/ 3.1FT	30
PONTA DELGADA PT	37.7N 25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N 8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N 17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N 5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N 5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N 6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)

LON - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

## EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED THAT IS NOW IMPACTING SOME PARTS OF THE CARIBBEAN REGION.

BASED ON THESE DATA THE THREAT CONTINUES FOR SOME COASTAL AREAS OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO

BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR
	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR
	SANTO_DOMINGO	18.5N 69.9W	1816Z 26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N 71.1W	1752Z 26 MAR
	WEST_CAICOS	21.7N 72.5W	1805Z 26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N 62.8W	1754Z 26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1801Z 26 MAR
	PORT_OF_SPAIN	10.6N 61.5W	1908Z 26 MAR
BAHAMAS	MAYAGUANA	22.3N 73.0W	1802Z 26 MAR
	SAN_SALVADOR	24.1N 74.5W	1808Z 26 MAR
	LONG_ISLAND	23.3N 75.1W	1821Z 26 MAR
	GREAT_INAGUA	20.9N 73.7W	1823Z 26 MAR
	EXUMA	23.6N 75.9W	1824Z 26 MAR
	CAT_ISLAND	24.4N 75.5W	1824Z 26 MAR
	ELEUTHERA_ISLAN	25.2N 76.1W	1829Z 26 MAR
	CROOKED_ISLAND	22.7N 74.1W	1834Z 26 MAR
	ANDROS_ISLAND	25.0N 77.9W	1835Z 26 MAR
	NASSAU	25.1N 77.4W	1847Z 26 MAR
ABACO ISLAND	ABACO_ISLAND	26.6N 77.1W	1858Z 26 MAR
	FREEPOR	26.5N 78.8W	1859Z 26 MAR
	BIMINI	25.8N 79.3W	1912Z 26 MAR
GRENADA	SAINT_GEORGES	12.0N 61.8W	1803Z 26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N 63.0W	1805Z 26 MAR
HAITI	CAP_HAITEN	19.8N 72.2W	1809Z 26 MAR

	JACAMEL	18.1N 72.5W	1835Z 26 MAR
	JEREMIE	18.6N 74.1W	1841Z 26 MAR
	PORT_AU_PRINCE	18.5N 72.4W	1934Z 26 MAR
BONAIRE	ONIMA	12.3N 68.3W	1823Z 26 MAR
CUBA	BARACOA	20.4N 74.5W	1827Z 26 MAR
	GIBARA	21.1N 76.1W	1837Z 26 MAR
	SANTIAGO_D_CUBA	19.9N 75.8W	1844Z 26 MAR
	CIENFUEGOS	22.0N 80.5W	1937Z 26 MAR
	LA_HABANA	23.2N 82.4W	2025Z 26 MAR
	SANTA_CRZ_D_SUR	20.7N 78.0W	2201Z 26 MAR
	NUEVA_GERONA	21.9N 82.8W	2339Z 26 MAR
ARUBA	ORANJESTAD	12.5N 70.0W	1837Z 26 MAR
FRENCH GUIANA	CAYENNE	4.9N 52.3W	1847Z 26 MAR
VENEZUELA	MAIQUETIA	10.6N 67.0W	1850Z 26 MAR
	CUMANA	10.5N 64.2W	1903Z 26 MAR
	PUNTO_FIJO	11.7N 70.2W	2104Z 26 MAR
	PORLAMAR	10.9N 63.8W	2157Z 26 MAR
	GOLFO_VENEZUELA	11.4N 71.2W	2203Z 26 MAR
CURACAO	WILLEMSTAD	12.1N 68.9W	1857Z 26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N 79.9W	1915Z 26 MAR
	GRAND_CAYMAN	19.3N 81.3W	1931Z 26 MAR
COLOMBIA	SANTA_MARTA	11.2N 74.2W	1922Z 26 MAR
	CARTAGENA	10.4N 75.6W	1938Z 26 MAR
	BARRANQUILLA	11.1N 74.9W	1947Z 26 MAR
	RIOHACHA	11.6N 72.9W	1951Z 26 MAR
	PUNTA_CARIBANA	8.6N 76.9W	2022Z 26 MAR
JAMAICA	MONTEGO_BAY	18.5N 77.9W	1926Z 26 MAR
	KINGSTON	17.9N 76.9W	1943Z 26 MAR
PANAMA	ALIGANDI	9.2N 78.0W	2000Z 26 MAR
	PUERTO_CARRETO	8.8N 77.6W	2006Z 26 MAR
	PUERTO_OBALDIA	8.7N 77.4W	2018Z 26 MAR
	COLON	9.4N 79.9W	2040Z 26 MAR
	BOCAS_DEL_TORO	9.4N 82.2W	2052Z 26 MAR
MEXICO	COZUMEL	20.5N 87.0W	2028Z 26 MAR
	MADERO	22.3N 97.8W	2308Z 26 MAR
	VERACRUZ	19.2N 96.1W	2313Z 26 MAR
	TEXAS_BORDER	26.0N 97.1W	2323Z 26 MAR
	PROGRESO	21.3N 89.7W	0014Z 27 MAR
	CAMPECHE	19.9N 90.5W	0310Z 27 MAR
HONDURAS	PUERTO_CORTES	15.9N 88.0W	2032Z 26 MAR
	TRUJILLO	15.9N 86.0W	2119Z 26 MAR
GUYANA	GEORGETOWN	6.8N 58.2W	2033Z 26 MAR
SURINAME	PARAMARIBO	5.9N 55.2W	2033Z 26 MAR
COSTA RICA	PUERTO_LIMON	10.0N 83.0W	2038Z 26 MAR
NICARAGUA	PUNTA_GORDA	11.4N 83.8W	2130Z 26 MAR
	PUERTO_CABEZAS	14.0N 83.4W	0057Z 27 MAR
BELIZE	BELIZE_CITY	17.5N 88.2W	2142Z 26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N 88.6W	2225Z 26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

WECA41 PHEB 262201  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 13...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
2201 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
CUBA / FRENCH GUIANA / VENEZUELA / JAMAICA / GUYANA / SURINAME

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY  
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE  
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES LAT LON (UTC)	TIME OF MEASURE	MAXIMUM TSUNAMI HEIGHT (MIN)	WAVE PERIOD
MONEY POINT VA	36.8N 76.3W	2144	0.81M/ 2.6FT	29
SALVADOR BR	12.9S 38.7W	2132	0.26M/ 0.9FT	17
KEY WEST FL	24.6N 81.8W	2126	0.10M/ 0.3FT	18
DART 42429	27.4N 85.7W	2124	0.00M/ 0.0FT	27
NEW LONDON CT	41.4N 72.1W	2122	0.73M/ 2.4FT	16
DART 42409	26.7N 85.8W	2116	0.00M/ 0.0FT	16
SEWELLS POINT VA	36.9N 76.3W	2107	0.76M/ 2.5FT	19
VACA KEY FL	24.7N 81.1W	2106	0.14M/ 0.5FT	14
PUERTO MORELOS MX	21.4N 86.8W	2106	0.04M/ 0.1FT	21
SPRINGMAID PIER SC	33.7N 78.9W	2057	0.63M/ 2.1FT	14
LIMON CR	10.0N 83.0W	2053	0.18M/ 0.6FT	27
TRIDENT PIER FL	28.4N 80.6W	2047	1.32M/ 4.3FT	31

CHARLESTON SC	32.8N	79.9W	2046	0.70M/ 2.3FT	18
NEW BOLD PA	40.1N	74.8W	2035	0.65M/ 2.1FT	17
BERGEN POINT NY	40.6N	74.1W	2035	0.60M/ 2.0FT	20
KIPTOPEKE VA	37.2N	76.0W	2033	0.74M/ 2.4FT	30
EL PORVENIR PM	9.6N	78.9W	2027	0.15M/ 0.5FT	26
SAN ANDRES CO	12.6N	81.7W	2026	0.13M/ 0.4FT	17
POINTE NOIRE CG	4.8S	11.8E	2026	0.26M/ 0.8FT	26
WILMINGTON NC	34.2N	78.0W	2020	0.72M/ 2.3FT	21
BRANDYWINE DE	39.0N	75.1W	2019	0.69M/ 2.2FT	21
CHESAPEAKE BAY VA	37.0N	76.1W	2017	0.76M/ 2.5FT	23
WRIGHT BEACH NC	34.2N	77.8W	2017	0.72M/ 2.3FT	17
QUONSET POINT RI	41.6N	71.4W	2017	0.53M/ 1.7FT	25
PROVIDENCE RI	41.8N	71.4W	2017	0.53M/ 1.7FT	29
NEWPORT RI	41.5N	71.3W	2007	0.53M/ 1.7FT	25
CONIMICUT LIGHT RI	41.7N	71.3W	2007	0.53M/ 1.7FT	31
BOSTON MA	42.4N	71.1W	2007	0.67M/ 2.2FT	24
SANDY HOOK NJ	40.5N	74.0W	2006	0.60M/ 2.0FT	17
BATTERY THE NY	40.7N	74.0W	2006	0.60M/ 2.0FT	32
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BURLINGTON NJ	40.1N	74.9W	2001	0.74M/ 2.4FT	17
VIRGINIA KEY FL	25.7N	80.2W	1959	0.22M/ 0.7FT	24
LEWES DE	38.8N	75.1W	1954	0.69M/ 2.2FT	19
BORDEN FLATS LT MA	41.7N	71.2W	1952	0.57M/ 1.9FT	23
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SETTLEMENT PT BS	26.7N	79.0W	1939	0.60M/ 2.0FT	26
SANTA MARTA CO	11.2N	74.2W	1937	0.21M/ 0.7FT	25
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LAGOS NG	6.4N	3.4E	1849	0.14M/ 0.4FT	21
BARAHONA DO	18.2N	71.1W	1839	0.24M/ 0.8FT	16
ILE ROYAL GUIANA FR	5.3N	52.6W	1837	1.05M/ 3.5FT	30
CAP HAITIEN HT	19.8N	72.2W	1824	0.71M/ 2.3FT	16
TAKORADI GA	4.9N	1.7W	1821	0.21M/ 0.7FT	17
PRICKLEY BAY GD	12.0N	61.8W	1818	0.45M/ 1.5FT	15
CHARLOTTE-AMALIE VI	18.3N	64.9W	1818	0.53M/ 1.7FT	21
CULEBRA IS PR	18.3N	65.3W	1817	0.58M/ 1.9FT	19
CHARLOTTEVILLE TT	11.3N	60.5W	1816	0.77M/ 2.5FT	16
DART 42407	15.3N	68.2W	1815	0.03M/ 0.1FT	28
FORTALEZA BR	3.7S	38.5W	1815	0.78M/ 2.6FT	22
MAGUEYES ISLAND PR	18.0N	67.0W	1814	0.44M/ 1.4FT	20
FAJARDO PR	18.3N	65.6W	1813	0.74M/ 2.4FT	22



ALEXANDRIA EG	31.2N	29.9E	1808	0.01M/ 0.0FT	29
PUERTO PLATA DO	19.8N	70.7W	1808	0.78M/ 2.6FT	31
LAMESHUR BAY VI	18.3N	64.7W	1807	0.52M/ 1.7FT	26
SCARBOROUGH TT	11.2N	60.7W	1807	0.77M/ 2.5FT	18
PUNTA CANA DO	18.5N	68.4W	1805	0.83M/ 2.7FT	26
MONA ISLAND PR	18.1N	67.9W	1802	0.61M/ 2.0FT	30
ISABELII VIEQUES PR	18.2N	65.4W	1801	0.58M/ 1.9FT	19
PENUELAS PR	18.0N	66.8W	1800	0.42M/ 1.4FT	29
AGUADILLA PR	18.5N	67.2W	1753	1.02M/ 3.4FT	22
MAYAGUEZ PR	18.2N	67.2W	1752	0.94M/ 3.1FT	23
BARBUDA AG	17.6N	61.8W	1752	0.96M/ 3.1FT	25
ESPERANZA VIEQUES P	18.1N	65.5W	1749	0.46M/ 1.5FT	29
YABUCOA PR	18.1N	65.8W	1747	0.50M/ 1.7FT	28
DART 41424	32.9N	72.5W	1745	0.07M/ 0.2FT	22
ARECIBO PR	18.5N	66.7W	1744	1.23M/ 4.0FT	31
LIMETREE VI	17.7N	64.8W	1744	0.51M/ 1.7FT	25
SAN JUAN PR	18.5N	66.1W	1740	1.07M/ 3.5FT	22
FORT DE FRANCE MQ	14.6N	61.1W	1740	0.49M/ 1.6FT	29
BRIDGEPORT BB	13.1N	59.6W	1733	0.97M/ 3.2FT	26
ASCENSION UK	7.9S	14.4W	1733	0.30M/ 1.0FT	27
ROSEAU DM	15.3N	61.4W	1733	0.61M/ 2.0FT	32
DART 41420	23.5N	67.3W	1730	0.11M/ 0.4FT	31
LE ROBERT MQ	14.7N	60.9W	1730	0.91M/ 3.0FT	29
POINT A PITRE GP	16.2N	61.5W	1730	0.94M/ 3.1FT	19
LE PRECHEUR MQ	14.8N	61.2W	1730	0.56M/ 1.8FT	24
DESHAIES GP	16.3N	61.8W	1729	0.72M/ 2.4FT	23
PORT ST CHARLES BB	13.3N	59.6W	1728	1.31M/ 4.3FT	16
DART 44402	39.5N	70.6W	1728	0.07M/ 0.2FT	21
PARHAM AG	17.1N	61.8W	1724	0.96M/ 3.1FT	24
DESIRADE GP	16.3N	61.1W	1715	0.89M/ 2.9FT	30
DART 41421	23.4N	63.9W	1708	0.11M/ 0.3FT	22
BERMUDA UK	32.4N	64.7W	1706	1.83M/ 6.0FT	27
DART 44401	37.6N	50.0W	1511	0.09M/ 0.3FT	28
MALIN HEAD IE	55.4N	7.3W	1458	0.49M/ 1.6FT	27
DAKAR SN	14.7N	17.4W	1437	0.76M/ 2.5FT	27
NOUAKCHOTT MA	18.1N	15.9W	1422	0.68M/ 2.2FT	14
PALMEIRA CAPE VERDE	16.8N	23.0W	1344	0.94M/ 3.1FT	30
PONTA DELGADA PT	37.7N	25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N	8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N	17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N	5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N	5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N	6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)

LON - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

## EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED THAT IS NOW

IMPACTING SOME PARTS OF THE CARIBBEAN REGION.

BASED ON THESE DATA THE THREAT CONTINUES FOR SOME COASTAL AREAS OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR
	ILHA_DE_MARACA	2.2N 50.5W	2210Z 26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N 68.3W	1751Z 26 MAR
	PUERTO_PLATA	19.8N 70.7W	1753Z 26 MAR
	SANTO_DOMINGO	18.5N 69.9W	1816Z 26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N 71.1W	1752Z 26 MAR
	WEST_CAICOS	21.7N 72.5W	1805Z 26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N 62.8W	1754Z 26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1801Z 26 MAR
	PORT_OF_SPAIN	10.6N 61.5W	1908Z 26 MAR
BAHAMAS	MAYAGUANA	22.3N 73.0W	1802Z 26 MAR
	SAN_SALVADOR	24.1N 74.5W	1808Z 26 MAR
	LONG_ISLAND	23.3N 75.1W	1821Z 26 MAR
	GREAT_INAGUA	20.9N 73.7W	1823Z 26 MAR
	EXUMA	23.6N 75.9W	1824Z 26 MAR
	CAT_ISLAND	24.4N 75.5W	1824Z 26 MAR
	ELEUTHERA_ISLAN	25.2N 76.1W	1829Z 26 MAR
CROOKED_ISLAND	22.7N 74.1W	1834Z 26 MAR	
	ANDROS_ISLAND	25.0N 77.9W	1835Z 26 MAR

	NASSAU	25.1N	77.4W	1847Z	26 MAR
	ABACO_ISLAND	26.6N	77.1W	1858Z	26 MAR
	FREEMPORT	26.5N	78.8W	1859Z	26 MAR
	BIMINI	25.8N	79.3W	1912Z	26 MAR
GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z	26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR
	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

PTWC Message #14

WECA41 PHEB 262300  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 14...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
2300 UTC TUE MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... A CARIBBEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

ADDITIONAL TSUNAMI OBSERVATIONS ARE INCLUDED IN THIS MESSAGE.

A TSUNAMI WATCH REMAINS IN EFFECT FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
CUBA / FRENCH GUIANA / VENEZUELA / JAMAICA / GUYANA / SURINAME

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
COORDINATES - 36.0 NORTH 10.8 WEST  
LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES LAT LON (UTC)	TIME OF MEASURE	MAXIMUM TSUNAMI HEIGHT	WAVE PERIOD (MIN)
-----				
WALVIS BAY NA	22.9S 14.5E	2248	0.18M/ 0.6FT	17
PILOTS STATION LA	28.9N 89.4W	2228	0.01M/ 0.0FT	24
TRISTAN DA CUNHA UK	37.0S 12.3W	2155	0.21M/ 0.7FT	28
TACONY PALMYRA BR NJ	40.0N 75.0W	2154	0.68M/ 2.2FT	15
REEDY POINT DE	39.6N 75.6W	2154	0.69M/ 2.2FT	24

PHILADELPHIA PA	39.9N	75.1W	2154	0.69M/ 2.2FT	23
MARCUS HOOK PA	39.8N	75.4W	2154	0.69M/ 2.2FT	31
DELAWARE CITY DE	39.6N	75.6W	2154	0.69M/ 2.2FT	27
CHESAPEAKE CITY MD	39.5N	75.8W	2154	0.60M/ 2.0FT	24
SHIP JOHN SHOAL NJ	39.3N	75.4W	2149	0.60M/ 2.0FT	30
WOODS HOLE MA	41.5N	70.7W	2149	0.67M/ 2.2FT	25
MONEY POINT VA	36.8N	76.3W	2144	0.81M/ 2.6FT	29
SALVADOR BR	12.9S	38.7W	2132	0.26M/ 0.9FT	17
KEY WEST FL	24.6N	81.8W	2126	0.10M/ 0.3FT	18
DART 42429	27.4N	85.7W	2124	0.00M/ 0.0FT	27
NEW LONDON CT	41.4N	72.1W	2122	0.73M/ 2.4FT	16
DART 42409	26.7N	85.8W	2116	0.00M/ 0.0FT	16
SEWELLS POINT VA	36.9N	76.3W	2107	0.76M/ 2.5FT	19
VACA KEY FL	24.7N	81.1W	2106	0.14M/ 0.5FT	14
PUERTO MORELOS MX	21.4N	86.8W	2106	0.04M/ 0.1FT	21
SPRINGMAID PIER SC	33.7N	78.9W	2057	0.63M/ 2.1FT	14
LIMON CR	10.0N	83.0W	2053	0.18M/ 0.6FT	27
TRIDENT PIER FL	28.4N	80.6W	2047	1.32M/ 4.3FT	31
CHARLESTON SC	32.8N	79.9W	2046	0.70M/ 2.3FT	18
NEW BOLD PA	40.1N	74.8W	2035	0.65M/ 2.1FT	17
BERGEN POINT NY	40.6N	74.1W	2035	0.60M/ 2.0FT	20
KIPTOPEKE VA	37.2N	76.0W	2033	0.74M/ 2.4FT	30
EL PORVENIR PM	9.6N	78.9W	2027	0.15M/ 0.5FT	26
SAN ANDRES CO	12.6N	81.7W	2026	0.13M/ 0.4FT	17
POINTE NOIRE CG	4.8S	11.8E	2026	0.26M/ 0.8FT	26
WILMINGTON NC	34.2N	78.0W	2020	0.72M/ 2.3FT	21
BRANDYWINE DE	39.0N	75.1W	2019	0.69M/ 2.2FT	21
CHESAPEAKE BAY VA	37.0N	76.1W	2017	0.76M/ 2.5FT	23
WRIGHT BEACH NC	34.2N	77.8W	2017	0.72M/ 2.3FT	17
QUONSET POINT RI	41.6N	71.4W	2017	0.53M/ 1.7FT	25
PROVIDENCE RI	41.8N	71.4W	2017	0.53M/ 1.7FT	29
NEWPORT RI	41.5N	71.3W	2007	0.53M/ 1.7FT	25
CONIMICUT LIGHT RI	41.7N	71.3W	2007	0.53M/ 1.7FT	31
BOSTON MA	42.4N	71.1W	2007	0.67M/ 2.2FT	24
SANDY HOOK NJ	40.5N	74.0W	2006	0.60M/ 2.0FT	17
BATTERY THE NY	40.7N	74.0W	2006	0.60M/ 2.0FT	32
PORT SONARA CM	4.0N	9.1E	2005	0.14M/ 0.5FT	21
BURLINGTON NJ	40.1N	74.9W	2001	0.74M/ 2.4FT	17
VIRGINIA KEY FL	25.7N	80.2W	1959	0.22M/ 0.7FT	24
LEWES DE	38.8N	75.1W	1954	0.69M/ 2.2FT	19
BORDEN FLATS LT MA	41.7N	71.2W	1952	0.57M/ 1.9FT	23
CAPE MAY NJ	39.0N	74.9W	1949	0.60M/ 2.0FT	22
KINGS POINT NY	40.8N	73.8W	1948	0.60M/ 2.0FT	31
BEAUFORT NC	34.7N	76.7W	1946	0.68M/ 2.2FT	16
BRIDGEPORT CT	41.2N	73.2W	1945	0.73M/ 2.4FT	18
ATLANTIC CITY NJ	39.4N	74.4W	1944	0.69M/ 2.2FT	20
WACHAPREAGUE VA	37.6N	75.7W	1943	0.64M/ 2.1FT	25
MONTAUK NY	41.0N	72.0W	1940	0.73M/ 2.4FT	16
SETTLEMENT PT BS	26.7N	79.0W	1939	0.60M/ 2.0FT	26
SANTA MARTA CO	11.2N	74.2W	1937	0.21M/ 0.7FT	25
OREGON INLET NC	35.8N	75.5W	1932	0.79M/ 2.6FT	28
PORT OF SPAIN TT	10.6N	61.5W	1923	0.64M/ 2.1FT	18
OCEAN CITY MD	38.3N	75.1W	1920	0.74M/ 2.4FT	23
NEW HAVEN CT	41.3N	72.9W	1917	0.73M/ 2.4FT	21
DUCK PIER NC	36.2N	75.7W	1914	0.76M/ 2.5FT	18

NANTUCKET ISLAND MA	41.3N 70.1W	1913	0.57M/ 1.9FT	15
SAINT HELENA UK	15.9S 5.7W	1910	0.28M/ 0.9FT	30
TORTOLA VI UK	18.4N 64.6W	1855	0.49M/ 1.6FT	22
HATTERAS NC	35.2N 75.7W	1854	0.79M/ 2.6FT	17
PORT SAN ANDRES DO	18.4N 69.6W	1852	0.34M/ 1.1FT	31
LAGOS NG	6.4N 3.4E	1849	0.14M/ 0.4FT	21
BARAHONA DO	18.2N 71.1W	1839	0.24M/ 0.8FT	16
ILE ROYAL GUIANA FR	5.3N 52.6W	1837	1.05M/ 3.5FT	30
CAP HAITIEN HT	19.8N 72.2W	1824	0.71M/ 2.3FT	16
TAKORADI GA	4.9N 1.7W	1821	0.21M/ 0.7FT	17
PRICKLEY BAY GD	12.0N 61.8W	1818	0.45M/ 1.5FT	15
CHARLOTTE-AMALIE VI	18.3N 64.9W	1818	0.53M/ 1.7FT	21
CULEBRA IS PR	18.3N 65.3W	1817	0.58M/ 1.9FT	19
CHARLOTTEVILLE TT	11.3N 60.5W	1816	0.77M/ 2.5FT	16
DART 42407	15.3N 68.2W	1815	0.03M/ 0.1FT	28
FORTALEZA BR	3.7S 38.5W	1815	0.78M/ 2.6FT	22
MAGUEYES ISLAND PR	18.0N 67.0W	1814	0.44M/ 1.4FT	20
FAJARDO PR	18.3N 65.6W	1813	0.74M/ 2.4FT	22
ALEXANDRIA EG	31.2N 29.9E	1808	0.01M/ 0.0FT	29
PUERTO PLATA DO	19.8N 70.7W	1808	0.78M/ 2.6FT	31
LAMESHUR BAY VI	18.3N 64.7W	1807	0.52M/ 1.7FT	26
SCARBOROUGH TT	11.2N 60.7W	1807	0.77M/ 2.5FT	18
PUNTA CANA DO	18.5N 68.4W	1805	0.83M/ 2.7FT	26
MONA ISLAND PR	18.1N 67.9W	1802	0.61M/ 2.0FT	30
ISABELII VIEQUES PR	18.2N 65.4W	1801	0.58M/ 1.9FT	19
PENUELAS PR	18.0N 66.8W	1800	0.42M/ 1.4FT	29
AGUADILLA PR	18.5N 67.2W	1753	1.02M/ 3.4FT	22
MAYAGUEZ PR	18.2N 67.2W	1752	0.94M/ 3.1FT	23
BARBUDA AG	17.6N 61.8W	1752	0.96M/ 3.1FT	25
ESPERANZA VIEQUES P	18.1N 65.5W	1749	0.46M/ 1.5FT	29
YABUCOA PR	18.1N 65.8W	1747	0.50M/ 1.7FT	28
DART 41424	32.9N 72.5W	1745	0.07M/ 0.2FT	22
ARECIBO PR	18.5N 66.7W	1744	1.23M/ 4.0FT	31
LIMETREE VI	17.7N 64.8W	1744	0.51M/ 1.7FT	25
SAN JUAN PR	18.5N 66.1W	1740	1.07M/ 3.5FT	22
FORT DE FRANCE MQ	14.6N 61.1W	1740	0.49M/ 1.6FT	29
BRIDGEPORT BB	13.1N 59.6W	1733	0.97M/ 3.2FT	26
ASCENSION UK	7.9S 14.4W	1733	0.30M/ 1.0FT	27
ROSEAU DM	15.3N 61.4W	1733	0.61M/ 2.0FT	32
DART 41420	23.5N 67.3W	1730	0.11M/ 0.4FT	31
LE ROBERT MQ	14.7N 60.9W	1730	0.91M/ 3.0FT	29
POINT A PITRE GP	16.2N 61.5W	1730	0.94M/ 3.1FT	19
LE PRECHEUR MQ	14.8N 61.2W	1730	0.56M/ 1.8FT	24
DESHAIES GP	16.3N 61.8W	1729	0.72M/ 2.4FT	23
PORT ST CHARLES BB	13.3N 59.6W	1728	1.31M/ 4.3FT	16
DART 44402	39.5N 70.6W	1728	0.07M/ 0.2FT	21
PARHAM AG	17.1N 61.8W	1724	0.96M/ 3.1FT	24
DESIRADE GP	16.3N 61.1W	1715	0.89M/ 2.9FT	30
DART 41421	23.4N 63.9W	1708	0.11M/ 0.3FT	22
BERMUDA UK	32.4N 64.7W	1706	1.83M/ 6.0FT	27
DART 44401	37.6N 50.0W	1511	0.09M/ 0.3FT	28
MALIN HEAD IE	55.4N 7.3W	1458	0.49M/ 1.6FT	27
DAKAR SN	14.7N 17.4W	1437	0.76M/ 2.5FT	27
NOUAKCHOTT MA	18.1N 15.9W	1422	0.68M/ 2.2FT	14
PALMEIRA CAPE VERDE	16.8N 23.0W	1344	0.94M/ 3.1FT	30

PONTA DELGADA PT	37.7N 25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N 8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N 17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N 5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N 5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N 6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)

LON - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

#### EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED THAT IS NOW IMPACTING SOME PARTS OF THE CARIBBEAN REGION.

BASED ON THESE DATA THE THREAT CONTINUES FOR SOME COASTAL AREAS OF THE CARIBBEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS 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 SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BERMUDA	RUTHS_BAY	32.4N 64.6W	1647Z 26 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1718Z 26 MAR
MONTserrat	PLYMOUTH	16.7N 62.2W	1718Z 26 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1718Z 26 MAR
SAINT LUCIA	CASTRIES	14.0N 61.0W	1719Z 26 MAR
GUADELOUPE	BASSE_TERRE	16.0N 61.7W	1722Z 26 MAR
SINT EUSTATIUS	SINT_EUSTATIUS	17.5N 63.0W	1723Z 26 MAR
SABA	SABA	17.6N 63.2W	1724Z 26 MAR
MARTINIQUE	FORT_DE_FRANCE	14.6N 61.1W	1725Z 26 MAR
ANGUILLA	THE_VALLEY	18.3N 63.1W	1727Z 26 MAR
ANTIGUA	SAINT_JOHNS	17.1N 61.9W	1727Z 26 MAR
SAINT KITTS	BASSETERRE	17.3N 62.7W	1728Z 26 MAR
BARBUDA	PALMETTO_POINT	17.6N 61.9W	1728Z 26 MAR
SINT MAARTEN	SIMPSON_BAAI	18.0N 63.1W	1731Z 26 MAR
SAINT VINCENT	KINGSTOWN	13.1N 61.2W	1736Z 26 MAR
BRAZIL	FORTALEZA	3.7S 38.5W	1746Z 26 MAR
	SAO_LUIS	2.5S 44.3W	2048Z 26 MAR

	ILHA_DE_MARACA	2.2N	50.5W	2210Z	26 MAR
DOMINICAN REP	CABO_ENGANO	18.6N	68.3W	1751Z	26 MAR
	PUERTO_PLATA	19.8N	70.7W	1753Z	26 MAR
	SANTO_DOMINGO	18.5N	69.9W	1816Z	26 MAR
TURKS N CAICOS	GRAND_TURK	21.5N	71.1W	1752Z	26 MAR
	WEST_CAICOS	21.7N	72.5W	1805Z	26 MAR
SAINT BARTHELEM	SAINT_BARTHELEM	17.9N	62.8W	1754Z	26 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N	60.6W	1801Z	26 MAR
	PORT_OF_SPAIN	10.6N	61.5W	1908Z	26 MAR
BAHAMAS	MAYAGUANA	22.3N	73.0W	1802Z	26 MAR
	SAN_SALVADOR	24.1N	74.5W	1808Z	26 MAR
	LONG_ISLAND	23.3N	75.1W	1821Z	26 MAR
	GREAT_INAGUA	20.9N	73.7W	1823Z	26 MAR
	EXUMA	23.6N	75.9W	1824Z	26 MAR
	CAT_ISLAND	24.4N	75.5W	1824Z	26 MAR
	ELEUTHERA_ISLAN	25.2N	76.1W	1829Z	26 MAR
	CROOKED_ISLAND	22.7N	74.1W	1834Z	26 MAR
	ANDROS_ISLAND	25.0N	77.9W	1835Z	26 MAR
	NASSAU	25.1N	77.4W	1847Z	26 MAR
	ABACO_ISLAND	26.6N	77.1W	1858Z	26 MAR
	FREEPORT	26.5N	78.8W	1859Z	26 MAR
	BIMINI	25.8N	79.3W	1912Z	26 MAR
GRENADA	SAINT_GEORGES	12.0N	61.8W	1803Z	26 MAR
SAINT MARTIN	BAIE_BLANCHE	18.1N	63.0W	1805Z	26 MAR
HAITI	CAP_HAITEN	19.8N	72.2W	1809Z	26 MAR
	JACAMEL	18.1N	72.5W	1835Z	26 MAR
	JEREMIE	18.6N	74.1W	1841Z	26 MAR
	PORT_AU_PRINCE	18.5N	72.4W	1934Z	26 MAR
BONAIRE	ONIMA	12.3N	68.3W	1823Z	26 MAR
CUBA	BARACOA	20.4N	74.5W	1827Z	26 MAR
	GIBARA	21.1N	76.1W	1837Z	26 MAR
	SANTIAGO_D_CUBA	19.9N	75.8W	1844Z	26 MAR
	CIENFUEGOS	22.0N	80.5W	1937Z	26 MAR
	LA_HABANA	23.2N	82.4W	2025Z	26 MAR
	SANTA_CRZ_D_SUR	20.7N	78.0W	2201Z	26 MAR
	NUEVA_GERONA	21.9N	82.8W	2339Z	26 MAR
ARUBA	ORANJESTAD	12.5N	70.0W	1837Z	26 MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1847Z	26 MAR
VENEZUELA	MAIQUETIA	10.6N	67.0W	1850Z	26 MAR
	CUMANA	10.5N	64.2W	1903Z	26 MAR
	PUNTO_FIJO	11.7N	70.2W	2104Z	26 MAR
	PORLAMAR	10.9N	63.8W	2157Z	26 MAR
	GOLFO_VENEZUELA	11.4N	71.2W	2203Z	26 MAR
CURACAO	WILLEMSTAD	12.1N	68.9W	1857Z	26 MAR
CAYMAN ISLANDS	CAYMAN_BRAC	19.7N	79.9W	1915Z	26 MAR
	GRAND_CAYMAN	19.3N	81.3W	1931Z	26 MAR
COLOMBIA	SANTA_MARTA	11.2N	74.2W	1922Z	26 MAR
	CARTAGENA	10.4N	75.6W	1938Z	26 MAR
	BARRANQUILLA	11.1N	74.9W	1947Z	26 MAR
	RIOHACHA	11.6N	72.9W	1951Z	26 MAR
	PUNTA_CARIBANA	8.6N	76.9W	2022Z	26 MAR
JAMAICA	MONTEGO_BAY	18.5N	77.9W	1926Z	26 MAR
	KINGSTON	17.9N	76.9W	1943Z	26 MAR
PANAMA	ALIGANDI	9.2N	78.0W	2000Z	26 MAR
	PUERTO_CARRETO	8.8N	77.6W	2006Z	26 MAR



	PUERTO_OBALDIA	8.7N	77.4W	2018Z	26 MAR
	COLON	9.4N	79.9W	2040Z	26 MAR
	BOCAS_DEL_TORO	9.4N	82.2W	2052Z	26 MAR
MEXICO	COZUMEL	20.5N	87.0W	2028Z	26 MAR
	MADERO	22.3N	97.8W	2308Z	26 MAR
	VERACRUZ	19.2N	96.1W	2313Z	26 MAR
	TEXAS_BORDER	26.0N	97.1W	2323Z	26 MAR
	PROGRESO	21.3N	89.7W	0014Z	27 MAR
	CAMPECHE	19.9N	90.5W	0310Z	27 MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	2032Z	26 MAR
	TRUJILLO	15.9N	86.0W	2119Z	26 MAR
GUYANA	GEORGETOWN	6.8N	58.2W	2033Z	26 MAR
SURINAME	PARAMARIBO	5.9N	55.2W	2033Z	26 MAR
COSTA RICA	PUERTO_LIMON	10.0N	83.0W	2038Z	26 MAR
NICARAGUA	PUNTA_GORDA	11.4N	83.8W	2130Z	26 MAR
	PUERTO_CABEZAS	14.0N	83.4W	0057Z	27 MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	2142Z	26 MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	2225Z	26 MAR

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI  
WARNING CENTER FOR THIS EVENT AS MORE INFORMATION  
BECOMES AVAILABLE.

PTWC Message #15

WECA41 PHEB 262355  
TSUCAX

TEST...TSUNAMI MESSAGE NUMBER 15...TEST  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
2355 UTC WED MAR 26 2014

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE  
CARIBBEAN SEA...EXCEPT FOR PUERTO RICO...THE U.S. VIRGIN  
ISLANDS...AND THE BRITISH VIRGIN ISLANDS.

... THE TSUNAMI WATCH IS CANCELLED ...

THE TSUNAMI WATCH IS NOW CANCELLED FOR

BERMUDA / DOMINICA / MONTSERRAT / BARBADOS / SAINT LUCIA /  
GUADELOUPE / SINT EUSTATIUS / SABA / MARTINIQUE / ANGUILLA /  
ANTIGUA / SAINT KITTS / BARBUDA / SINT MAARTEN / SAINT VINCENT /  
BRAZIL / DOMINICAN REP / TURKS N CAICOS / SAINT BARTHELEMY /  
TRINIDAD TOBAGO / BAHAMAS / GRENADA / SAINT MARTIN / HAITI /  
CUBA / FRENCH GUIANA / VENEZUELA / JAMAICA / GUYANA / SURINAME

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY  
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE  
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND  
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1000Z 26 MAR 2014  
 COORDINATES - 36.0 NORTH 10.8 WEST  
 LOCATION - AZORES-CAPE ST. VINCENT RIDGE  
 MAGNITUDE - 8.5

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE	MAXIMUM WAVE TSUNAMI PERIOD	
	LAT	LONG (UTC)		HEIGHT	(MIN)
TUXPAN MX	21.0N	97.4W	2343	0.01M/ 0.0FT	29
VERACRUZ MX	19.2N	96.1W	2328	0.01M/ 0.0FT	19
CEDROS BAY TT	10.1N	61.9W	2322	0.64M/ 2.1FT	21
GRAND ISLE LA	29.3N	90.0W	2322	0.01M/ 0.0FT	24
PENSACOLA FL	30.4N	87.2W	2316	0.01M/ 0.0FT	22
FORT FOURCHON LA	29.1N	90.2W	2311	0.01M/ 0.0FT	19
POINT FORTIN TT	10.2N	61.4W	2253	1.05M/ 3.4FT	17
WALVIS BAY NA	22.9S	14.5E	2248	0.18M/ 0.6FT	17
PILOTS STATION LA	28.9N	89.4W	2228	0.01M/ 0.0FT	24
TRISTAN DA CUNHA UK	37.0S	12.3W	2155	0.21M/ 0.7FT	28
TACONY PALMYRA BR NJ	40.0N	75.0W	2154	0.68M/ 2.2FT	15
REEDY POINT DE	39.6N	75.6W	2154	0.69M/ 2.2FT	24
PHILADELPHIA PA	39.9N	75.1W	2154	0.69M/ 2.2FT	23
MARCUS HOOK PA	39.8N	75.4W	2154	0.69M/ 2.2FT	31
DELAWARE CITY DE	39.6N	75.6W	2154	0.69M/ 2.2FT	27
CHESAPEAKE CITY MD	39.5N	75.8W	2154	0.60M/ 2.0FT	24
SHIP JOHN SHOAL NJ	39.3N	75.4W	2149	0.60M/ 2.0FT	30
WOODS HOLE MA	41.5N	70.7W	2149	0.67M/ 2.2FT	25
MONEY POINT VA	36.8N	76.3W	2144	0.81M/ 2.6FT	29
SALVADOR BR	12.9S	38.7W	2132	0.26M/ 0.9FT	17
KEY WEST FL	24.6N	81.8W	2126	0.10M/ 0.3FT	18
DART 42429	27.4N	85.7W	2124	0.00M/ 0.0FT	27
NEW LONDON CT	41.4N	72.1W	2122	0.73M/ 2.4FT	16
DART 42409	26.7N	85.8W	2116	0.00M/ 0.0FT	16
SEWELLS POINT VA	36.9N	76.3W	2107	0.76M/ 2.5FT	19
VACA KEY FL	24.7N	81.1W	2106	0.14M/ 0.5FT	14
PUERTO MORELOS MX	21.4N	86.8W	2106	0.04M/ 0.1FT	21
SPRINGMAID PIER SC	33.7N	78.9W	2057	0.63M/ 2.1FT	14
LIMON CR	10.0N	83.0W	2053	0.18M/ 0.6FT	27
TRIDENT PIER FL	28.4N	80.6W	2047	1.32M/ 4.3FT	31
CHARLESTON SC	32.8N	79.9W	2046	0.70M/ 2.3FT	18
NEW BOLD PA	40.1N	74.8W	2035	0.65M/ 2.1FT	17
BERGEN POINT NY	40.6N	74.1W	2035	0.60M/ 2.0FT	20
KIPTOPEKE VA	37.2N	76.0W	2033	0.74M/ 2.4FT	30
EL PORVENIR PM	9.6N	78.9W	2027	0.15M/ 0.5FT	26
SAN ANDRES CO	12.6N	81.7W	2026	0.13M/ 0.4FT	17
POINTE NOIRE CG	4.8S	11.8E	2026	0.26M/ 0.8FT	26
WILMINGTON NC	34.2N	78.0W	2020	0.72M/ 2.3FT	21
BRANDYWINE DE	39.0N	75.1W	2019	0.69M/ 2.2FT	21
CHESAPEAKE BAY VA	37.0N	76.1W	2017	0.76M/ 2.5FT	23
WRIGHT BEACH NC	34.2N	77.8W	2017	0.72M/ 2.3FT	17
QUONSET POINT RI	41.6N	71.4W	2017	0.53M/ 1.7FT	25
PROVIDENCE RI	41.8N	71.4W	2017	0.53M/ 1.7FT	29
NEWPORT RI	41.5N	71.3W	2007	0.53M/ 1.7FT	25

CONIMICUT LIGHT RI	41.7N	71.3W	2007	0.53M/ 1.7FT	31
BOSTON MA	42.4N	71.1W	2007	0.67M/ 2.2FT	24
SANDY HOOK NJ	40.5N	74.0W	2006	0.60M/ 2.0FT	17
BATTERY THE NY	40.7N	74.0W	2006	0.60M/ 2.0FT	32
PORT SONARA CM	4.0N	9.1E	2005	0.14M/ 0.5FT	21
BURLINGTON NJ	40.1N	74.9W	2001	0.74M/ 2.4FT	17
VIRGINIA KEY FL	25.7N	80.2W	1959	0.22M/ 0.7FT	24
LEWES DE	38.8N	75.1W	1954	0.69M/ 2.2FT	19
BORDEN FLATS LT MA	41.7N	71.2W	1952	0.57M/ 1.9FT	23
CAPE MAY NJ	39.0N	74.9W	1949	0.60M/ 2.0FT	22
KINGS POINT NY	40.8N	73.8W	1948	0.60M/ 2.0FT	31
BEAUFORT NC	34.7N	76.7W	1946	0.68M/ 2.2FT	16
BRIDGEPORT CT	41.2N	73.2W	1945	0.73M/ 2.4FT	18
ATLANTIC CITY NJ	39.4N	74.4W	1944	0.69M/ 2.2FT	20
WACHAPREAGUE VA	37.6N	75.7W	1943	0.64M/ 2.1FT	25
MONTAUK NY	41.0N	72.0W	1940	0.73M/ 2.4FT	16
SETTLEMENT PT BS	26.7N	79.0W	1939	0.60M/ 2.0FT	26
SANTA MARTA CO	11.2N	74.2W	1937	0.21M/ 0.7FT	25
OREGON INLET NC	35.8N	75.5W	1932	0.79M/ 2.6FT	28
PORT OF SPAIN TT	10.6N	61.5W	1923	0.64M/ 2.1FT	18
OCEAN CITY MD	38.3N	75.1W	1920	0.74M/ 2.4FT	23
NEW HAVEN CT	41.3N	72.9W	1917	0.73M/ 2.4FT	21
DUCK PIER NC	36.2N	75.7W	1914	0.76M/ 2.5FT	18
NANTUCKET ISLAND MA	41.3N	70.1W	1913	0.57M/ 1.9FT	15
SAINT HELENA UK	15.9S	5.7W	1910	0.28M/ 0.9FT	30
TORTOLA VI UK	18.4N	64.6W	1855	0.49M/ 1.6FT	22
HATTERAS NC	35.2N	75.7W	1854	0.79M/ 2.6FT	17
PORT SAN ANDRES DO	18.4N	69.6W	1852	0.34M/ 1.1FT	31
LAGOS NG	6.4N	3.4E	1849	0.14M/ 0.4FT	21
BARAHONA DO	18.2N	71.1W	1839	0.24M/ 0.8FT	16
ILE ROYAL GUIANA FR	5.3N	52.6W	1837	1.05M/ 3.5FT	30
CAP HAITIEN HT	19.8N	72.2W	1824	0.71M/ 2.3FT	16
TAKORADI GA	4.9N	1.7W	1821	0.21M/ 0.7FT	17
PRICKLEY BAY GD	12.0N	61.8W	1818	0.45M/ 1.5FT	15
CHARLOTTE-AMALIE VI	18.3N	64.9W	1818	0.53M/ 1.7FT	21
CULEBRA IS PR	18.3N	65.3W	1817	0.58M/ 1.9FT	19
CHARLOTTEVILLE TT	11.3N	60.5W	1816	0.77M/ 2.5FT	16
DART 42407	15.3N	68.2W	1815	0.03M/ 0.1FT	28
FORTALEZA BR	3.7S	38.5W	1815	0.78M/ 2.6FT	22
MAGUEYES ISLAND PR	18.0N	67.0W	1814	0.44M/ 1.4FT	20
FAJARDO PR	18.3N	65.6W	1813	0.74M/ 2.4FT	22
ALEXANDRIA EG	31.2N	29.9E	1808	0.01M/ 0.0FT	29
PUERTO PLATA DO	19.8N	70.7W	1808	0.78M/ 2.6FT	31
LAMESHUR BAY VI	18.3N	64.7W	1807	0.52M/ 1.7FT	26
SCARBOROUGH TT	11.2N	60.7W	1807	0.77M/ 2.5FT	18
PUNTA CANA DO	18.5N	68.4W	1805	0.83M/ 2.7FT	26
MONA ISLAND PR	18.1N	67.9W	1802	0.61M/ 2.0FT	30
ISABELII VIEQUES PR	18.2N	65.4W	1801	0.58M/ 1.9FT	19
PENUELAS PR	18.0N	66.8W	1800	0.42M/ 1.4FT	29
AGUADILLA PR	18.5N	67.2W	1753	1.02M/ 3.4FT	22
MAYAGUEZ PR	18.2N	67.2W	1752	0.94M/ 3.1FT	23
BARBUDA AG	17.6N	61.8W	1752	0.96M/ 3.1FT	25
ESPERANZA VIEQUES P	18.1N	65.5W	1749	0.46M/ 1.5FT	29
YABUCOA PR	18.1N	65.8W	1747	0.50M/ 1.7FT	28
DART 41424	32.9N	72.5W	1745	0.07M/ 0.2FT	22

ARECIBO PR	18.5N 66.7W	1744	1.23M/ 4.0FT	31
LIMETREE VI	17.7N 64.8W	1744	0.51M/ 1.7FT	25
SAN JUAN PR	18.5N 66.1W	1740	1.07M/ 3.5FT	22
FORT DE FRANCE MQ	14.6N 61.1W	1740	0.49M/ 1.6FT	29
BRIDGEPORT BB	13.1N 59.6W	1733	0.97M/ 3.2FT	26
ASCENSION UK	7.9S 14.4W	1733	0.30M/ 1.0FT	27
ROSEAU DM	15.3N 61.4W	1733	0.61M/ 2.0FT	32
DART 41420	23.5N 67.3W	1730	0.11M/ 0.4FT	31
LE ROBERT MQ	14.7N 60.9W	1730	0.91M/ 3.0FT	29
POINT A PITRE GP	16.2N 61.5W	1730	0.94M/ 3.1FT	19
LE PRECHEUR MQ	14.8N 61.2W	1730	0.56M/ 1.8FT	24
DESHAIES GP	16.3N 61.8W	1729	0.72M/ 2.4FT	23
PORT ST CHARLES BB	13.3N 59.6W	1728	1.31M/ 4.3FT	16
DART 44402	39.5N 70.6W	1728	0.07M/ 0.2FT	21
PARHAM AG	17.1N 61.8W	1724	0.96M/ 3.1FT	24
DESIRADE GP	16.3N 61.1W	1715	0.89M/ 2.9FT	30
DART 41421	23.4N 63.9W	1708	0.11M/ 0.3FT	22
BERMUDA UK	32.4N 64.7W	1706	1.83M/ 6.0FT	27
DART 44401	37.6N 50.0W	1511	0.09M/ 0.3FT	28
MALIN HEAD IE	55.4N 7.3W	1458	0.49M/ 1.6FT	27
DAKAR SN	14.7N 17.4W	1437	0.76M/ 2.5FT	27
NOUAKCHOTT MA	18.1N 15.9W	1422	0.68M/ 2.2FT	14
PALMEIRA CAPE VERDE	16.8N 23.0W	1344	0.94M/ 3.1FT	30
PONTA DELGADA PT	37.7N 25.7W	1214	3.73M/12.2FT	23
FERROL ES	43.5N 8.3W	1207	1.19M/ 3.9FT	22
LA PALMA ES	28.7N 17.8W	1148	2.35M/ 7.7FT	15
TARIFA ES	36.0N 5.6W	1145	1.82M/ 5.9FT	21
ALGECIRAS ES	36.2N 5.4W	1138	0.89M/ 2.9FT	27
HUELVA ES	37.1N 6.8W	1130	2.18M/ 7.1FT	19

LAT - LATITUDE (N-NORTH, S-SOUTH)

LON - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

## EVALUATION

A SIGNIFICANT TSUNAMI WAS GENERATED BY THIS EARTHQUAKE.  
HOWEVER...SEA LEVEL READINGS NOW INDICATE THAT THE THREAT HAS  
DIMINISHED OR IS OVER FOR MOST AREAS. THEREFORE THE TSUNAMI  
WATCH ISSUED BY THIS CENTER IS NOW CANCELLED.

FOR ANY AFFECTED AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT  
LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES  
HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES  
CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL  
STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS.  
AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE  
ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL  
AUTHORITIES.

THIS WILL BE THE FINAL PRODUCT ISSUED BY THE PACIFIC TSUNAMI

WARNING CENTER FOR THIS EVENT UNLESS ADDITIONAL INFORMATION  
BECOMES AVAILABLE

ANNEX VI

**SAMPLE PRESS RELEASE FOR LOCAL MEDIA**

TEMPLATE FOR NEWS RELEASE

USE AGENCY MASTHEAD

Contact: (Insert name)

**FOR IMMEDIATE RELEASE**

(Insert phone number)

(Insert date)

(Insert email address)

**CARIBBEAN AND NORTHWESTERN ATLANTIC TSUNAMI EXERCISE  
TO BE CONDUCTED on 26 March 2014**

*(Insert community/county/state name)* will join other localities in the Caribbean and northern WESTERN Atlantic region as a participant in a tsunami exercise on 26 March 2014. The purpose of this exercise is to evaluate communication, test standard operations procedures, tsunami response plans, increase tsunami preparedness, and improve coordination throughout the region.

*(Insert a promotional comment from a local official, such as “The 2010 Haiti and Chile and 2011 Japan earthquakes and tsunamis have reminded the world again of the urgent need to be more prepared for such events,” said (insert name of appropriate official). “This important exercise will test the current procedures of the Tsunami Warning System and help identify operational strengths and weaknesses in each community.” (Please modify for uniqueness.)*

The exercise, titled Caribe Wave/Lantex 14, will simulate a widespread Tsunami Warning and Watch situation throughout the Caribbean and North-western Atlantic which requires implementation of local tsunami response plans. The exercise will *(insert “include” or “not include”)* public notification.

The exercise will simulate a major earthquake and tsunami generated 270 miles west of Gibraltar at 6:00 am Atlantic Standard Time *(or appropriate local time)* on 26 March 2014. A handbook has been prepared which describes the scenario and contains tsunami messages from the National Tsunami Warning Center (NTWC) and the Pacific Tsunami Warning Center (PTWC). The US NTWC is currently responsible for providing tsunami alerts to the Atlantic coasts of U.S. and Canada, the Gulf of Mexico coast, Puerto Rico, and the Virgin Islands (US and British) while the PTWC is the interim Regional Tsunami Watch Provider for the other countries in the Caribbean Sea and Adjacent Regions.

*Insert paragraph tailored for specific community. Could identify participating agencies and specific plans. Could describe current early warning program, past tsunami exercises (if any), ongoing mitigation and public education programs, etc. Could describe tsunami threat, history of tsunami hazards, if any.*

If any real tsunami threat occurs during the time period of the exercise, the exercise will be terminated.

The exercise is sponsored by the UNESCO/IOC Intergovernmental Coordination Group for Tsunami and Other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (ICG/CARIBE-EWS), the Caribbean Emergency Management Agency

(CDEMA), the Coordination Centre for the Prevention of Natural Disasters in Central America (CEPREDENAC), the U.S. National Oceanic and Atmospheric Administration (NOAA), and by the U.S. National Tsunami Hazard Mitigation Program (NTHMP – a partnership of 29 States and territories and three federal agencies). For more information on the U.S. tsunami warning system, see [www.tsunami.gov](http://www.tsunami.gov). For more information on the NTHMP, see [nthmp.tsunami.gov](http://nthmp.tsunami.gov). For more information on the ICG/CARIBE-EWS, see <http://www.ioc-tsunami.org>.

###

On the Web:

ICG/CARIBE EWS	<a href="http://www.ioc-tsunami.org">http://www.ioc-tsunami.org</a>
US National Tsunami Warning Center	<a href="http://ntwc.arh.noaa.gov">http://ntwc.arh.noaa.gov</a>
Pacific Tsunami Warning Center	<a href="http://ptwc.weather.gov">http://ptwc.weather.gov</a>
NOAA Tsunami Program	<a href="http://www.tsunami.gov">http://www.tsunami.gov</a>
NTHMP	<a href="http://nthmp.tsunami.gov">http://nthmp.tsunami.gov</a>
Caribbean Tsunami Warning Program	<a href="http://www.srh.noaa.gov/srh/ctwp/">http://www.srh.noaa.gov/srh/ctwp/</a>
Puerto Rico Seismic Network	<a href="http://prsn.uprm.edu">http://prsn.uprm.edu</a>
Insert state/local emergency response URLs	

ANNEX VII

**LIST OF ACRONYMS**

<b>AAR</b>	After Action Report
<b>AoR</b>	Areas of Responsibility
<b>ATFM</b>	Alaska Tsunami Forecast Model
<b>AWIPW</b>	Advanced Weather Interactive Processing System
<b>CDEMA</b>	Caribbean Disaster Emergency Management Agency
<b>CENALT</b>	CENtre d'Alerte aux Tsunamis (France)
<b>CEP</b>	Comprehensive Exercise Program
<b>CEPREDENAC</b>	Coordination Centre for the Prevention of Natural Disasters in Central America
<b>CTWP</b>	Candidate Tsunami Watch Provider
<b>EMO</b>	Emergency Management Organization
<b>EOP</b>	Emergency Operations Plan
<b>FUNVIVIS</b>	Fundación Venezolana de Investigaciones Sismológicas
<b>ICG/CARIBE-EWS</b>	Intergovernmental Coordination Group for the Tsunami and other Coastal Hazards Warning System for the Caribbean and Adjacent Regions
<b>ICG/NEAMTWS</b>	Intergovernmental Coordination Group for the Tsunami Early Warning and Mitigation System in the North-Eastern Atlantic, the Mediterranean and Connected Seas (UNESCO/IOC)
<b>INETER</b>	Instituto Nicaraguense de Estudios Territoriales
<b>IOC</b>	Intergovernmental Oceanographic Commission (UNESCO)
<b>IP</b>	Improvement Plan
<b>IPMA</b>	Instituto Português do Mar e da Atmosfera
<b>ITIC</b>	International Tsunami Information Centre
<b>NDMO</b>	National Disaster Management Office
<b>NGDC</b>	National Geophysical Data Center (NOAA)
<b>NOAA</b>	National Oceanic and Atmospheric Administration (U.S.A)
<b>NTHMP</b>	US National Tsunami Hazard Mitigation Program



<b>NTWC</b>	National Tsunami Warning Center
<b>NTWC</b>	National Tsunami Warning Center
<b>PR</b>	Puerto Rico
<b>PRSN</b>	The Puerto Rico Seismic Network
<b>PTWC</b>	Pacific Tsunami Warning Center
<b>RIFT</b>	Rapid Inundation Forecasting of Tsunamis model
<b>SIFT</b>	Short-term Inundation Forecasting of Tsunamis
<b>SOP</b>	Standard Operating Procedures
<b>TER</b>	Tsunami Emergency Response
<b>TIB</b>	Tsunami Information Bulletin
<b>TIS</b>	Tsunami Information Statement
<b>TWC</b>	Tsunami Warning Center
<b>TWFP</b>	Tsunami Warning Focal Point
<b>UNESCO</b>	United Nations Educational, Scientific and Cultural Organization
<b>USVI</b>	United States Virgin Islands
<b>UTC</b>	Universal Time Coordinated
<b>WFO</b>	Weather Forecast Offices
<b>WMO</b>	World Meteorological Organization

## EJERCICIO CARIBE WAVE/LANTEX 14

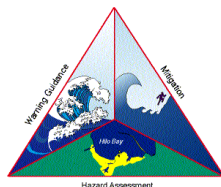
### Un ejercicio de alerta de tsunami en el Caribe y el Atlántico noroccidental

### Escenario de Portugal

26 marzo 2014

Volumen 1      Manual del participante

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UNESCO 2013

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Subcomité de coordinación de alertas del Programa nacional estadounidense de atenuación del riesgo de tsunami (NTHMP)

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<sup>2</sup> Los anexos IV, V y VII sólo están disponibles en inglés en la parte inglesa del documento.

## ÍNDICE

	Página
<b>RESUMEN .....</b>	<b>1</b>
<b>1. ANTECEDENTES.....</b>	<b>1</b>
<b>2. CONCEPTO DEL EJERCICIO .....</b>	<b>4</b>
2.1 FINALIDAD.....	4
2.2 OBJETIVOS.....	4
2.3 TIPO DE EJERCICIO .....	5
<b>3. ESQUEMA DEL EJERCICIO.....</b>	<b>7</b>
3.1 GENERALIDADES .....	7
3.2 PLAN RECTOR (GUIÓN DEL EJERCICIO).....	10
<b>3.2.1 Cronología del escenario .....</b>	<b>10</b>
<b>3.2.2 Tipos de mensaje de los Centros de Alerta contra Tsunamis .....</b>	<b>11</b>
<b>3.2.3 Tipos de producto.....</b>	<b>11</b>
3.3 MEDIDAS EN CASO DE EVENTO REAL.....	12
3.4 PROCEDIMIENTO EN CASO DE FALSA ALARMA .....	12
3.5 RECURSOS .....	12
3.6 DISPOSICIONES RELATIVAS A LOS MEDIOS DE COMUNICACIÓN .....	14
<b>4. EVALUACIÓN POSTERIOR AL EJERCICIO.....</b>	<b>14</b>
<b>5. REFERENCIAS .....</b>	<b>14</b>
<b>ANEXOS</b>	
I. PROCEDIMIENTOS NORMALIZADOS DE OPERACIONES PARA LOS PUNTOS FOCALES DE ALERTA CONTRA LOS TSUNAMIS Y OPERACIONES DE RESPUESTA DE EMERGENCIA A TSUNAMIS	
II. EJEMPLO DE EJERCICIO DE SIMULACIÓN	
III. DESCRIPCIÓN DEL ESCENARIO	
IV. MENSAJES FICTICIOS DE LOS CENTROS DE ALERTA CONTRA LOS TSUNAMIS (TWC DUMMY MESSAGES)	
V. MENSAJES DE LOS CENTROS DE ALERTA CONTRA LOS TSUNAMIS DE LOS EE.UU. PARA EL EJERCICIO (US TWC EXERCISE MESSAGES)	
VI. EJEMPLO DE COMUNICADO DE PRENSA PARA ÓRGANOS INFORMATIVOS LOCALES	
VII. LISTA DE ACRÓNIMOS (LIST OF ACRONYMS)	

## RESUMEN

El Grupo Intergubernamental de Coordinación COI/UNESCO del Sistema de Alerta contra Tsunamis y otras Amenazas Costeras del Caribe y Regiones Adyacentes (ICG/CARIBE-EWS) de la Comisión Oceanográfica Intergubernamental (COI) de la Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura (UNESCO), la Administración Nacional Oceánica y Atmosférica (NOAA) de los Estados Unidos de América, y el Programa nacional estadounidense de atenuación del riesgo de tsunami (NTHMP) llevarán a cabo un ejercicio de alerta de tsunami el 26 de marzo de 2014. Este ejercicio tiene por objeto contribuir a las actividades de preparación para casos de tsunami en el Caribe y regiones adyacentes, comprendidas las costas orientales de los Estados Unidos de América y el Canadá.

El escenario de tsunami CARIBE WAVE/LANTEX 14 simula un tsunami generado por un seísmo de magnitud 8,5 localizado a unos 270 km de la costa de Portugal. El mensaje ficticio inicial será emitido por el Centro de Alerta contra los Tsunamis en el Pacífico (PTWC) y el Centro Nacional estadounidense de Alerta contra los Tsunamis (NTWC) el 26 de marzo de 2014 a las 10.05 UTC y difundidos por todos sus canales habituales de radiodifusión. El mensaje ficticio se emitirá a fin de poner a prueba las comunicaciones con los puntos focales de alerta contra los tsunamis y los organismos encargados de la gestión de emergencias, y para dar comienzo al ejercicio. Será el único mensaje del ejercicio emitido por el PTWC y el NTWC, exceptuando los mensajes especiales por correo electrónico.

El manual comprende información relativa a los seísmo y tsunami hipotéticos, cronologías, los mensajes del ejercicio del PTWC y el NTWC, un modelo de comunicado de prensa e instrucciones para la evaluación ulterior del ejercicio. Habida cuenta de la índole transatlántica del evento, se estableció una coordinación con el Grupo Intergubernamental de Coordinación del Sistema de Alerta Temprana contra los Tsunamis y Atenuación de sus Efectos en el Atlántico Nororiental y el Mediterráneo y Mares Adyacentes (ICG-NEAMTWS) y el Instituto Português do Mar e da Atmosfera, que también emitirán mensajes. Los altos niveles de vulnerabilidad y riesgo para las vidas y los medios de existencia en las costas del Caribe y regiones adyacentes, así como en las costas orientales de los Estados Unidos de América y el Canadá, deben constituir un poderoso incentivo para que los países y las administraciones locales se preparen para un tsunami y participen en el ejercicio. Además, a las 14.00 UTC del 26 de marzo de 2014 se llevará a cabo un ejercicio de tsunami en el Golfo de México. Este ejercicio, organizado en el marco del NTHMP, está abierto a los países del CARIBE EWS (puede encontrarse más información al respecto en [www.caribewave.info](http://www.caribewave.info)).

### 1. ANTECEDENTES

Este ejercicio se lleva a cabo para contribuir a las actividades de preparación para casos de tsunami en toda la región del Caribe y el Atlántico noroccidental. Los eventos recientes, como los que se produjeron en el Océano Índico (2004), Samoa (2009), Haití y Chile (2010) y Japón (2011), atestiguan la importancia de una planificación adecuada de la respuesta a los tsunamis.

Los datos de tsunamis históricos del Centro nacional de datos geofísicos (NGDC) de la Administración Nacional Oceánica y Atmosférica estadounidense (NOAA) indican que en los últimos 500 años se han observado en el Caribe más de 75 tsunamis con una fiabilidad superior a 1 (Figura 1). Estos representan aproximadamente un 7 a 10 por ciento de los tsunamis oceánicos del mundo. Todas las fuentes de tsunamis, a saber, terremotos, deslizamientos de tierras y erupciones volcánicas, han afectado a la región. Desde 1842 no menos de 3.510 personas fallecieron a causa de tsunamis en el Caribe. En los últimos años se ha registrado una explosión demográfica y un fuerte incremento de la afluencia de turistas en las costas caribeñas, lo que acentúa la vulnerabilidad de la región a los tsunamis

(von Hillebrandt, 2013). Además de estos últimos, la región tiene también una larga historia de terremotos destructivos. Los datos históricos demuestran que fuertes seísmos afectaron muchas veces a la región del Caribe en los últimos 500 años. En la región existen múltiples segmentos de falla y rasgos submarinos que podrían ser fuente de tsunamis generados por terremotos y deslizamientos de tierras (Figura 2). El perímetro de la placa del Caribe está bordeado por nada menos que cuatro grandes placas (América del Norte, América del Sur, Nazca y Cocos). La subducción se produce a lo largo de los márgenes oriental y nororiental atlánticos de la placa del Caribe. El norte de América del Sur, el este de América Central, la cadena montañosa y el graben de las Islas Caimán y el límite de la placa septentrional se caracterizan por fallas normales, transformantes y de desgarre (Benz et al, 2011). Además de las fuentes locales y regionales, la región está amenazada por teletsunamis y tsunamis transatlánticos, como el de 1755. Dado que en esta región (Caribe, Américas Central y norte de América del Sur) viven casi 160 millones de personas y que se producen fuertes seísmos a intervalos de unos 50 años, el problema no es saber si ocurrirá otro tsunami de gran magnitud, sino si la región estará preparada para hacerle frente cuando se produzca. Los riesgos de que se produzcan seísmos de importancia en el Caribe y la posibilidad de que den lugar a tsunamis son reales y deben ser tomados seriamente en cuenta.

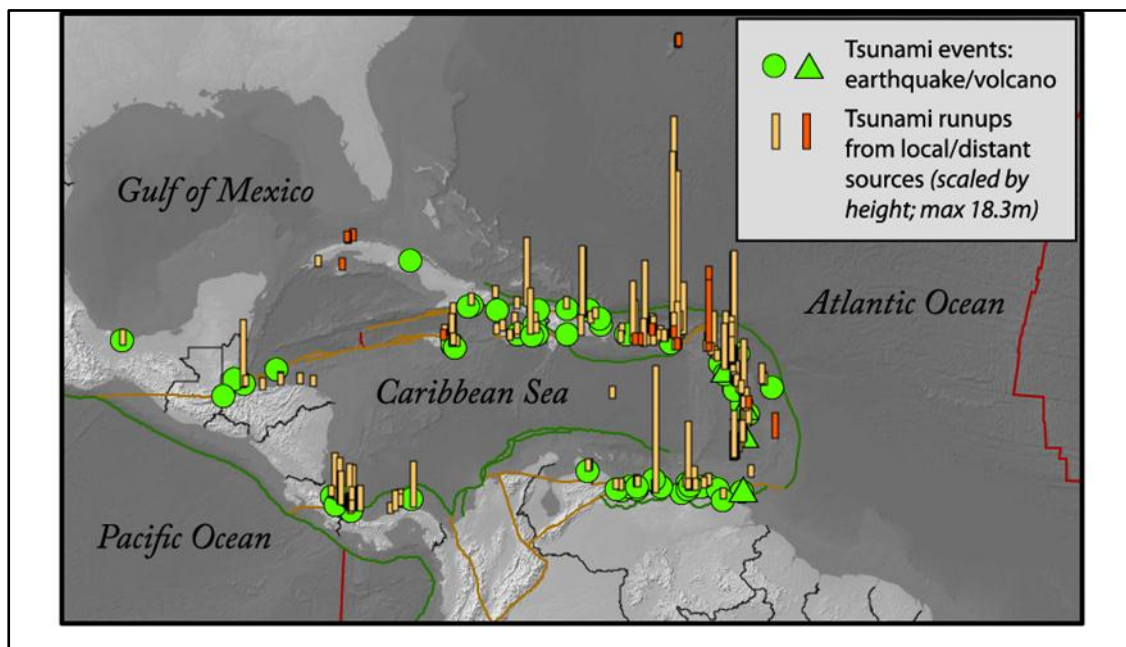


Figura 1. Mapa de las alturas máximas de inundaciones causadas por tsunamis en el Caribe, 1493-2010 (National Geophysical Data Center, <http://www.ngdc.noaa.gov/hazards/tsu.shtml>).  
Diseño: Jessee Varner.

Actualmente presta servicios de alerta contra tsunamis en el Caribe, a nivel internacional, el PTWC del Servicio Meteorológico Nacional (NWS) de los Estados Unidos de América situado en Ewa Beach (Hawaii), mientras que el NTWC de ese Servicio, situado en Palmer (Alaska), los presta a Puerto Rico y las Islas Vírgenes estadounidenses, las Islas Vírgenes británicas, las costas oriental y del Golfo estadounidenses, y las costas orientales del Canadá. Estos Centros transmiten productos sobre tsunamis a la región aproximadamente de 2 a 10 minutos después de ocurrido un seísmo. Los productos del NTWC incluyen alertas, advertencias, avisos y mensajes de información sobre tsunami, en tanto que los del PTWC comprenden boletines de información sobre tsunamis y avisos. Entre los principales receptores de los mensajes de un Centro de Alerta contra Tsunamis (TWC) figuran los puntos focales de alerta contra los tsunamis de cada país, las oficinas meteorológicas, los centros de alerta y de operaciones de emergencia de cada Estado o territorio, los guardias

costeros nacionales, y contactos militares. Estos organismos difunden los mensajes a la población que podría ser afectada por un tsunami. La Red Sísmica de Puerto Rico (RSPR) de la Universidad de Puerto Rico en Mayagüez, el Instituto Nicaragüense de Estudios Territoriales (INETER) en Nicaragua, la Fundación Venezolana de Investigaciones Sismológicas (FUNVISIS) en Venezuela, y otras entidades nacionales y regionales también suministran información sobre los terremotos y tsunamis a las regiones de su competencia.

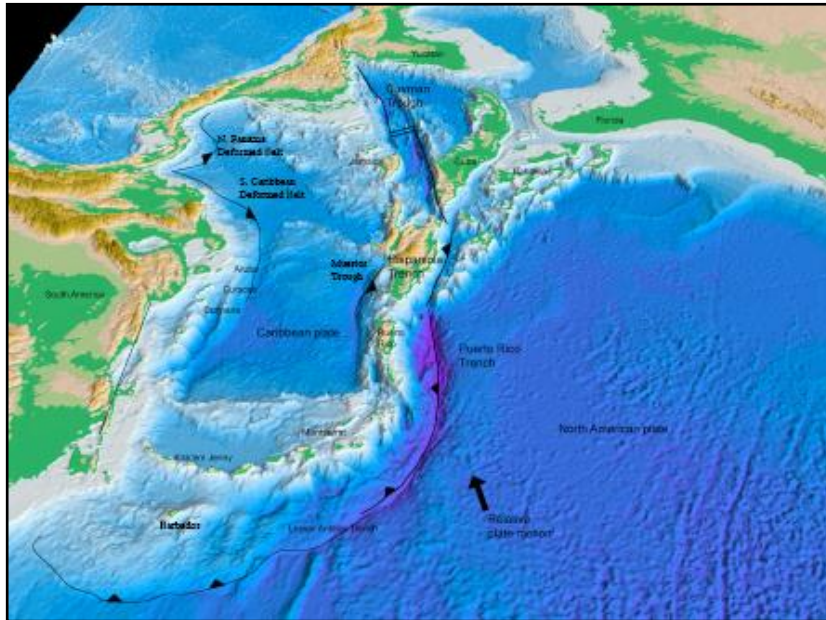


Figura 2. Características tectónicas en el Caribe (ten Brink *et al.*, 2008).

El Grupo Intergubernamental de Coordinación del Sistema de Alerta contra los Tsunamis y otras Amenazas Costeras en el Caribe y Regiones Adyacentes (ICG/CARIBE-EWS) de la Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura (UNESCO), la Agencia de Manejo de Emergencias y Desastres del Caribe (CDEMA), el Centro de Coordinación para la Prevención de los Desastres Naturales en América Central (CEPRENAC), la NOAA, y el Programa nacional estadounidense de atenuación del riesgo de tsunami (NTHMP) proporcionan el marco de referencia para este Ejercicio, a fin de que los encargados de responder a emergencias de todo el Caribe pongan a prueba y actualicen los planes de respuesta a tsunamis. Los elevados grados de vulnerabilidad y amenaza que afectan a muchas naciones caribeñas deberían constituir un fuerte incentivo para que las autoridades locales se preparen para casos de tsunami.

Este ejercicio emitirá mensajes sobre tsunami ficticios de los centros de alerta contra los tsunamis basados en un hipotético terremoto de magnitud 8,5 ocurrido a unos 270 km de las costas de Portugal, en las coordenadas 36°04 N y 10°75 O (Figura 3). Este evento es similar al que se produjo al oeste de Portugal el 1 de noviembre de 1755, conocido generalmente como el terremoto y tsunami de Portugal. El seísmo de 1755, que tuvo una Magnitud de momento (Mw) estimada entre 7,5 and 8,0, generó un tsunami local y teletsunami. El impacto principal del seísmo de 1755 se produjo en Portugal, España y el noroeste de África, causando la muerte de unas 50.000 personas a causa del tsunami, las sacudidas y los incendios. El tsunami también alcanzó importantes alturas en las islas Azores y Madeira. Se produjo un tsunami transoceánico y se documentó su altura en el Caribe, Brasil y Newfoundland (Canadá). Aunque los modelos indican que también debió de llegar a la costa oriental de los Estados Unidos de América, no hay registros para esa región (Barkan *et al.*, 2009).



Ejercicios como éste contribuirán a lograr que las costas del Caribe y el Atlántico estén preparadas para responder a un tsunami peligroso. Ejercicios similares realizados recientemente en el Caribe y regiones adyacentes (CARIBE WAVE y LANTEX) así como en las cuencas del Pacífico, el Atlántico nororiental y el Mediterráneo han demostrado su eficacia para fortalecer los niveles de preparación de los organismos encargados de la gestión de emergencias.



Figura 3. Localización del evento Caribe Wave/Lantex14 en 10°75 N 36°04 O.

## 2. CONCEPTO DEL EJERCICIO

### 2.1 FINALIDAD

La finalidad del Ejercicio es mejorar la eficacia del sistema de alerta contra los tsunamis en las costas del Caribe y del Atlántico noroccidental. Brinda a los organismos encargados de la gestión de emergencias la oportunidad de poner a prueba sus medios de comunicación operativos, examinar sus procedimientos de respuesta a los tsunamis y promover la preparación para casos de tsunami. La experimentación periódica de los planes de respuesta es esencial para mantener la preparación para casos de emergencia. Esto es particularmente válido para los tsunamis, que son fenómenos poco frecuentes pero con importantes repercusiones. Se alienta a participar en el Ejercicio a todas las entidades encargadas de la gestión de situaciones de emergencia.

### 2.2 OBJETIVOS

Cada entidad puede elaborar sus propios objetivos para el Ejercicio, en función de su nivel de participación en el escenario. Los objetivos primordiales del Ejercicio son los siguientes:



1. Ejercitar y evaluar el funcionamiento del sistema de alerta contra los tsunamis.
  - a. Validar la emisión de productos relativos a tsunamis del PTWC y el NTWC.
  - b. Validar la recepción y difusión de productos relativos a tsunamis por los puntos focales de alerta contra los tsunamis (TWFP) del CARIBE-EWS.
2. Proseguir el proceso de contacto con los productos mejorados del CARIBE-EWS propuestos por el PTWC.
  - a. Examinar y evaluar los productos mejorados que estarán disponibles paralelamente a los productos del PTWC existentes.
  - b. Proporcionar información de retorno sobre la estructuración, el formato y los contenidos de los productos experimentales.
3. Validar la preparación para responder a un tsunami distante.
  - a. Validar la preparación operacional del TWFP (o función similar) y/o del organismo encargado de la gestión de emergencias.
  - b. Mejorar la preparación operacional. Antes del ejercicio, cerciorarse de que se han elaborado las herramientas y los planes de respuesta adecuados, comprendidos los materiales de educación de la población.
  - c. Asegurarse de que la difusión de las alertas e información o advertencias por los puntos focales de alerta contra los tsunamis a los organismos nacionales competentes y al público es precisa y oportuna.
  - d. Validar el proceso de adopción de decisiones organizativas (planes de respuesta al tsunami) sobre alertas públicas y evacuaciones.
  - e. Asegurarse de que los métodos usados para notificar e instruir a la población son precisos y oportunos.

### 2.3 TIPO DE EJERCICIO

El Ejercicio deberá realizarse de modo que las comunicaciones y la adopción de decisiones en distintos niveles organizativos se pongan a prueba y se lleven a cabo sin perturbar o alarmar al público en general. Algunas localidades, empero, pueden si lo desean extender el Ejercicio hasta el nivel de experimentación de los sistemas locales de notificación, como el Sistema de Alerta de Emergencias, sirenas o altavoces.

Los ejercicios estimulan la elaboración, enseñanza, experimentación y evaluación de planes para casos de desastre y procedimientos normalizados de operaciones (SOP). La mayor parte de los países de la región han participado en talleres sobre SOP en 2013 y deberían utilizar los materiales y la experiencia adquirida para orientar la preparación y realización del ejercicio. En el Anexo 1 se presentan los SOP. Los participantes pueden utilizar sus propios simulacros pasados relacionados con peligros múltiples (por ejemplo, inundación, huracán, tsunami, terremoto, etc.) como marco para realizar el ejercicio CARIBE WAVE/LANTEX14.

Los ejercicios pueden realizarse con distintas escalas de magnitud y grados de complejidad. A continuación se presentan ejemplos de tipos de ejercicios realizados por organismos encargados de la gestión de situaciones de emergencia:

1. Ejercicio de orientación (Seminario): un ejercicio de orientación sienta las bases de un programa de ejercicio integral. Es un evento planificado, preparado para reunir a personas y funcionarios que cumplen una función o tienen interés en la planificación de respuestas a peligros múltiples, la solución de problemas, la elaboración de

procedimientos normalizados de operaciones y la integración y coordinación de recursos. Un ejercicio de orientación tendrá una meta específica y objetivos escritos, y dará lugar a un Plan de Acción acordado.

2. Simulacro (“drill”): el simulacro es una actividad programada en la que se ponen a prueba, se incrementan y/o mantienen competencias relativas a un procedimiento único o limitado de respuesta a una situación de emergencia. Los simulacros atañen generalmente a la respuesta operacional de una sola dependencia o entidad. Pueden incluir notificaciones internas y/o actividades sobre el terreno.
3. Ejercicio de simulación (“tabletop”): la simulación es una actividad planificada en que se presentan situaciones de emergencia simuladas a las autoridades locales, funcionarios clave y entidades responsables de la gestión de desastres. Suele ser informal, en un ambiente de sala de reuniones, y tiene por objeto suscitar un debate constructivo entre los participantes. Estos examinarán los problemas e intentarán resolverlos sobre la base de planes y procedimientos, si existen. Se alienta a los participantes a analizar a fondo las decisiones haciendo hincapié en la solución de problemas paso a paso, en lugar de la adopción de decisiones rápida y en tiempo real. Un ejercicio de simulación debe tener metas específicas, objetivos y una descripción del escenario (véase el Anexo II en el que figura un ejemplo de esquema de ejercicio de simulación).
4. Ejercicio funcional: un ejercicio funcional es una actividad planificada destinada a poner a prueba y evaluar las capacidades organizativas. También se utiliza para evaluar la capacidad de un sistema comunitario de gestión de situaciones de emergencia ensayando el Plan de Operaciones de Emergencia. Se basa en la simulación de una situación de emergencia realista que incluye una descripción de la situación (narración) con intercambios entre los jugadores y los simuladores. El ejercicio funcional brinda a los jugadores (responsables de la adopción de decisiones) una experiencia totalmente simulada de la situación frente a un grave desastre. Debe realizarse en el lugar de coordinación apropiado (es decir, un centro de operaciones de emergencia, un centro de mando para situaciones de emergencia, un puesto de comando, un centro de control principal, etc.) y activar a todos los miembros adecuados designados en el Plan. Deberían participar organismos internos y externos (gobierno, sector privado y entidades voluntarias). Requiere jugadores, supervisores, simuladores y evaluadores. El intercambio de mensajes se simulará y el equipo de control lo insertará para generar respuestas/medidas por parte de los jugadores, con las exigencias del tiempo real. Puede incluir o no evacuaciones de población. Un ejercicio funcional debe tener metas específicas, objetivos y una descripción del escenario.
5. Ejercicio integral: un ejercicio integral es la culminación de un programa gradual de ejercicios que se ha desarrollado junto con la capacidad de la comunidad de efectuar ejercicios. Un ejercicio integral es una actividad planificada en un entorno “difícil” que abarca la mayoría de las funciones de la gestión de emergencias. Este tipo de ejercicio requiere la movilización y el despliegue reales del personal y los recursos apropiados que se necesitan para demostrar las capacidades operacionales. Es necesario activar a los Centros de Operaciones de Emergencia y otros centros de mando. Un ejercicio integral es el tipo de ejercicio de mayor envergadura, más costoso y más complejo. Puede incluir o no evacuaciones de población.

ESTILO	PERÍODO DE PLANIFICACIÓN	DURACIÓN	COMENTARIOS
Ejercicio de orientación	2 semanas	Horas	Grupos individuales o mixtos
Simulacro	2 meses	1 día	Generalmente grupos técnicos individuales
Ejercicio de simulación	1 mes	1-3 días	Uno o varios organismos
Ejercicio funcional	> 3 meses	1-5 días	Participación de varios organismos
Ejercicio integral	>6 meses	1 día/semana	Participación de varios organismos

Cuadro 1. Ejemplo de calendario para los diferentes tipos de ejercicio

### 3. ESQUEMA DEL EJERCICIO

#### 3.1 GENERALIDADES

Para este ejercicio los mensajes sobre tsunami son emitidos por el NTWC de los Estados Unidos y el PTWC sobre la base de un seísmo hipotético con los siguientes parámetros de hipocentro:

- Hora de inicio      10.00.00 UTC – 26 de marzo de 2014
- Latitud              36°04 N
- Longitud            10°75 O
- Magnitud            8,5 – Mw
- Profundidad        5 km

Obsérvese que el boletín N° 1 se emite con una magnitud de 8,0. Para los seísmos muy importantes, la determinación inicial de la magnitud en los TWC es generalmente baja. El impacto esperado de este evento se determina con arreglo a los modelos de previsión de tsunami. Los modelos indicaron un tsunami de importancia en las Islas Vírgenes, Puerto Rico y Bermudas, pero con menos repercusión en otros lugares. Sobre la base de los modelos, las zonas de alerta del ejercicio se limitan al Atlántico y a la región del Caribe, y no incluye otras zonas de competencia de los TWC en el Golfo de México. En el Apéndice C figuran resultados de modelos.

En el transcurso del ejercicio los TWC emiten varios niveles de alerta. Más abajo se presentan definiciones de los productos que serán emitidos por los TWC durante este ejercicio (nótese que los productos del PTWC difieren de los del NTWC de los Estados Unidos debido a los requisitos establecidos por el ICG/CARIBE-EWS).

#### **Centro nacional de alerta contra los tsunamis de los Estados Unidos de América**

Alerta de tsunami. Se emite una alerta cuando es inminente o se espera (o está ocurriendo) un tsunami capaz de generar una importante y extensa inundación. La alerta advierte al público de la posibilidad de una peligrosa inundación de las costas acompañada por poderosas corrientes, que puede durar varias horas después de la llegada de la primera

ola. Las alertas anuncian a los responsables de la gestión de emergencias que deben tomar medidas en toda la zona amenazada por el tsunami. Las medidas apropiadas que deben adoptar los responsables locales pueden incluir la evacuación de zonas costeras bajas, y el desplazamiento de buques a aguas profundas cuando tienen tiempo de hacerlo sin correr peligro. Las alertas pueden ser actualizadas, ajustadas geográficamente, disminuidas o canceladas. Para que se pueda dar la alarma lo más pronto posible, las primeras alertas se basan generalmente sólo en información sísmica.

Advertencia de tsunami. Una advertencia de tsunami se emite debido a la amenaza de un tsunami potencial que puede producir fuertes corrientes u olas peligrosas para quienes están en el agua o cerca de ella. Las zonas costeras históricamente expuestas a daños causados por fuertes corrientes inducidas por tsunamis son las que corren mayor peligro. La amenaza puede perdurar varias horas después de la llegada de la primera ola, pero en el caso de una advertencia no se espera una importante y extensa inundación en la zona afectada. Las medidas adecuadas que han de tomar los funcionarios locales pueden incluir el cierre de las playas, la evacuación de puertos y marinas, y el desplazamiento de buques a aguas profundas cuando tienen tiempo de hacerlo sin correr peligro. Una advertencia suele actualizarse para mantenerla, ampliar o reducir las zonas afectadas, convertirla en alerta, o cancelarla.

Aviso de tsunami. Los avisos se emiten para alertar a los encargados de la gestión de emergencias y al público sobre un evento que podría afectar más tarde a la zona abarcada. El aviso puede ser objeto de una ampliación de cobertura, convertido en alerta o advertencia, o cancelado, sobre la base de información y análisis actualizados. Por lo tanto, los encargados de la gestión de emergencias y el público deben prepararse para tomar medidas. Los avisos son normalmente emitidos sobre la base de información sísmica, sin confirmación de que esté en curso un tsunami destructivo.

Mensaje de información sobre tsunami (TIS). Se emite un texto para comunicar a los encargados de la gestión de emergencias y al público que se ha producido un seísmo, o que se ha emitido una alerta, una advertencia o un aviso relativo a otra parte del océano. En la mayoría de los casos, se emite un Mensaje de información sobre tsunami para indicar que no hay amenaza de tsunami destructivo a nivel de la cuenca, y para impedir evacuaciones innecesarias ya que el terremoto puede haberse percibido en las zonas costeras. En ciertas situaciones, un Mensaje de información sobre tsunami puede anunciar la posibilidad de un tsunami destructivo local. Puede emitirse un Mensaje suplementario con información adicional, aunque generalmente esos mensajes no se actualizan. Sin embargo, de ser necesario, se puede emitir un aviso, una advertencia o una alerta una vez que se dispone de un análisis o de información actualizada.

### **Centro de Alerta contra los Tsunamis en el Pacífico (PTWC)**

Aviso de tsunami. El PTWC emite un aviso de tsunami después de un seísmo importante para informar de que existe la posibilidad de que un tsunami destructivo afecte la región abarcada por el aviso, o para informar acerca de un tsunami confirmado que puede causar daños en la región abarcada por el aviso. Es el más alto nivel de alerta emitido por el PTWC para la región del Caribe. Es emitido por el PTWC únicamente para advertir a las autoridades locales que tienen responsabilidad y atribuciones para emitir alertas de tsunami para las zonas de su competencia u otro tipo de alertas, y dar instrucciones a la población respecto de las medidas de respuesta apropiadas. Esas medidas pueden comprender la evacuación de zonas bajas y el desplazamiento de buques y embarcaciones hacia aguas profundas. Los avisos de tsunami se emiten aproximadamente cada hora con información actualizada, comprendidas mediciones de las olas del tsunami y, si procede, la ampliación o reducción de la zona cubierta por el aviso, hasta su cancelación.

Boletín de información sobre tsunami (TIB). El Boletín de información sobre tsunami, emitido por el PTWC en un Mensaje de información sobre tsunami (TIS), tiene por objeto informar de que se ha producido un importante seísmo con escaso o nulo potencial de generación de tsunami, sea porque el seísmo no tiene la magnitud suficiente, porque está localizado demasiado tierra adentro como para causar perturbaciones marinas, porque es demasiado profundo como para desplazar de forma importante el suelo marino, o por una combinación de esos factores. En unos pocos casos un seísmo de esta categoría puede ir acompañado de un tsunami localmente destructivo debido a un fenómeno tsunamigénico colateral como un deslizamiento de tierras en el mar o un derrumbe submarino. Este producto se emite únicamente para advertir a las autoridades locales que tienen responsabilidad y atribuciones para alertar y dar instrucciones a la población respecto de las medidas de respuesta apropiadas. Puede emitirse información suplementaria si se detecta una señal de tsunami en los medidores cercanos o si hay cambios significativos en los parámetros sísmicos preliminares.

Los Centros de Alerta contra Tsunamis no difundirán mensajes en directo en canales de radiodifusión fuera de un primer mensaje ficticio para iniciar el ejercicio a las 10.05 UTC el 26 de marzo de 2014. Sin embargo, se enviarán mensajes de los TWC por correo electrónico a determinados destinatarios que han pedido una difusión en directo a lo largo del evento (<http://www.prsn.uprm.edu/caribewave-lantex2014/registro>). El contenido del mensaje ficticio figura en el Anexo IV. El mensaje ficticio indicará que los participantes en el ejercicio deben remitirse al primer mensaje que figura en el presente manual. A partir de ese momento, deben seguir el programa presentado en el Cuadro 1 para buscar los nuevos mensajes si no los reciben por correo electrónico o por fax. El Cuadro 1 es el cronograma de los mensajes que enviarían los Centros de Alerta contra Tsunamis si se produjera un evento real, y los responsables de la gestión de emergencias pueden utilizarlo para programar la cronología del ejercicio. Los mensajes (que figuran en el Anexo V) abarcan un periodo de 12 horas, aunque en un evento real durarían probablemente más. Los códigos identificadores (ID) de la Organización Meteorológica Mundial (OMM) y del Advanced Weather Interactive Processing System (AWIPS) [Sistema interactivo avanzado de procesamiento de la información meteorológica] utilizados en el mensaje ficticio se indican en el Cuadro 2.

El NTWC de los Estados Unidos emite dos productos oficiales y un producto experimental cada vez que se emite un mensaje. Los que figuran en el Anexo V son conocidos como el mensaje público, que no contiene códigos o texto destinado a los sistemas automatizados. Para el presente ejercicio se proporcionan versiones (experimentales) de cada mensaje en español e inglés. Los TWC también emiten productos adicionales gráficos y basados en Internet a sus sitios web. El PTWC emite un producto oficial para este ejercicio.

Además, los Estados Miembros del CARIBE-EWS tienen la oportunidad, si así lo desean, de observar y manipular los productos mejorados del CARIBE EWS propuestos por el PTWC. Estarán disponibles al menos un mes antes del ejercicio, junto con una descripción más detallada de su contenido y la manera de utilizarlos, en el sitio <http://www.caribewave.info>

Los participantes pueden decidir aplicar sus propios cronogramas para alcanzar sus propios objetivos. Por ejemplo, un determinado Supervisor del Ejercicio de un organismo de gestión de emergencias puede decidir integrar los boletines de los Centros de Alerta contra Tsunamis en el Ejercicio en el momento que prefiera, o bien ponerlos en sobres en los que escribirá la hora en que debe abrirse cada uno, con un juego de sobres para cada organismo participante clave. Los mensajes, presentados en el Anexo V, facilitarán este método.

Los organismos de gestión de emergencias podrán modificar las horas de llegada estimadas y/o las amplitudes de la ola para adaptarlas a su ejercicio: por ejemplo, decidir que el

tsunami llegará antes y que su amplitud será mayor. También se alientan otras contribuciones al ejercicio, como informes sobre los daños causados por el tsunami.

### 3.2 PLAN RECTOR (GUIÓN DEL EJERCICIO)

#### 3.2.1 Cronología del escenario

Tsunami generado por un terremoto de magnitud 8,5 con epicentro en 36°04 N, 10.75° O, que se produce el 26 de marzo de 2014 a las 10:00 UTC.

Fecha (UTC)	Hora (UTC)	NTWC estadounidense Mensaje				PTWC Mensaje				
		#	Tipo	Ficticio	Correo electrónico	#	Tipo	Ficticio	Correo electrónico	
03/26/2014	10.00		----- Se produce el seísmo -----							
03/26/2014	10.05		Ficticio	Sí	Sí		Ficticio	Sí	Sí	
03/26/2014	10.05	01	TIS #1	No	Sí	01	Aviso	No	Sí	
03/26/2014	11.03	02	Aviso	No	Sí	02	Aviso	No	Sí	
03/26/2014	12.04	03	Aviso	No	Sí	03	Aviso	No	Sí	
03/26/2014	13.00	04	Aviso	No	Sí	04	Aviso	No	Sí	
03/26/2014	14.00	05	Adv/Alerta	No	Sí	05	Aviso	No	Sí	
03/26/2014	15.00	06	Adv/Alerta	No	Sí	06	Aviso	No	Sí	
03/26/2014	16.02	07	Adv/Alerta	No	Sí	07	Aviso	No	Sí	
03/26/2014	17.03	08	Adv/Alerta	No	Sí	08	Aviso	No	Sí	
03/26/2014	18.05	09	Adv/Alerta	No	Sí	09	Aviso	No	Sí	
03/26/2014	19.05	10	Adv/Alerta	No	Sí	10	Aviso	No	Sí	
03/26/2014	20.02	11	Adv	No	Sí	11	Aviso	No	Sí	
03/27/2014	21.01	12	Adv	No	Sí	12	Aviso	No	Sí	
03/27/2014	22.01	13	Adv	No	Sí	13	Aviso	No	Sí	
03/27/2014	22.55	14	Can	No	Sí					
03/26/2014	23.00	14				14	Aviso	No	Sí	
03/26/2014	23.55	15				15	Can	No	Sí	

Cuadro 1. Cronología del escenario

El mensaje ficticio inicial se difundirá por todos los canales de difusión habituales de los Centros de Alerta contra Tsunamis, tal como se indica en el Cuadro 2. Se emite para poner

a prueba las comunicaciones con los organismos de gestión de emergencias y los Puntos focales de alerta contra los tsunamis, e iniciar el Ejercicio. Todos los mensajes se enviarán a los destinatarios que figuren en una lista especial de correo electrónico para transmitir los mensajes en tiempo real a las entidades que soliciten este servicio. Para solicitar este servicio sírvase inscribirse en línea en el sitio <http://www.prsn.uprm.edu/caribewave-lantex2014/registro>. Se ruega tomar nota de que el mensaje ficticio del NTWC de los Estados Unidos se emite con el ID de la OMM: WEXX30 PAAQ y el ID del AWIPS: TSUATE, y de que los mensajes ficticios del PTWC se emiten con el ID de la OMM: WECA41 PHEB y el ID del AWIPS: TSUCAX.

Un mensaje de alerta, aviso o advertencia emitido para un evento real como el descrito puede durar muchas horas más que este ejercicio. El ejercicio se ha diseñado de modo que tenga lugar en un lapso comprimido.

### 3.2.2 Tipos de mensaje de los Centros de Alerta contra Tsunamis

TIS Mensaje de información sobre tsunami

Alerta Alerta de tsunami

Aviso Aviso de tsunami

Adv Advertencia de tsunami

Can Cancelación

#### Ficticio:

Sí Mensaje ficticio emitido

No Mensaje ficticio no emitido

#### Correo electrónico:

Sí Mensaje difundido a la lista especial de correo electrónico

No Mensaje no difundido a la lista especial de correo electrónico

### 3.2.3 Tipos de producto

Tipos de productos emitidos para el mensaje ficticio, con sus métodos de transmisión:

Centro	ID OMM	ID AWIPS	NWWS	GTS	EMWIN	AISR	fax	correo electrónico
NTWC	WEXX30 PAAQ	TSUATE	Sí	Sí	Sí	Sí	Sí	Sí
PTWC	WECA41 PHEB	TSUCAX	Sí	Sí	Sí	Sí	Sí	Sí

Cuadro 2. Tipos de producto

NWWS	NOAA Weather Wire Service [red de telecomunicaciones de la NOAA]
GTS	Sistema Mundial de Telecomunicación
EMWIN	Red de Información Meteorológica para Administradores de Situaciones de Emergencia
AISR	Aeronautical Information System Replacement

El Grupo Intergubernamental de Coordinación del Sistema de Alerta Temprana contra los Tsunamis y Atenuación de sus Efectos en el Atlántico Nororiental y el Mediterráneo y Mares Adyacentes (ICG-NEAMTWS), ha considerado su participación en el ejercicio. El Instituto Português do Mar e da Atmosfera (IPMA), candidato propuesto a proveedor de avisos de tsunami para el Atlántico Nororiental, contribuirá al ejercicio y proporcionará mensajes, con arreglo a los procedimientos adoptados en el NEAMTWS, que se facilitarán en un servidor del IPMA. Es posible que el Centro Nacional de Alerta contra los Tsunamis de Francia (CENALT), candidato a proveedor de avisos de tsunami, emita productos experimentales para este evento. Puede encontrarse información actualizada sobre la participación de esas entidades en el sitio [www.caribewave.info](http://www.caribewave.info).

El 26 de marzo de 2014 a las 14.00 UTC se llevará a cabo por separado, en el Golfo de México, otro ejercicio de tsunami (LANTEX14). Este ejercicio, organizado en el marco del Programa nacional estadounidense de atenuación del riesgo de tsunami (NTHMP), está abierto a los países del CARIBE EWS (hay más información disponible en el sitio [www.caribewave.info](http://www.caribewave.info)).

### 3.3 MEDIDAS EN CASO DE EVENTO REAL

En caso de que se produzca un evento real durante el Ejercicio, los Centros de Alerta contra Tsunamis emitirán sus mensajes habituales al respecto. Se dará absoluta prioridad a esos mensajes, y los Centros de Alerta decidirán si envían el mensaje ficticio y mensajes por correo electrónico a destinatarios escogidos. Pequeños seísmos que sólo den lugar a un Mensaje de información sobre tsunami no interrumpirán el ejercicio. Toda la documentación y la correspondencia relacionadas con este ejercicio llevarán claramente la mención “CARIBE WAVE/LANTEX14” y “Ejercicio.”

### 3.4 PROCEDIMIENTO EN CASO DE FALSA ALARMA

Cada vez que se realiza un ejercicio de respuesta a un desastre, existe la posibilidad de que el público o los medios de comunicación interpreten que el evento es real. Todas las entidades participantes deberían establecer procedimientos para atender las preocupaciones de la población o de los órganos informativos relacionadas con este Ejercicio en caso de interpretación errónea.

### 3.5 RECURSOS

Si bien los organismos de gestión de emergencias recibirán por anticipado el anuncio del ejercicio y pueden decidir dedicarle especialmente un turno para permitir que las actividades básicas esenciales sigan su curso sin interrupción, se pide que se asignen recursos de nivel realista para poner de manifiesto algunos de los problemas que podrían surgir ante un evento real.

Las preguntas sobre este ejercicio pueden dirigirse a:



PERSONA	TELÉFONO #	CORREO ELECTRÓNICO
Christa von Hillebrandt-Andrade, Presidenta de CARIBE EWS y CARIBE WAVE 14; Administradora CTWP del NWS	787-249-8307	<a href="mailto:christa.vonh@noaa.gov">christa.vonh@noaa.gov</a>
Víctor Hugo Cano, Vicepresidente		<a href="mailto:cano.victor.hugo@gmail.com">cano.victor.hugo@gmail.com</a>
Dawn French, Vicepresidente	758-452-3802	<a href="mailto:director@nemo.gov.lc">director@nemo.gov.lc</a>
Philippe Sarron		<a href="mailto:philippe.sarron@interieur.gouv.fr">philippe.sarron@interieur.gouv.fr</a>
Jean Marie Saurel, Presidente del Grupo de Trabajo 1	596-596-784146	<a href="mailto:saurel@ipgp.fr">saurel@ipgp.fr</a>
Narcisse Zahibo, Presidente del Grupo de Trabajo 2	590-590-615590	<a href="mailto:narcisse.zahibo@univ-ag.fr">narcisse.zahibo@univ-ag.fr</a>
Alison Brome	246-438-7575	<a href="mailto:a.brome@unesco.org">a.brome@unesco.org</a>
Kerry Hinds, Presidente del Grupo de Trabajo 4	246-438-7575	<a href="mailto:cero@caribsurf.com">cero@caribsurf.com</a>
Bernardo Aliaga, Secretario técnico	33-1-45683980	<a href="mailto:b.aliaga@unesco.org">b.aliaga@unesco.org</a>
Ronald Jackson, Director CDEMA	246-425-0386	<a href="mailto:Ronald.Jackson@cdema.org">Ronald.Jackson@cdema.org</a>
Noel Barrillas, CEPREDENAC	502-2362-1981-83	<a href="mailto:nbarillas@sica.int">nbarillas@sica.int</a>
Melinda Bailey, Serv. Meteorológico Nacional, Región Sur	817-978-1100x107	<a href="mailto:melinda.bailey@noaa.gov">melinda.bailey@noaa.gov</a>
Wilfredo Ramos, Rep. PREMA	787-724-0124 ext. 20036	<a href="mailto:wramos@prema.pr.govaemead.gobierno.pr">wramos@prema.pr.govaemead.gobierno.pr</a>
Paul Whitmore, Director NTWC	907-745-4212	<a href="mailto:paul.whitmore@noaa.gov">paul.whitmore@noaa.gov</a>
James Waddell, Rep. NTWC	907-745-4212	<a href="mailto:james.waddell@noaa.gov">james.waddell@noaa.gov</a>
Charles McCreery, Director PTWC	808-689-8207	<a href="mailto:charles.mccreery@noaa.gov">charles.mccreery@noaa.gov</a>
Gerard Fryer, Rep.PTWC	808-689-8207	<a href="mailto:gerard.fryer@noaa.gov">gerard.fryer@noaa.gov</a>
Víctor Huérfano, Director PRSN	787-833-8433	<a href="mailto:victor@prsn.uprm.edu">victor@prsn.uprm.edu</a>
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Cuadro 3. Lista de contactos

### 3.6 DISPOSICIONES RELATIVAS A LOS MEDIOS DE COMUNICACIÓN

Una de las ventajas de la realización de ejercicios es que crear conciencia respecto del tema del ejercicio. Puede que numerosos residentes de las costas del Caribe no sepan que existe un sistema de alerta contra los tsunamis en su región, y menos aún cuál es la respuesta adecuada. Las comunidades podrían invitar a sus órganos informativos locales a participar en el ejercicio a fin de sensibilizar a la población local sobre el peligro de los tsunamis. En todos los niveles del ejercicio, y especialmente en aquellos países que llevan a cabo ejercicios en escala integral y funcionales, los medios de comunicación pueden también prestar apoyo contribuyendo a sensibilizar a la población antes del ejercicio. Se deben facilitar a los medios de comunicación los folletos informativos disponibles preparados por los organismos locales, regionales e internacionales. También es una oportunidad adecuada para distribuir, como orientación suplementaria, la Guía para los medios sobre tsunamis de la Red Sísmica de Puerto Rico (<http://www.prsn.uprm.edu/mediakit/>), así como el material de información para los medios de comunicación sobre los sistemas de alerta contra los tsunamis y otros peligros costeros, del Centro de Investigaciones Sismológicas de la Universidad de las Indias Occidentales (<http://www.uwiseismic.com>). En el ANEXO VI figura un ejemplo de comunicado de prensa que puede adaptarse en función de las necesidades.

## 4. EVALUACIÓN POSTERIOR AL EJERCICIO

Se invita a todos los organismos participantes a proporcionar un breve comentario después de realizado el ejercicio. Este comentario ayudará al ICG/CARIBE-EWS, el NTHMP y la NOAA a evaluar el Caribe Wave 14 y preparar ejercicios ulteriores, así como a los organismos interesados a documentar las enseñanzas extraídas.

La evaluación debe entregarse a más tardar el **11 de abril de 2014** en Survey Monkey, mediante el enlace siguiente: <https://www.surveymonkey.com/s/VHM92KG>.

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## ANEXO I

### **PROCEDIMIENTOS NORMALIZADOS DE OPERACIONES PARA LOS PUNTOS FOCALES DE ALERTA CONTRA LOS TSUNAMIS Y OPERACIONES DE RESPUESTA DE EMERGENCIA A TSUNAMIS**

#### CICLO COMPLETO DE ALERTA DE TSUNAMI – PRESENTACIÓN GENERAL

Septiembre de 2008 (actualización en 2012)

Unidad sobre Tsunamis de la COI de la UNESCO (París) con el Centro Internacional de Información sobre los Tsunamis (ITIC) (Hawái)

En esta presentación general se resume una alerta integral de tsunami. En el transcurso del evento, abarca las actividades relativas a la vigilancia, la detección, la evaluación y alerta de la amenaza, la difusión de la alerta, la respuesta de emergencia, y la acción pública. Un sistema eficaz de alerta de tsunami se logra cuando todas las personas que forman parte de comunidades costeras vulnerables están preparadas para reaccionar en forma adecuada y oportuna al reconocer que puede estar aproximándose un tsunami potencialmente destructivo. Responder a este desafío supone una vigilancia las 24 horas del día con flujos de datos en tiempo real y un mecanismo de alerta rápido, así como comunidades preparadas, un sólido sistema de gestión de emergencias y una cooperación y coordinación estrechas entre todas las partes interesadas. Es totalmente inútil avisar sin preparar y, más aún, alertar sin transmitir un mensaje de seguridad pública que sea comprensible para cada persona en cuanto a lo que se debe hacer y adonde se debe ir. Si bien los avisos son el elemento técnico que pone en marcha la alerta, cualquier sistema será juzgado en última instancia por su capacidad para salvar vidas, y por el hecho de que la población se aleje del lugar peligroso antes de la llegada de un gran tsunami. Con estos fines, la educación y la sensibilización son indudablemente actividades esenciales para el éxito de las alertas tempranas.

En una alerta integral de tsunami intervienen varias partes interesadas que deben ser capaces de trabajar de modo coordinado y con un buen conocimiento de las funciones, responsabilidades, facultades e iniciativas que corresponden a cada una de ellas al producirse un tsunami. La planificación y la preparación, y los ejercicios prácticos previos al suceso real, ayudan a familiarizar a los organismos y su personal con las medidas y las decisiones que es necesario adoptar sin vacilación durante una emergencia real. La resiliencia a un tsunami se basa en la preparación de la comunidad en cuanto al conocimiento de los tsunamis y la planificación, la alerta y la sensibilización al respecto. Todas las partes que intervienen en la respuesta deben tener conocimientos científicos básicos de los seísmos y los tsunamis, y estar familiarizadas con los conceptos de alerta, la detección, la evaluación de la amenaza y los métodos de dar la alerta, así como con la respuesta de emergencia y las operaciones de evacuación. Los componentes, requisitos y operaciones clave para lograr una alerta y evacuación eficaces y oportunas figuran en los siguientes aspectos de una alerta integral de tsunami:

- Ciencia de los tsunamis y evaluación de riesgos.
- Estrategia de atenuación de los desastres causados por tsunamis, y gestión de los riesgos de desastre basada en la comunidad.
- Partes interesadas, funciones y responsabilidades, y procedimientos normalizados de operaciones (SOP) y sus vinculaciones.
- Respuesta integral a los tsunamis y SOP.

- Operaciones de los Puntos Focales de Alerta contra los Tsunamis (TWFP) y los Centros de Alerta contra los Tsunamis (TWC).
- Operaciones de la Respuesta de emergencia a los tsunamis.
- Alerta pública.
- La función de los medios de comunicación.
- Evacuación y señalización.
- Uso de ejercicios con fines de preparación.
- Sensibilización y educación.

Para lograr la sostenibilidad a largo plazo de un sistema de alerta contra los tsunamis, cabe tener en cuenta que:

- Los tsunamis deben formar parte de una estrategia relativa a todos los desastres (naturales y causados por la actividad humana).
- Es necesaria la redundancia de los sistemas para garantizar la fiabilidad.
- Es fundamental que los mensajes de seguridad pública de los TWFP y los TWC y de la Respuesta de emergencia a los tsunamis sean claramente comprendidos. La colaboración con los medios de comunicación es importante, con fines tanto de alerta como de preparación.
- La sensibilización debe ser permanente. Los tsunamis son desastres naturales de escasa frecuencia y elevado impacto, y son impredecibles.
- Los comités nacionales, provinciales y locales sobre tsunamis velan por la coordinación entre las partes interesadas y la ejecución de la alerta integral contra tsunamis.

Para recabar detalles específicos y algoritmos, así como para obtener descripciones reales de operaciones de alerta de tsunami y respuesta de emergencia, con inclusión de las redes de datos y el acopio de estos, los métodos de evaluación y los criterios para la acción, los productos publicados y los métodos de comunicación de las alertas y la evacuación, deben consultarse referencias de fuentes o planes originales. Se trata de las descripciones de sistemas de alto nivel o conceptos operativos, manuales de operaciones de organismos y guías para los usuarios de cada sistema regional y nacional.

Las referencias básicas que aportan una síntesis completa de consideraciones relativas a las operaciones de los centros de alerta contra tsunamis y de respuesta de emergencia son las siguientes:

- ITIC IOC Manual on Tsunami Warning Centre Standard Operating Procedures (Guidance and Samples) [Manual ITIC-COI sobre procedimientos normalizados de operaciones de los centros de alerta contra los tsunamis (Orientaciones y ejemplos)], versión 2010 (distribuido en el marco de la capacitación de 2013 sobre SOP).
- ITIC IOC Manual on Tsunami Emergency Response Standard Operating Procedures (Guidance and Samples) [Manual ITIC-COI sobre procedimientos normalizados de operaciones para la respuesta de emergencia a tsunamis (Orientaciones y ejemplos)], versión 2010 (distribuido en el marco de la capacitación de 2013 sobre SOP)

Para una descripción del sistema de alerta contra los tsunamis en el Caribe, elaborada por el Centro de Alerta contra los Tsunamis en el Pacífico y el Centro Nacional estadounidense de Alerta contra los Tsunamis, puede consultarse el Plan de comunicaciones para el servicio provisional de información y asesoramiento sobre tsunamis del Caribe y regiones

adyacentes publicado en la Colección Técnica de la COI (versión de julio de 2006). Se encuentra información general sobre los sistemas mundiales de la COI de alerta contra los tsunamis y sobre la preparación y la atenuación de los efectos en: COI: <http://www.ioc-tsunami.org>, IOC/ITIC <http://www.tsunamiwave.org> y NWS/CTWP <http://www.srh.noaa.gov/srh/ctwp/>.

**Formación**

Con objeto de ayudar a los países a fortalecer sus sistemas de alerta, la COI ha compilado y elaborado un manual de formación que contiene referencias, prácticas idóneas, instrumentos de apoyo a la adopción de decisiones y materiales de orientación en los que se sintetizan los componentes, requisitos y operaciones clave para lograr una alerta y evacuación eficaces y oportunas en caso de tsunami. Los materiales se elaboraron bajo la dirección del ITIC y en estrecha colaboración con profesionales experimentados en materia de alerta contra tsunamis y respuesta de emergencia, y se utilizaron en numerosos cursos de formación desde el tsunami de 2004 ocurrido en el océano Índico.

El manual comprende planes de cursos, presentaciones (en PowerPoint), ejercicios y materiales multimedia. En conjunto, representan parte la contribución basada en la colaboración que aporta la COI al fortalecimiento de las capacidades nacionales y la formación relativas a la alerta integral contra tsunamis y los procedimientos normalizados de operaciones en caso de tsunami en beneficio de los países del océano Índico, el Pacífico, Asia sudoriental y el Caribe. Para más información, sírvase contactar a Laura Kong, Directora, ITIC ([laura.kong@noaa.gov](mailto:laura.kong@noaa.gov)), Bernardo Aliaga, COI ([b.aliaga@unesco.org](mailto:b.aliaga@unesco.org)), Christa von Hillebrandt, US NWS Caribbean Tsunami Warning Program ([christa.vonh@noaa](mailto:christa.vonh@noaa)), o Alison Brome ([a.brome@unesco.org](mailto:a.brome@unesco.org)). Los cuadros presentados a continuación pueden utilizarse como guía para preparar el calendario del ejercicio.

LISTA DE CONTROL RELATIVA A LAS RESPONSABILIDADES DE EVACUACIÓN EN CASO DE TSUNAMI DISTANTE PARA LOS ORGANISMOS PÚBLICOS DE RESPUESTA A LOS DESASTRES		
Esta es una sencilla lista de control que se puede utilizar al proceder a una evacuación. Indique el(los) organismo(s)/departamento(s) responsable(s) de las medidas que deben adoptarse y número recomendado de minutos (por ej., 10 minutos) después de la hora de inicio del seísmo. Se prevé que la hora de llegada de la ola del tsunami será más de 3 horas después de la hora de inicio del seísmo.	Hora de inicio del seísmo: <u>00.00</u>	
	Organismo(s) / Departamento(s):	Hora (minutos):
Recepción del mensaje sobre el tsunami	_____	<u>+10</u>
Convocar al personal	_____	<u>+15</u>
Activar a los centros de emergencia / Notificar a los organismos encargados de la seguridad pública	_____	<u>+25</u>
Coordinar la puesta en marcha de sirenas públicas y notificar la alarma	_____	<u>+45</u>
Iniciar las notificaciones de los medios de comunicación y los anuncios de evacuación		

LISTA DE CONTROL RELATIVA A LAS RESPONSABILIDADES DE EVACUACIÓN EN CASO DE TSUNAMI DISTANTE PARA LOS ORGANISMOS PÚBLICOS DE RESPUESTA A LOS DESASTRES		
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	Organismo(s) / Departamento(s):	Hora (minutos):
	_____	<u>+45</u>
Iniciar la evacuación de las personas lejos de la costa (Mapas de evacuación en caso de tsunami)	_____	<u>Por determinar</u>
Enviar buques y embarcaciones mar adentro si la hora de llegada de la ola lo permite	_____	<u>Por determinar</u>
Establecer controles de carretera y rutas de evacuación	_____	<u>Por determinar</u>
Guiar a las personas hacia refugios por determinados itinerarios	_____	<u>Por determinar</u>
Empezar a convocar a los trabajadores de respuesta a desastres	_____	<u>Por determinar</u>
Abrir y poner en funcionamiento centros de refugio	_____	<u>Por determinar</u>
Preparar la puesta en marcha de generadores de electricidad	_____	<u>Por determinar</u>
Si sus instalaciones se encuentran en una zona de evacuación en caso de tsunami: -Preparar el cierre de los servicios colectivos (por ej., electricidad, gas, agua) -Proteger el equipo esencial (por ej., ordenadores) -Llevarse los documentos clave (por ej., financieros, información personal)	_____	<u>Por determinar</u>
Determinar si el tsunami ha causado daños en el litoral o heridos y la necesidad de emprender operaciones de búsqueda y rescate	_____	<u>Por determinar</u>
Determinar cuándo se declara el final de la alerta	_____	<u>Por determinar</u>
Preparar las operaciones de respuesta a las consecuencias del tsunami	_____	<u>Por determinar</u>
Convocar nominalmente a trabajadores _____ y voluntarios _____	_____	<u>Por determinar</u>

Cuadro I-1. Medidas, organismos y cronología en caso de tsunami distante

Evento	HORA (¿CUÁNDO?)	ACTIVIDAD (¿QUÉ INFORMACIÓN)	AUTORIDAD (¿QUIÉN?)	MEDIO (¿CÓMO?)	A (DESTINA- TARIOS)
Seísmo					
Posibilidad de tsunami					
Evacuación					
Llegada de un tsunami					
Regreso seguro					

Cuadro I-2. Este cuadro puede utilizarse como guía para la cronología, las medidas, las autoridades, los medios de comunicación y los destinatarios en caso de tsunami.



## ANEXO II

### EJEMPLO DE EJERCICIO DE SIMULACIÓN

#### Etapas de la preparación del ejercicio de simulación

Fuente: Oficina de Servicios de Emergencia de California

La simulación es una actividad planificada en que se presentan situaciones de emergencia simuladas a las autoridades locales, funcionarios clave y entidades responsables de la gestión de desastres. Suele ser informal, transcurrir sin prisas, en un ambiente de sala de reuniones, y tiene por objeto suscitar un debate constructivo entre los participantes para evaluar planes, políticas y procedimientos. Los participantes examinarán los problemas e intentarán resolverlos sobre la base de planes y procedimientos, si existen. Se alienta a los participantes a analizar a fondo las decisiones sobre la base de los Procedimientos Normalizados de Operaciones de su organización, haciendo hincapié en la solución de problemas paso a paso, en lugar de la adopción de decisiones rápida y en tiempo real. Un Supervisor del Ejercicio (moderador) presenta un escenario de simulación de tsunami a los participantes mediante un mensaje escrito, una llamada simulada por teléfono o por radio, u otros medios. A continuación se presentan los problemas y las actividades (contribuciones) del Ejercicio. Los participantes debaten colectivamente hasta llegar a una resolución generalmente acordada y sintetizada por un jefe de grupo. Un ejercicio de simulación debe tener metas específicas, objetivos y una descripción del escenario.

A continuación se expone la estructura de un ejercicio de simulación con muestras de textos y ejemplos.

1. Análisis de la vulnerabilidad: enunciado del problema

*Un ejemplo en caso de huracán podría ser:*

*Debido a los recientes huracanes que afectaron al sudeste de los Estados Unidos, ha aumentado la conciencia del peligro de amenaza que entrañan esos desastres, por lo que la necesidad de un sistema de evacuación es vital. El Estado de Luisiana prosigue sus tareas de planificación, preparación y formación en previsión de que se produzcan huracanes.*

2. Propósito (Cometido): intenciones, qué se prevé lograr (Declaración de política)

*Un ejemplo en caso de huracán podría ser:*

*El Estado de Luisiana ha tomado conciencia de la necesidad de disponer de un sistema de evacuación más eficiente y eficaz y, reconociéndola, le responde con este Plan de Ejercicio Integral. Incluye seminarios, talleres, un ejercicio de simulación, un ejercicio funcional y un ejercicio integral en un plazo de 18 meses, en el marco del programa de subsidios de la Seguridad Interior del Estado.*

3. Alcance: Actividades del Ejercicio

Organismos participantes

Tipo de peligro

Zona geográfica afectada

*Un ejemplo podría ser:*

*Los coordinadores de Servicios de Emergencia a nivel local del gobierno designarán las autoridades representativas de cada una de las seis regiones de ayuda mutua situadas en el territorio del Estado para que acojan una serie de ejercicios de preparación para casos de desastre. Estas autoridades anfitrionas elaborarán una serie gradual de ejercicios, basándose cada uno en el tipo de ejercicio anterior. El proceso comenzará con un análisis de la vulnerabilidad de las zonas que les competen y proseguirá con actividades sucesivas que incluirán: seminarios de orientación, talleres y ejercicios de simulación y funcionales. El objetivo final de estas actividades será reducir los efectos de los desastres en su población y su infraestructura urbana. Todos los eventos se evaluarán utilizando las normas de presentación de informes posterior a la actividad establecidas por el Programa de Evaluación de Ejercicios de la Seguridad del Interior de los Estados Unidos de América (HSEEP). Las etapas de las medidas correctivas pasarán a ser parte del proceso y el informe posteriores a la acción. Las autoridades de zonas vecinas de la zona de ayuda mutua serán miembros del equipo de diseño del ejercicio y evaluadores u observadores del ejercicio a los fines de la transmisión de información para incrementar su disponibilidad operacional. Las autoridades participarán por turno, cada dos años, lo que permitirá incrementar el número de autoridades participantes.*

4. Metas y objetivos: Criterios “SMART” (por sus siglas en inglés) que definen buenos objetivos:

- Simples (concisos)
- Mensurables
- Asequibles (¿se puede hacer esto durante el ejercicio?)
- Realistas (y estimulantes)
- Orientados hacia las tareas (orientados hacia las funciones)
- Un ejemplo podría ser
- Objetivos del programa del Ejercicio Integral:
- Mejorar la disponibilidad operacional.
- Reforzar la coordinación entre múltiples organismos y las capacidades para dar una respuesta eficaz a un desastre.
- Determinar los cauces de comunicación y las áreas problemáticas antes del desastre entre las autoridades locales y la zona de operaciones, y los centros regionales y estatales de operaciones para casos de emergencia.
- Establecer métodos uniformes de encargo, seguimiento y suministro de recursos para las entidades participantes en todos los niveles de gobierno.

5. Descripción del evento

La descripción del evento debe incluir lo siguiente:

- Activación de la emergencia/desastre
- Descripción del medio ambiente en el momento en que comienza el ejercicio
- Información de referencia necesaria
- Preparación de los participantes para el Ejercicio
- Descubrimiento, información: ¿cómo supo Ud. que se aproximaba un tsunami?

- ¿Notificación previa?
- Hora, ubicación, extensión o gravedad de los daños

6. Evaluación:

En la Evaluación ha de describirse lo siguiente:

- Cotejo con los objetivos
- Formación de los equipos de evaluación
- Elaboración de formularios de evaluación

7. Informe posterior a la actividad.

Este informe debe elaborarse utilizando los informes de evaluación.

8. Plan de mejoramiento

Este Plan debería reducir las vulnerabilidades.

## ANEXO III

### DESCRIPCIÓN DEL ESCENARIO

El objetivo de este ejercicio es simular un fenómeno que afecta a una amplia parte de la región del Caribe y el Atlántico estadounidense y canadiense, y refleja una posible situación hipotética.

Los parámetros del hipocentro del seísmo son los siguientes (basados en Barkan *et al*, 2009 fuente #5):



Los modelos de tsunami se calcularon utilizando el pronóstico de inundación a corto plazo en caso de tsunami (Short-term Inundation Forecasting of Tsunamis (SIFT)), el modelo de predicción de tsunami de Alaska (ATFM), y el modelo de inundación rápida y pronóstico de tsunami para determinar los efectos esperados en toda la región. Los modelos indicaron un tsunami de uno a dos metros de altura a lo largo de la costa septentrional de Puerto Rico, las Islas Vírgenes y las Bermudas, y de menos de un metro a lo largo de la mayor parte de la costa oriental de Estados Unidos de América y Canadá.

Las fórmulas del desplazamiento del fondo marino se utilizaron para determinar la elevación, y los modelos calcularon la propagación del tsunami desde la fuente para producir predicciones de la amplitud del tsunami en todo el Caribe, y a lo largo de las costas atlánticas estadounidenses y canadienses. En las Figuras III-1 a III-11 se presentan muestras de resultados de los modelos en los que se indican las amplitudes máximas previstas por encima del nivel del mar que figura en el Cuadro III-1. Cabe destacar que la más alta elevación del tsunami alcanzada en tierra podría ser el doble de la que indican los resultados de los modelos, ya que éstos se determinan con respecto a la orilla.

Una alerta, aviso o advertencia de tsunami real emitidos en relación con un evento como éste duraría muchas horas más que este ejercicio, que fue adaptado para que se pudiera llevar a cabo en un lapso comprimido.

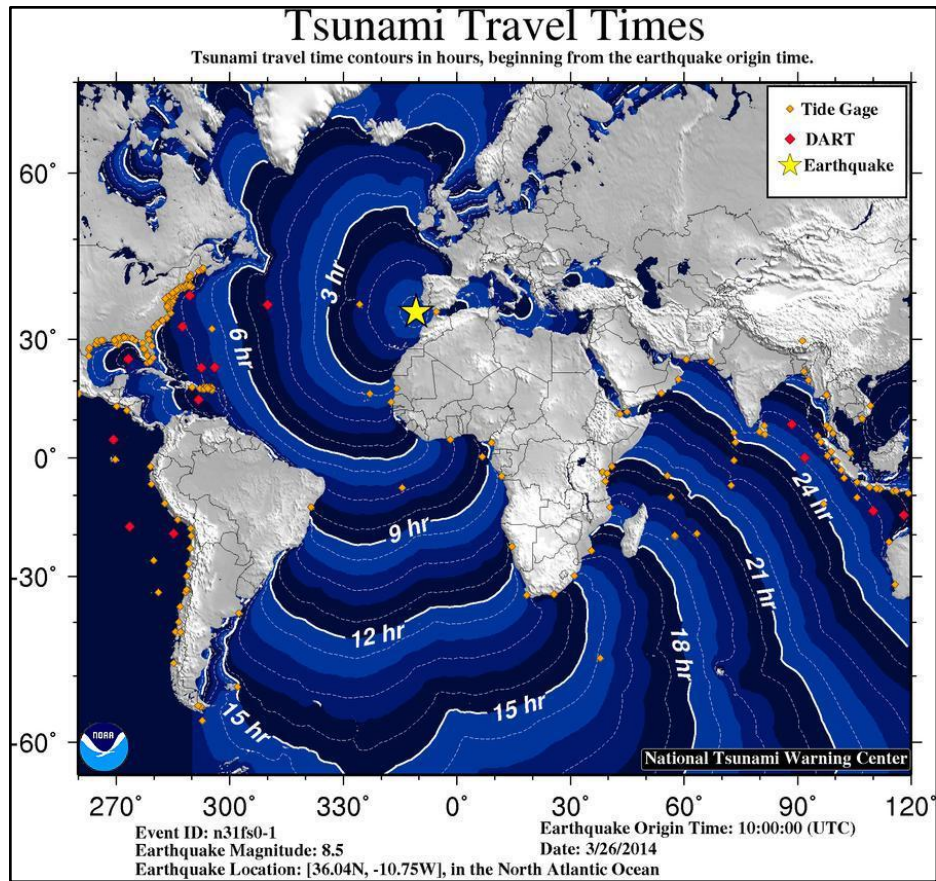
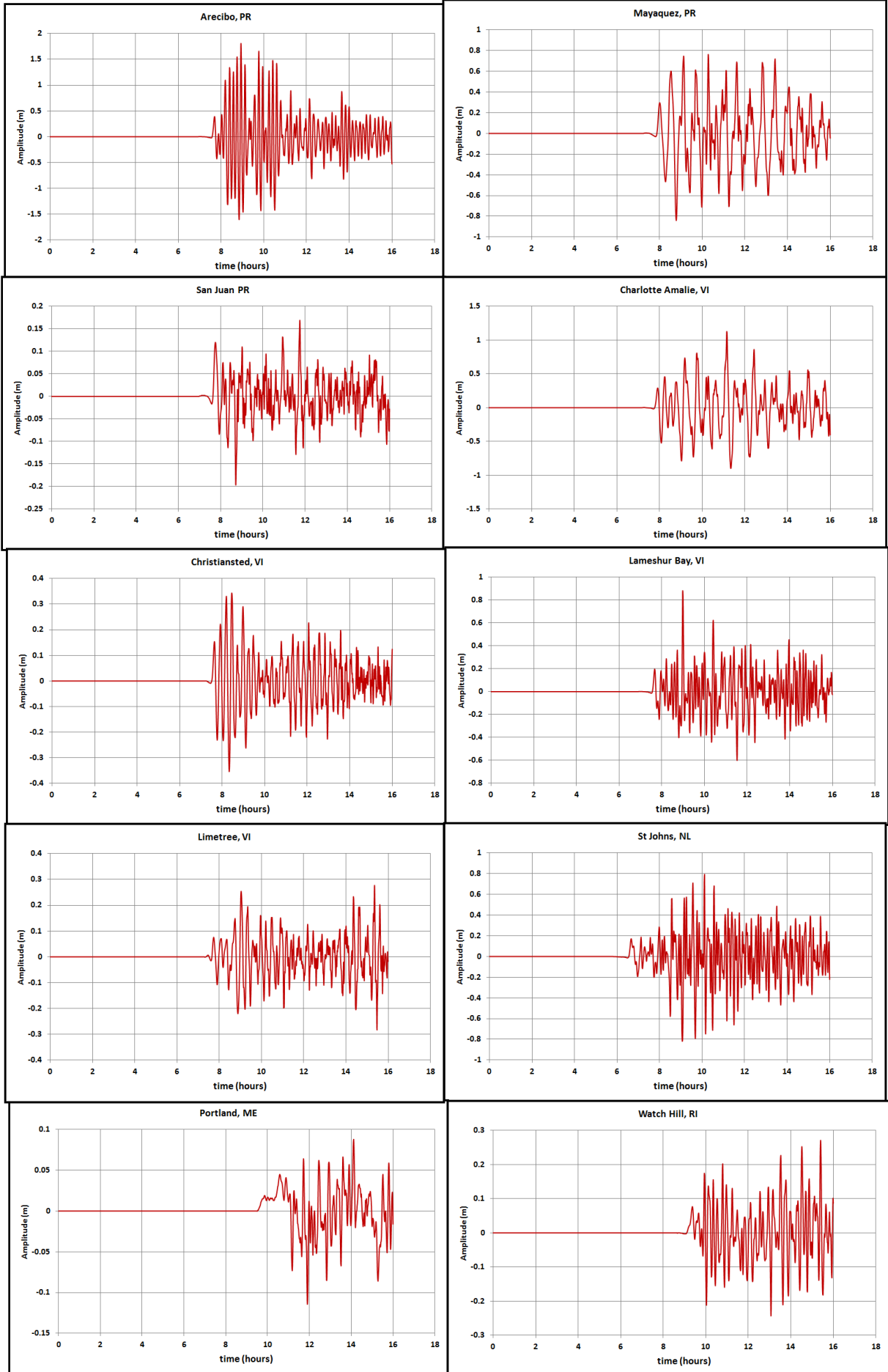


Figura III-1. Mapa del tiempo de propagación del tsunami para el Ejercicio Caribe Wave/Lantex14



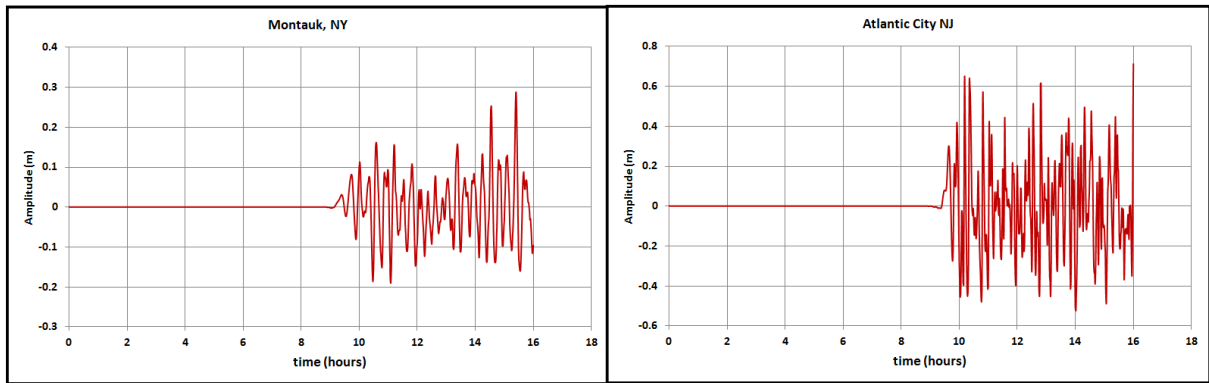


Figura III-2. Variaciones del tsunami en el tiempo en diversos sitios de las costas estadounidense y canadiense. Los ejes verticales se indican en metros y los ejes horizontales en horas a partir de la hora de inicio.

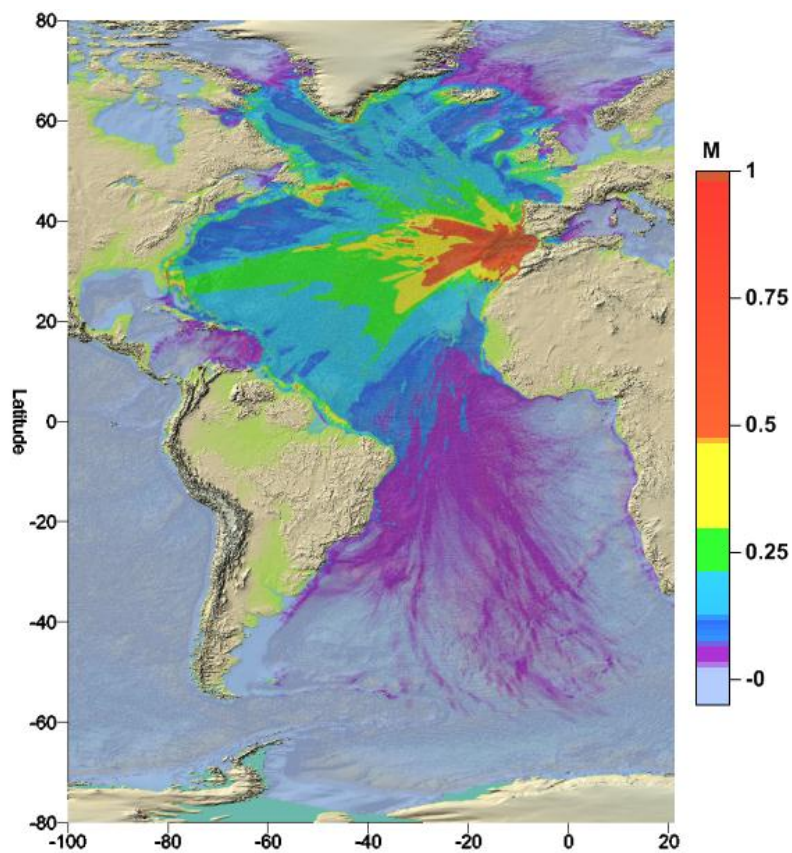


Figura III-3. Predicción de la altura máxima de la ola en el Atlántico



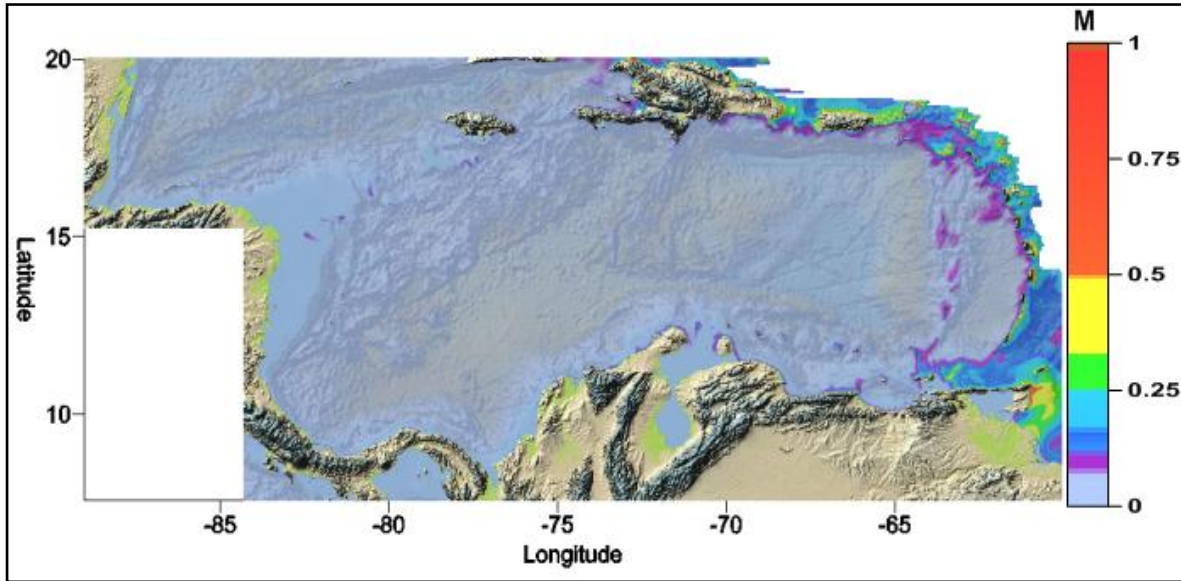


Figura III-4. Predicción de la altura máxima de la ola en el Caribe

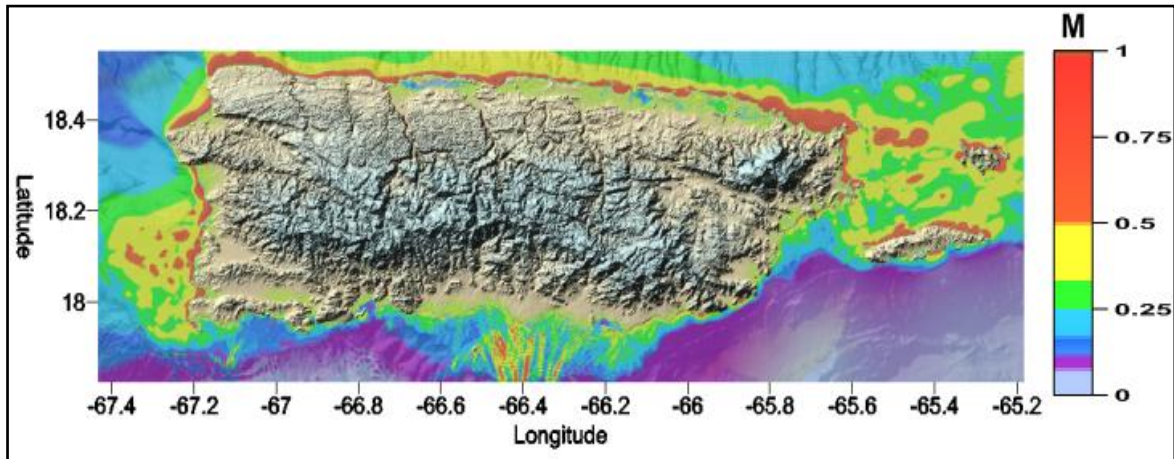


Figura III-5. Predicción de la altura máxima de la ola a lo largo de la costa de Puerto Rico

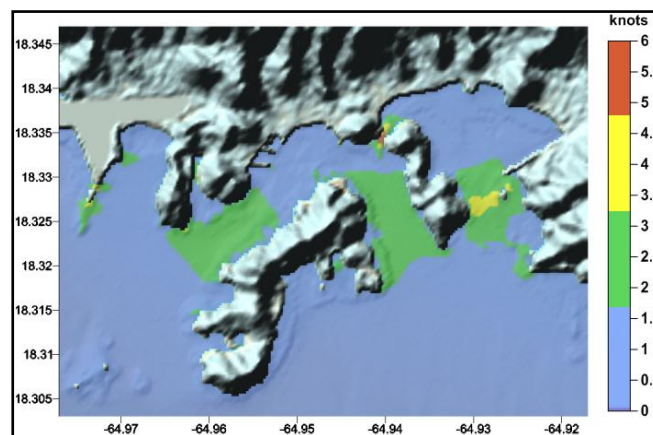


Figura III-6. Corrientes máximas previstas en Charlotte Amalie (Islas Vírgenes de los Estados Unidos de América).



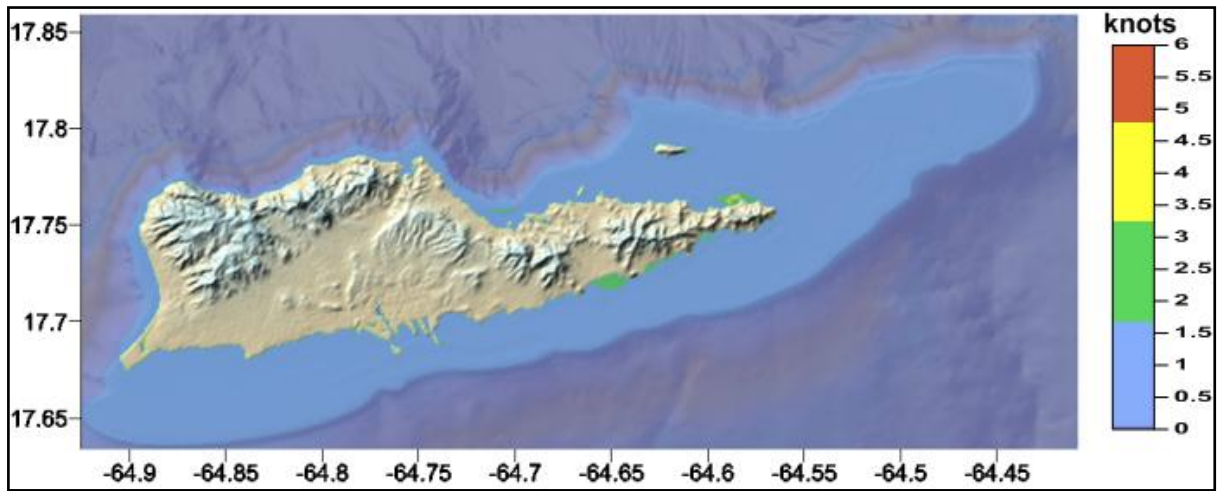


Figura III-7. Corrientes máximas previstas en St. Croix  
(Islas Vírgenes de los Estados Unidos de América).

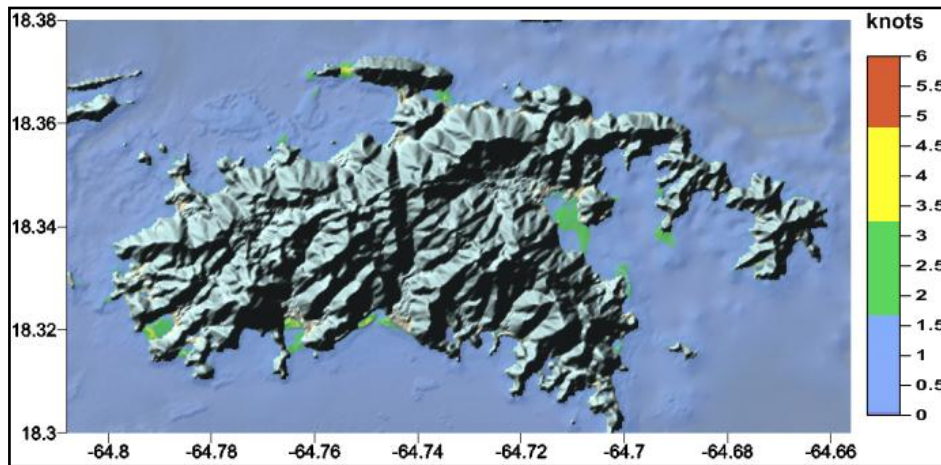


Figura III-8. Corrientes máximas previstas en St. John  
(Islas Vírgenes de los Estados Unidos de América).

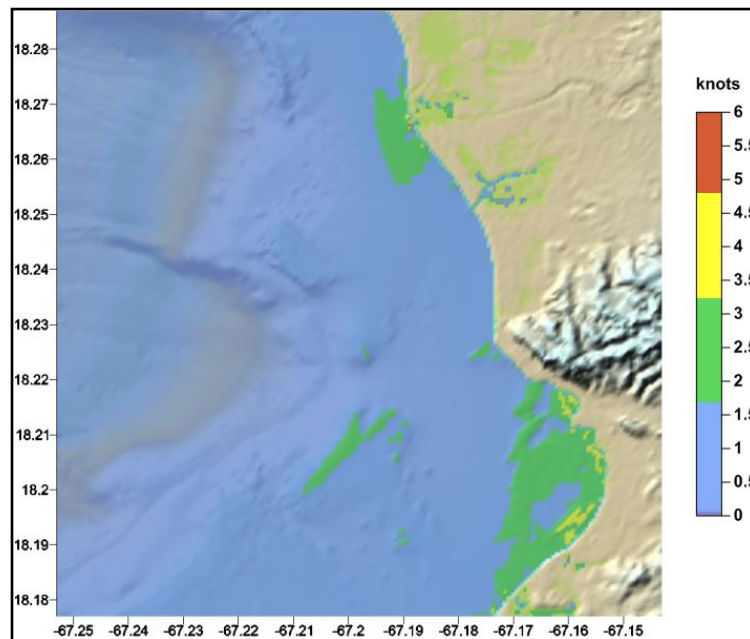


Figura III-9. Corrientes máximas previstas en Mayagüez (Puerto Rico)

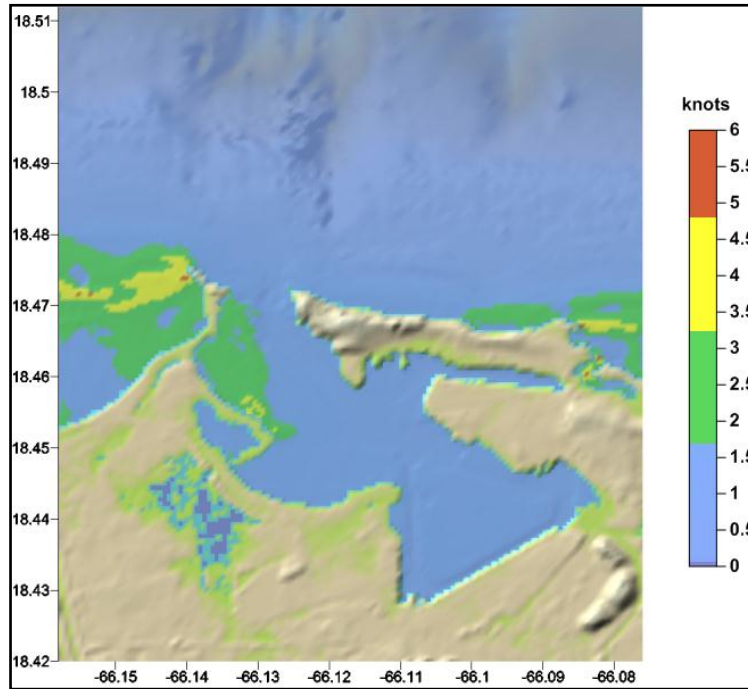


Figura III–10. Corrientes máximas previstas en San Juan (Puerto Rico)

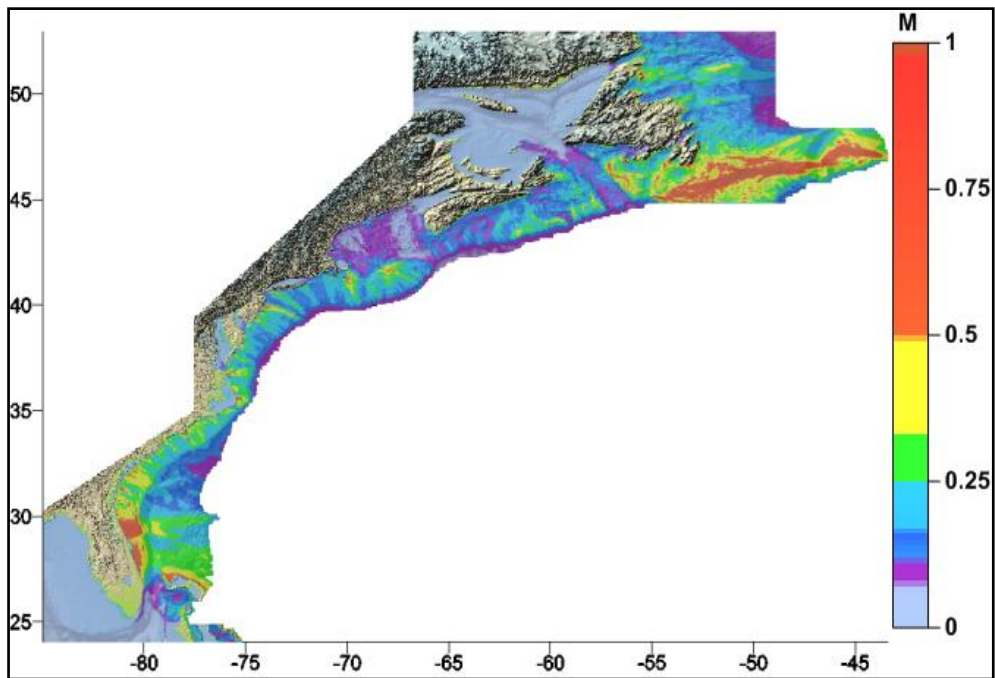


Figura III–11. Predicción de la altura máxima de la ola a lo largo de la costa oriental de Estados Unidos de América y Canadá.

Ubicación	TIEMPO DE PROPAGACIÓN (HORAS.MINUTOS)	AMPLITUD MÁXIMA	PRIMER EFECTO
D44401	05.03	0,43 FT/0,13 M	elevación
NANORTALIK GL	05.46	1,57 FT/0,48 M	elevación
TRISTAN DE CUNHA UK	06.08	1,12 FT/0,34 M	elevación
ANGMAGSALIK GL	06.13	1,74 FT/0,53 M	elevación
ST JOHNS NL	06.40	2,59 FT/0,79 M	elevación
BERMUDA	06.57	3,90 FT/1,19 M	elevación
D41421	07.03	0,49 FT/0,15 M	elevación
D44402	07.24	0,30 FT/0,09 M	elevación
D41420	07.30	0,49 FT/0,15 M	elevación
CHRISTIANSTED USVI	07.38	1,12 FT/0,34 M	elevación
D41424	07.38	0,36 FT/0,11 M	elevación
LAMESHUR BAY USVI	07.40	2,88 FT/0,88 M	elevación
ARECIBO PR	07.42	5,94 FT/1,81 M	elevación
LIMETREE USVI	07.44	0,92 FT/0,28 M	elevación
SAN JUAN PR	07.44	0,56 FT/0,17 M	retirada
CHARLOTTE AMALIE USVI	07.55	3,71 FT/1,13 M	elevación
FAJARDO PR	07.55	2,95 FT/0,90 M	elevación
MAYAGUEZ PR	08.01	2,49 FT/0,76 M	elevación
D42407	08.14	0,13 FT/0,14 M	elevación
DUCK NC	09.16	1,41 FT/0,43 M	elevación
WATCH HILL RI	09.22	0,89 FT/0,27 M	elevación
MONTAUK NY	09.24	0,95 FT/0,29 M	elevación
OCEAN CITY MD	09.25	0,52 FT/0,16 M	elevación
ATLANTIC CITY NJ	09.38	2,34 FT/0,71 M	elevación
JUPITER FL	09.49	2,10 FT/0,64 M	elevación
PORTLAND ME	09.51	0,30 FT/0,09 M	elevación
VIRGINIA BEACH VA	09.53	1,67 FT/0,51 M	elevación
WRIGHTSVILLE NC	10.18	1,54 FT/0,47 M	elevación
DAYTONA FL	10.46	3,58 FT/1,09 M	retirada
KEY WEST FL	11.07	0,07 FT/0,02 M	elevación

Cuadro III-1. Altura en la costa prevista. La altura es la elevación del tsunami por encima del nivel del mar. La altura se mide frente a la costa; la elevación en tierra puede ser el doble de la altura que se registra en la orilla.

## ANEXO VI

### EJEMPLO DE COMUNICADO DE PRENSA PARA ÓRGANOS INFORMATIVOS LOCALES

MODELO DEL COMUNICADO DE PRENSA

UTILICE EL MEMBRETE DEL ORGANISMO

Contacto: (Indicar nombre y apellido)

**PARA PUBLICACIÓN INMEDIATA**

(Indicar número de teléfono)

(Indicar)

(Indicar dirección de correo electrónico)

#### **EJERCICIO DE TSUNAMI EN EL CARIBE Y EL ATLÁNTICO NOROCCIDENTAL QUE SE HA DE REALIZAR EL 26 de marzo de 2014**

*(Indicar comunidad/distrito/Estado)* se sumará a otras localidades de la región del Caribe y el Atlántico noroccidental como participante en un ejercicio de tsunami el 26 de marzo de 2014. La finalidad de este ejercicio es evaluar las comunicaciones, poner a prueba los procedimientos normalizados de operaciones y los planes de respuesta a los tsunamis, ampliar la preparación a los tsunamis y mejorar la coordinación en toda la región.

*(Insertar un comentario promocional de un funcionario local, como “Los terremotos y tsunamis que afectaron a Chile y Haití en 2010 y al Japón en 2011 recordaron una vez más al mundo la apremiante necesidad de estar mejor preparados para esos fenómenos”, afirmó (indicar el nombre y apellido del funcionario). “Este importante ejercicio pondrá a prueba los procedimientos vigentes del sistema de alerta contra tsunamis y ayudará a determinar los puntos fuertes y las deficiencias operacionales de cada comunidad”. (Sírvase modificar según convenga para dar cuenta de las singularidades.)*

El ejercicio, denominado CARIBE WAVE/LANTEX 14, simulará una situación de alerta y vigilancia generales de tsunamis en todo el Caribe y el Atlántico noroccidental, lo cual requiere la aplicación de planes locales de respuesta a los tsunamis. El ejercicio (insertar “*incluirá*” o “*no incluirá*”) la notificación al público.

El ejercicio simulará un importante seísmo y un tsunami generados a 270 millas al oeste de Gibraltar a las 06.00 (hora estándar del Atlántico) (*u hora local apropiada*) el 26 de marzo de 2014. Se ha elaborado un manual en el que se describe el escenario y figuran los mensajes sobre tsunamis del Centro Nacional de Alerta contra los Tsunamis (NTWC) y el Centro de Alerta contra los Tsunamis en el Pacífico (PTWC). El NTWC de los Estados Unidos de América es actualmente responsable de emitir alertas de tsunami a las zonas costeras atlánticas de ese país y del Canadá, la costa del Golfo de México, Puerto Rico y las Islas Vírgenes (británicas y estadounidenses), mientras que el PTWC cumple con carácter provisional la función de Proveedor regional de avisos sobre tsunamis para los demás países del mar Caribe y regiones adyacentes.

*Insertar un párrafo adaptado a la comunidad específica de que se trata. Se podrían mencionar los organismos participantes y planes concretos, describir el programa vigente de alerta temprana, ejercicios sobre tsunamis anteriores (de haberlos), los programas en curso de atenuación de los efectos y educación de la población, etc. Se podría describir la amenaza de tsunami, la historia de los peligros asociados a tsunamis, de haberlos.*

Si se produce una amenaza real de tsunami durante el ejercicio, se pondrá fin a este último.

El ejercicio se realiza bajo los auspicios del Grupo Intergubernamental de Coordinación de la COI/UNESCO del Sistema de Alerta contra los Tsunamis y otras Amenazas Costeras en el Caribe y Regiones Adyacentes (ICG/CARIBE-EWS), la Agencia de Manejo de Emergencias y Desastres del Caribe (CDEMA), el Centro de Coordinación para la Prevención de los Desastres Naturales en América Central (CEPRENAC), la Administración Nacional Oceánica y Atmosférica (NOAA) de los Estados Unidos de América y el Programa nacional estadounidense de atenuación del riesgo de tsunami (NTHMP, una asociación de 29 estados y territorios y tres organismos federales). Para más información sobre el sistema estadounidense de alerta contra los tsunamis, véase [www.tsunami.gov](http://www.tsunami.gov). Para más información sobre el NTHMP, véase [nthmp.tsunami.gov](http://nthmp.tsunami.gov). Para más información sobre el ICG/CARIBE-EWS, véase <http://www.ioc-tsunami.org>.

###

En Internet:

ICG/CARIBE EWS	<a href="http://www.ioc-tsunami.org">http://www.ioc-tsunami.org</a>
Centro Nacional estadounidense de Alerta contra los Tsunamis:	<a href="http://ntwc.arh.noaa.gov">http://ntwc.arh.noaa.gov</a>
Centro de Alerta contra los Tsunamis en el Pacífico	<a href="http://ptwc.weather.gov">http://ptwc.weather.gov</a>
Programa de la NOAA sobre tsunamis	<a href="http://www.tsunami.gov">http://www.tsunami.gov</a>
NTHMP	<a href="http://nthmp.tsunami.gov">http://nthmp.tsunami.gov</a>
Programa de alerta contra los tsunamis en el Caribe	<a href="http://www.srh.noaa.gov/srh/ctwp/">http://www.srh.noaa.gov/srh/ctwp/</a>
Red Sísmica de Puerto Rico	<a href="http://prsn.uprm.edu">http://prsn.uprm.edu</a>

Indicar los URL de los organismos de respuesta de emergencia estatales y/o locales.

**IOC Technical Series**

<b>No.</b>	<b>Title</b>	<b>Languages</b>
1	Manual on International Oceanographic Data Exchange. 1965	(out of stock)
2	Intergovernmental Oceanographic Commission (Five years of work). 1966	(out of stock)
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4	Manual on International Oceanographic Data Exchange - Second revised edition. 1967	(out of stock)
5	Legal Problems Associated with Ocean Data Acquisition Systems (ODAS). 1969	(out of stock)
6	Perspectives in Oceanography, 1968	(out of stock)
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8	IGOSS (Integrated Global Ocean Station System) - General Plan Implementation Programme for Phase I. 1971	(out of stock)
9	Manual on International Oceanographic Data Exchange - Third Revised Edition. 1973	(out of stock)
10	Bruun Memorial Lectures, 1971	E, F, S, R
11	Bruun Memorial Lectures, 1973	(out of stock)
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13	International Decade of Ocean Exploration (IDOE), 1971-1980. 1974	(out of stock)
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15	Bruun Memorial Lectures, 1975 - Co-operative Study of the Kuroshio and Adjacent Regions. 1976	(out of stock)
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*(continued)*

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35	Global Sea-Level Observing System (GLOSS) Implementation Plan. 1990	E only
36	Bruun Memorial Lectures 1989: Impact of New Technology on Marine Scientific Research. 1991	Composite E, F, S
37	Tsunami Glossary - A Glossary of Terms and Acronyms Used in the Tsunami Literature. 1991	E only
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49	Global Temperature Salinity Profile Programme: Overview and Future. 1998	E only
50	Global Sea-Level Observing System (GLOSS) Implementation Plan-1997. 1997	E only
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(continued)



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82	Exercise Pacific Wave 08 – A Pacific-wide Tsunami Warning and Communication Exercise, 28–30 October 2008. 2008	E only
83.	<i>Cancelled</i>	
84.	Global Open Oceans and Deep Seabed (GOODS) Bio-geographic Classification. 2009	E only
85.	Tsunami Glossary	E, F, S
86	Pacific Tsunami Warning System (PTWS) Implementation Plan ( <i>under preparation</i> )	
87.	Operational Users Guide for the Pacific Tsunami Warning and Mitigation System (PTWS) – Second Edition. 2011	E only
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89.	Ship-based Repeat Hydrography: A Strategy for a Sustained Global Programme. 2009	E only
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91.	Compendium of Definitions and Terminology on Hazards, Disasters, Vulnerability and Risks in a coastal context	<i>Under preparation</i>
92.	27 February 2010 Chile Earthquake and Tsunami Event – Post-Event Assessment of PTWS Performance (Pacific Tsunami Warning System). 2010	E only
93.	Exercise CARIBE WAVE 11 / LANTEX 11—A Caribbean Tsunami Warning Exercise, 23 March 2011	
	Vol. 1 Participant Handbook / Exercise CARIBE WAVE 11 —Exercice d'alerte au tsunami dans les Caraïbes, 23 mars 2011. Manuel du participant / Ejercicio Caribe Wave 11. Un ejercicio de alerta de tsunami en el Caribe, 23 de marzo de 2011. Manual del participante. 2010	E/F/S
	Vol. 2 Report. 2011	E only
	Vol. 3 Supplement: Media Reports. 2011	E/F/S
94.	Cold seeps, coral mounds and deep-water depositional systems of the Alboran Sea, Gulf of Cadiz and Norwegian continental margin (17th training-through-research cruise, June–July 2008)	<i>Under preparation</i>
95.	International Post-Tsunami Survey for the 25 October 2010 Mentawai, Indonesia Tsunami	<i>Under preparation</i>
96.	Pacific Tsunami Warning System (PTWS) 11 March 2011 Off Pacific coast of Tohoku, Japan, Earthquake and Tsunami Event. Post-Event Assessment of PTWS Performance	<i>Under preparation</i>
97.	Exercise PACIFIC WAVE 11: A Pacific-wide Tsunami Warning and Communication Exercise, 9–10 November 2011	
	Vol. 1 Exercise Manual. 2011	E only
	Vol. 2 Report. 2013	E only
98.	Tsunami Early Warning and Mitigation System in the North-Eastern Atlantic, the Mediterranean and connected seas. First Enlarged Communication Test Exercise (ECTE1). Exercise Manual and Evaluation Report. 2011	E only

No.	Title	Languages
99.	Exercise INDIAN OCEAN WAVE 2011 – An Indian Ocean-wide Tsunami Warning and Communication Exercise, 12 October 2011 Vol. 1 Exercise Manual. 2011 Supplement: Bulletins from the Regional Tsunami Service Providers Vol. 2 Exercise Report. 2013	E only
100.	Global Sea Level Observing System (GLOSS) Implementation Plan – 2012. 2012	E only
101.	Exercise Caribe Wave/Lantex 13. A Caribbean Tsunami Warning Exercise, 20 March 2013. Volume 1: Participant Handbook. 2012	E only
102.	<i>(In preparation)</i>	
103.	Exercise NEAMWAVE 12. A Tsunami Warning and Communication Exercise for the North-eastern Atlantic, the Mediterranean, and Connected Seas Region, 27–28 November 2012, Volume I: Exercise Manual. 2012	E only
104.	Seísmo y tsunami del 27 de agosto de 2012 en la costa del Pacífico frente a El Salvador, y seísmo del 5 de septiembre de 2012 en la costa del Pacífico frente a Costa Rica. Evaluación subsiguiente sobre el funcionamiento del Sistema de Alerta contra los Tsunamis y Atenuación de sus Efectos en el Pacífico. 2012	Español solamente (resumen en inglés y francés)
105.	Users Guide for the Pacific Tsunami Warning Center Enhanced Products for the Pacific Tsunami Warning System. 2013	E, S
106.	Exercise Pacific Wave 13. A Pacific-wide Tsunami Warning and Enhanced Products Exercise, 1–14 May 2013. Vol. 1 Exercise Manual. 2013 Vol. 2 Summary Report. 2013	E only
107.	Tsunami Public Awareness and Educations Strategy for the Caribbean and Adjacent Regions. 2013	E only
108.	Pacific Tsunami Warning and Mitigation System (PTWS) Medium-Term Strategy, 2014–2021. 2013	E only
109.	Exercise Caribe Wave/Lantex 14. A Caribbean and Northwestern Atlantic Tsunami Warning Exercise, 26 March 2014. Vol. 1 Participant Handbook. 2014	E/S