

Exercise LANTEX19 Participant Handbook

An Atlantic tsunami warning exercise
March 26, 2019

National Tsunami Hazard Mitigation Program
Warning Coordination Subcommittee



NOTE: The contents of this handbook are patterned after previous LANTEX and CARIBE WAVE Exercises (e.g., Commission Océanographique Intergouvernementale. Exercise Caribe Wave 11. A Caribbean Tsunami Warning Exercise, 23 March 2011, IOC Technical Series No. 93. Paris, UNESCO, 2011 (English/ French/ Spanish), Intergovernmental Oceanographic Commission Exercise Caribe Wave/Lantex 13, A Caribbean Tsunami Warning Exercise, 20 March 2013, Volume 1: Participant Handbook, IOC Technical Series No. 101, Paris, UNESCO, 2012 and Intergovernmental Oceanographic commission. 2013. Exercise Caribe Wave/Lantex 14. A Caribbean and Northwestern Atlantic Tsunami Warning Exercise, 26 Marc 2014. Volume 1: Participant Handbook. IOC Technical Series, 109 vol. 1. Paris: UNESCO. (English and Spanish)). These CARIBE WAVE handbooks followed the 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 No. 82, Paris, UNESCO, 2008). The UNESCO How to Plan, Conduct and Evaluate Tsunami Wave Exercises. IOC Manuals and Guides No. 58 rev., Paris: UNESCO, 2013 (English, Spanish) is another important reference.

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1. Background

This tsunami exercise is being conducted to assist tsunami preparedness efforts along the U.S. and Canadian east coasts, the Gulf of Mexico coast, and in Puerto Rico and the Virgin Islands. Historical tsunami records from sources such as the National Oceanic and Atmospheric Administration's (NOAA) National Geophysical Data Center (NGDC) show that approximately 85% of the world's oceanic tsunamis occur in the Pacific Basin. While the historic occurrence of destructive tsunamis along the U.S. and Canadian Atlantic coasts suggests these events are rare, there are a few areas in the Atlantic basin where earthquakes occur that have the potential to develop destructive tsunamis that may impact the U.S./Canadian coast. These areas include the coasts of Puerto Rico, the U.S. Virgin Islands, the region east of the Azores Islands, and portions of the continental slope off the U.S. and Canadian coast due to sub-sea landslides.

Lessons learned from the destructive Indian Ocean tsunami include that even areas rarely impacted by tsunamis can suffer tremendous damage and casualties if the people that live and/or travel in these areas are not prepared.

Statistics from the NGDC tsunami database show that the U.S. Virgin Islands were struck by a tsunami up to 8m high in 1867 which killed 30 people. Over 140 people were killed in western Puerto Rico by a 6m tsunami in 1918. The Caribbean is a region of complex plate tectonic boundaries which provide the mechanism for earthquakes to trigger large tsunamis.

Another area in the Atlantic Ocean capable of producing large earthquakes is the region between Portugal and the Azores Islands. In 1755 an earthquake located in this region, estimated at over magnitude 8, generated a tsunami up to 30m in Portugal. The tsunami was recorded widely around the Atlantic producing damage at several locations including Canada and the Caribbean.

Closer to the Canadian Atlantic shore, a magnitude 7.2 earthquake in 1929 triggered a large, sub-sea landslide which triggered a tsunami. This tsunami reached 7m amplitude in Newfoundland and killed 22 people. Recent studies of the continental slope along the U.S. east coast show that this type of tsunami has likely occurred several times within the past 10,000 years.

NOAA operates a tsunami warning system for U.S. Atlantic and Gulf of Mexico coasts, and eastern Canada through its National Tsunami Warning Center (NTWC) in Palmer, Alaska. This Center provides tsunami warning, watch, advisory, and information messages to these coasts approximately five minutes after an earthquake's occurrence. Primary recipients of NTWC Atlantic messages include National Weather Service (NWS) coastal Weather Forecast Offices (WFO), state/territory warning points/emergency operation centers, the U.S. Coast Guard, the Canadian Atlantic Storm Prediction Center, and the U.S. military. These agencies transmit the message to people potentially impacted by a tsunami. NOAA's Pacific Tsunami Warning Center (PTWC) on Ford Island, Hawaii provides a similar service in the Caribbean Sea, and for Puerto Rico and the Virgin Islands. The Puerto Rico

Seismic Network (PRSN) of the University of Puerto Rico at Mayagüez also provides earthquake and tsunami information and warning service to Puerto Rico and the Virgin Islands in coordination with the PTWC.

NOAA and the National Tsunami Hazard Mitigation Program (NTHMP) are providing the framework for this exercise as a means for emergency responders along the Atlantic coast and in PR/VI to test and update tsunami response plans. High levels of vulnerability along the Atlantic coast as well as the Indian Ocean analogy should provide a strong incentive for local jurisdictions to prepare for a tsunami.

This exercise will provide simulated tsunami warning and advisory messages from the NTWC triggered by a hypothetical earthquake located 125 miles northwest of Mayaguez, Puerto Rico at 19.2°N, 68.7°W. Exercises like this will ensure that the U.S./Canadian Atlantic and Caribbean coasts are ready to respond in the unlikely case of a dangerous tsunami. Recent exercises in the Pacific Basin have proven effective in strengthening preparedness levels of emergency management organizations.

2. Exercise Concept

2.1 Purpose

The purpose of the exercise is to improve Tsunami Warning System effectiveness the U.S./Canadian Atlantic and Caribbean coasts. The exercise provides an opportunity for emergency management organizations along the Atlantic coast and PR/VI to exercise operational lines of communications, review 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 U.S. and Canadian Atlantic 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 exercise's overarching objectives.

- Ensure message transmission from the NTWC to primary customers.
- Test tsunami response plans for EMOs that have developed plans, and provide a catalyst for EMOs that have not developed plans.
- EMOs review, discuss, and evaluate the various communication alternatives for receiving and disseminating tsunami messages.
- EMOs review, discuss, and evaluate potential response actions and challenges.

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. Individual localities, however, may at their discretion elect to extend the exercise down to the level of testing local notification systems such as sirens or loudspeakers.

Exercises stimulate the development, training, testing, and evaluation of Disaster Plans and Standard Operating Procedures. Exercise participants may use their own past multi-hazard drills (e.g. flood, hurricane, earthquake, etc.) as a framework to conduct LANTEX19.

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. 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 Appendix A 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 center, emergency command center, command post, master control center, 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 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 centers 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.

Example Time Frames for Different Exercise Types

Style	Planning Period	Duration	Comments
Orientation Exercise	2 wks	1 day	Individual or mixed groups
Drill	2 days	1 day	Individual technical groups generally
Tabletop Exercise	2 weeks	1-3 days	Single or multiple agency
Functional Exercise	1-2 months	1-5 days	Multiple Agency participation
Full-scale Exercise	2-6 months	1 day/ week	Multiple Agency participation

3. Exercise Outline

3.1 General

The scenario will start with a magnitude 8.5 earthquake located 125 miles northwest of Mayaguez, Puerto Rico at 19.2°N, 68.7°W. The earthquake occurs at 1200UTC on March 26, 2019. The earthquake generates a significant tsunami in Puerto Rico and the Virgin (tsunami amplitudes over 2.0 m). A moderate tsunami is observed along other portions the U.S. Atlantic coast (tsunami amplitudes 0.5 to 1 m). Most regions along the coast do not experience major inundations, though all areas experience at a minimum strong currents which may produce significant amounts of damage to boats, harbors, and docks as well as make swimming dangerous.

Initially, a Watch is issued for the east coast, followed by an Advisory for those regions that experience runups greater than 0.3 m. Appendix B shows expected tsunami amplitudes along the coast. These amplitudes are what would be recorded by a tide gage and do not necessarily reflect the expected vertical runup along the shore. Typically, vertical runups can exceed double the height of the tide gage observation.

NTWC will not issue live messages during the exercise other than to issue an initial “dummy” message over standard communication routes to start the exercise at 1205UTC on March 26, 2019. The content of the dummy message is given in Appendix C. 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 1 to look at new messages. Table 1 is the timeline for when messages would be issued by NTWC if this were a real event and should be used by EMOs to drive the exercise timing. The warning messages (as shown in Appendix D) cover a 15-hour period, though in an actual event they would likely continue longer. World Meteorological Organization (WMO) and Advanced Weather Interactive Processing System (AWIPS) headers used in the dummy message are listed in Table 2.

During real events, the NTWC issues two official products each time a message is issued. The first, and the ones provided in Appendix D, are known as the standard message. This message is a segmented message which includes encoded NWS zones, Valid Time Event Codes (VTEC), and their level of threat in the lower section of the message. The segmentation is used for automated processing systems which parse NWS products. The standard product also lists expected arrival times. The second product is known as the public message. This message has no segmentation and is written in a non-tabular, easier-to-read format. The products contain the same basic information. EMOs generally use the standard product for warning response as it has more complete information. NTWC also issues additional graphical and web-based products to its web site.

Participants may elect to exercise using their own timelines in order to achieve their particular objectives. For example, a particular EMO’s exercise control may choose to feed the NTWC 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 Appendix D, will facilitate this approach.

EMOs are encouraged to participate to ensure response plans are in order. Estimated tsunami arrival times to several U.S. and Canadian Atlantic locations are included in the NTWC messages. In addition, 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)

Table 1: Scenario Timeline

Tsunami generated by a magnitude 8.5 earthquake with epicenter located 125 miles northwest of Mayaguez, Puerto Rico at 19.2°N, 68.7°W occurring on March 26, 2019 at 1200UTC.

Date (UTC)	Time (UTC)	NTWC Message		
		#	Type	Dummy
03/26/2019	1200	Earthquake occurs		
03/26/2019	1205	01	TIS	Yes
03/26/2019	1234	02	Watch	No
03/26/2019	1302	03	Watch/Adv	No
03/26/2019	1332	04	Watch/Adv	No
03/26/2019	1405	05	Watch/Adv	No
03/26/2019	1431	06	Adv	No
03/26/2019	1501	07	Adv	No
03/26/2019	1531	08	Adv	No
03/26/2019	1600	09	Adv	No
03/26/2019	1631	10	Adv	No
03/26/2019	1703	11	Adv	No
03/26/2019	1731	12	Adv	No
03/26/2019	1800	13	Adv	No
03/26/2019	1830	14	Adv	No
03/26/2019	1900	15	Adv	No
03/26/2019	1931	16	Adv	No
03/26/2019	2000	17	Adv	No
03/26/2019	2030	18	Adv	No
03/26-27/2019	various	19-31	Adv	No
03/27/2019	0300	32	Can	No

NTWC Message Types:

- Watch Tsunami Watch
- Adv Tsunami Advisory
- Can Cancellation

Dummy:

Yes Dummy Issued
 No Dummy Not Issued

Table 2: Product Types

Product Types Issued for Dummy Message with Transmission Methods

Center	WMO ID	AWIPS ID	NWWS	GTS	EMWIN	AISR	Fax	Email
NTWC	WEXX20 PAAQ	TSUAT1	Yes	Yes	Yes	Yes	Yes	Yes

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

3.3 Actions in Case of a Real Event

In the case of a real event occurring during the exercise, NTWC will issue its normal message products for the event. Such messages will be given full priority and a decision will be made by the Center whether to issue the dummy message and to continue providing telephone support for the exercise. 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 "LANTEX19" and "Exercise."

3.4 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:

<u>Person</u>	<u>Telephone #</u>	<u>Email</u>
James Waddell, NTWC Rep.	907-745-4212	james.waddell@noaa.gov
James Gridley, NTWC Rep.	907-745-4212	james.gridley@noaa.gov
Christa von Hillebrandt, NWS CTWP Manager	787-833-8433	christa.vonh@noaa.gov
Walt Zaleski, NWS Southern Region	817-978-1100x106	walt.zaleski@noaa.gov
Charles McCreery, PTWC Director	808-725-6380	Charles.mccreery@noaa.gov
Jeff Waldstreicher, NWS Eastern Region	631-244-0131	jeff.waldstreicher@noaa.gov
Ed Fratto, NTHMP East Coast Rep.		efratto@nesec.org
John Parker, Environment Canada		john.k.parker@ec.gc.ca

3.5 Media Arrangements

One advantage in conducting exercises is that it provides a venue to promote awareness of the exercise topic. Many residents along the east and Gulf coasts may not realize 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. Appendix E contains a sample press release which can be adapted as necessary.

NOAA will issue a press release several days before the exercise describing the exercise and its purpose.

4 Post-Exercise Evaluation

All participating agencies are requested to provide brief feedback on the exercise. This feedback will assist NTHMP and NOAA in the development of subsequent exercises. Comments on the exercise, proposed improvements to the messages, or any other items related to the tsunami warning system can be addressed to the persons listed in section 3.4.

Appendix A. Example Table Top Exercise

Tabletop Exercise Development Steps

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, and 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, 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, 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 centers*
- *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
 - Provides necessary background information
 - Prepares 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.

LANTEX19

Appendix B. Scenario Description

The Alaska tsunami forecast model was used to simulate the tsunami generated by a hypothetical magnitude 8.5 earthquake located 125 miles northwest of Mayaguez, Puerto Rico at 19.2°N, 68.7°W.

Earthquake fault parameters are:

Depth: 22km
 Strike: 86°
 Dip: 20°
 Slip: 90°
 Rupture Area: 300 km x 100 km
 Moment: 5.4×10^{21} N m

The following graphics show some of the model output for a better understanding of the event. When using the forecast coastal amplitudes, note that the highest tsunami elevation reached on shore could be double that of the coastal forecast since these are determined at the coast.

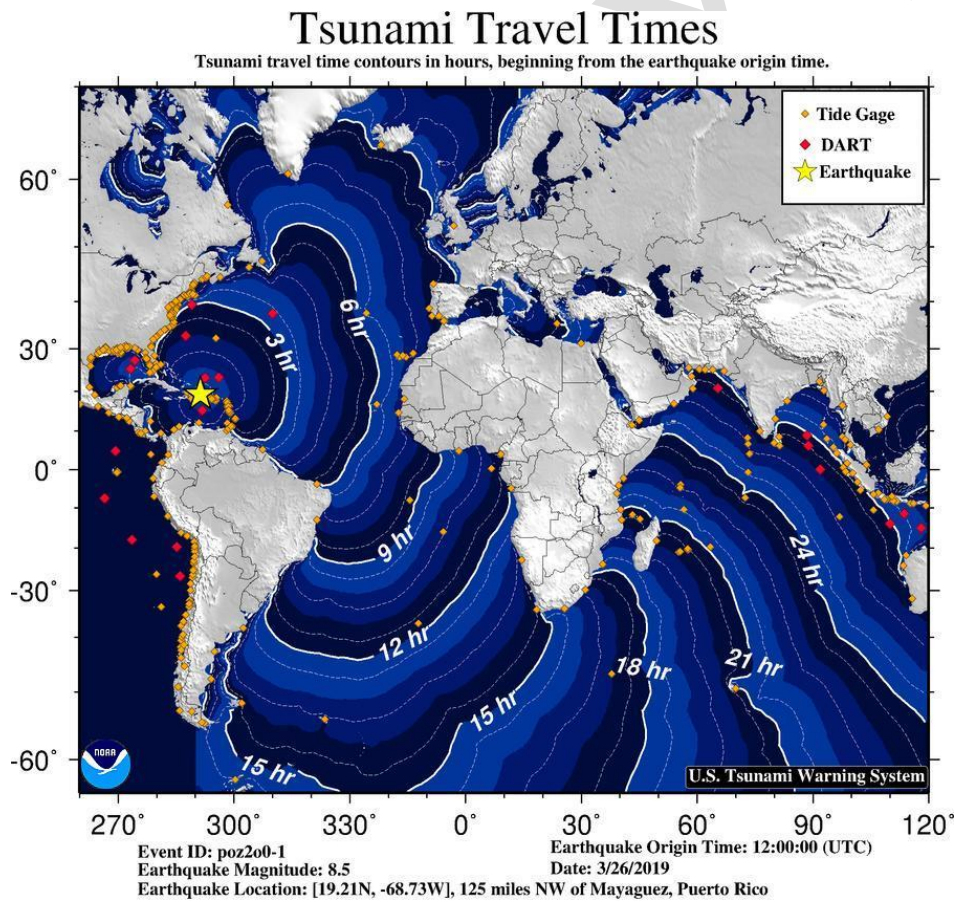
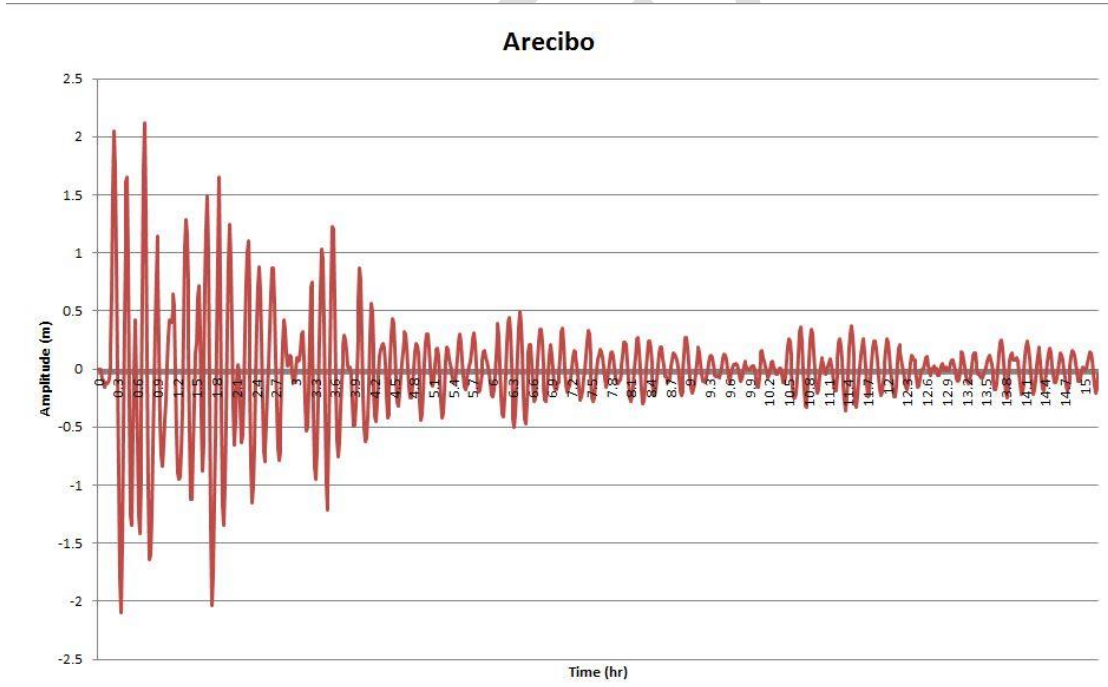
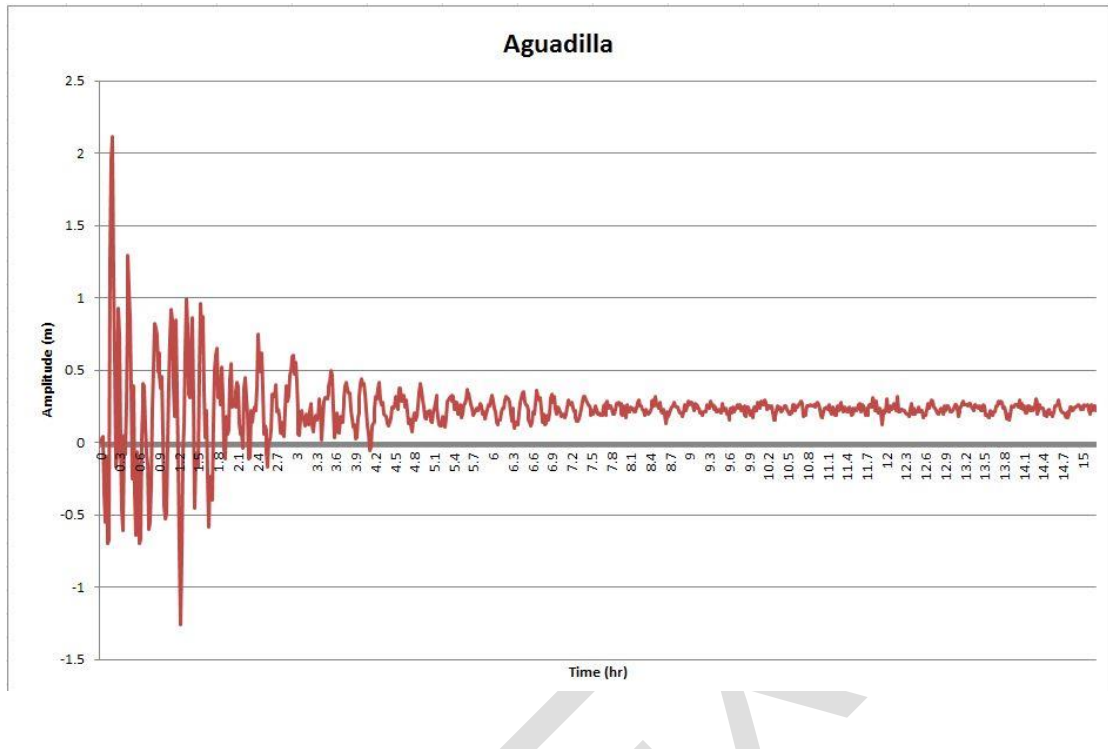
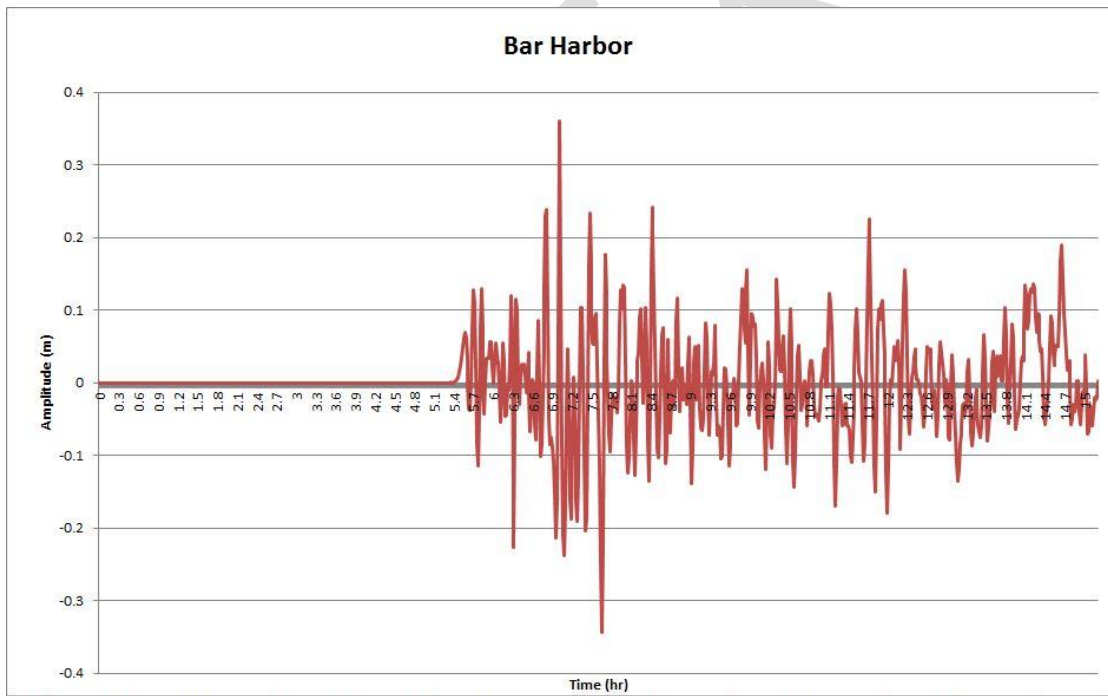
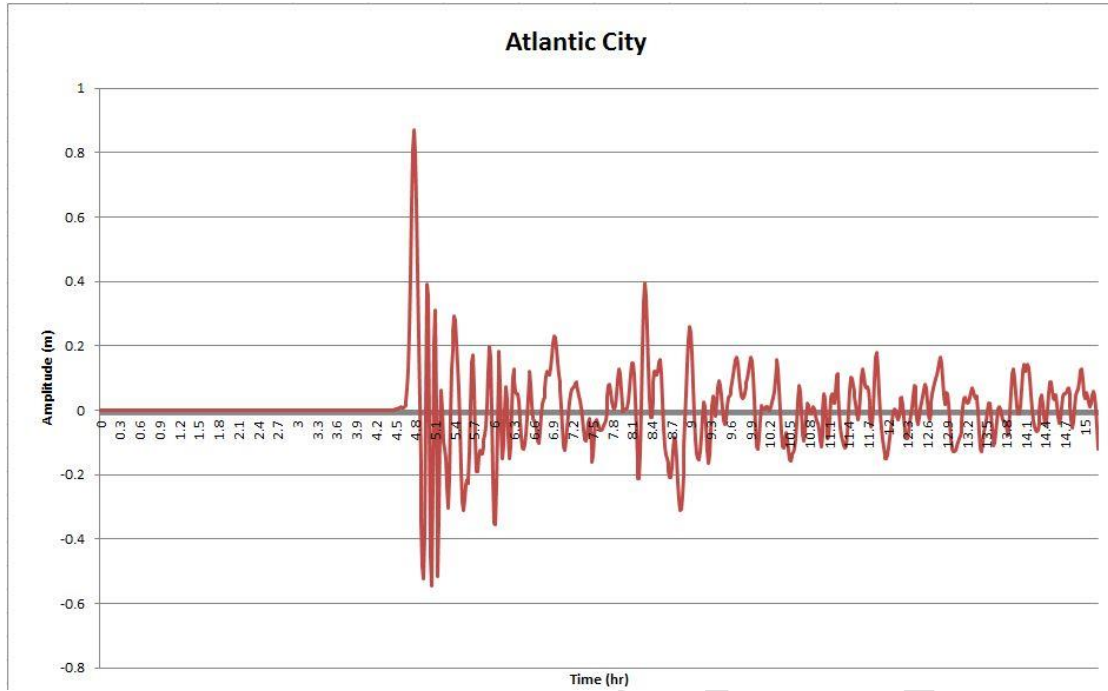
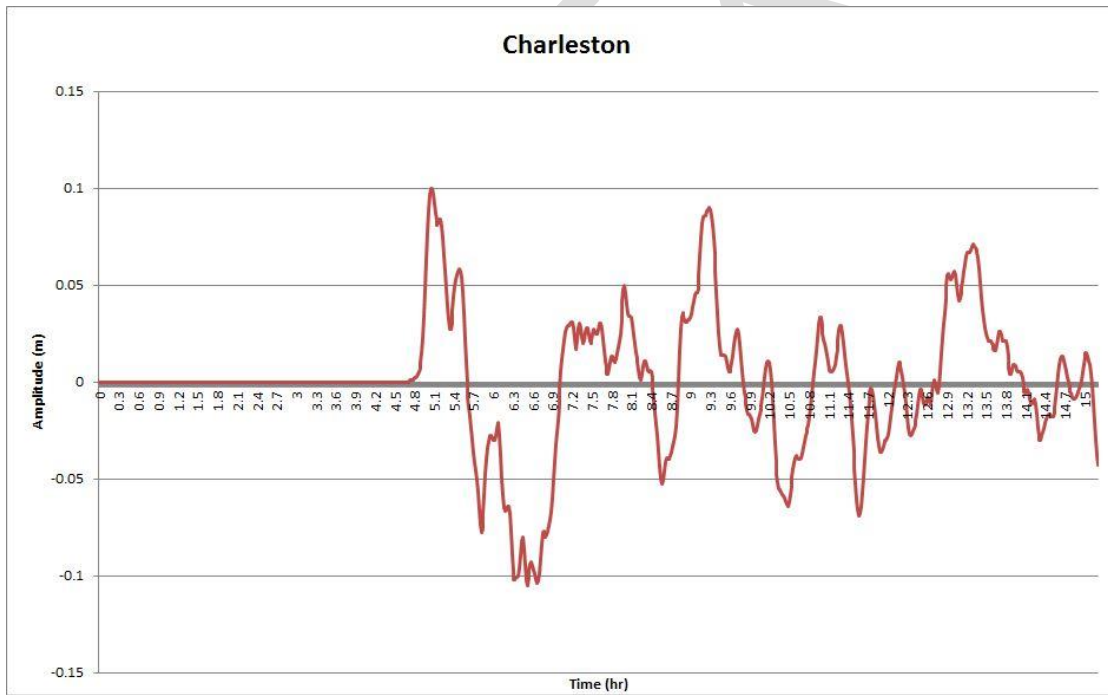
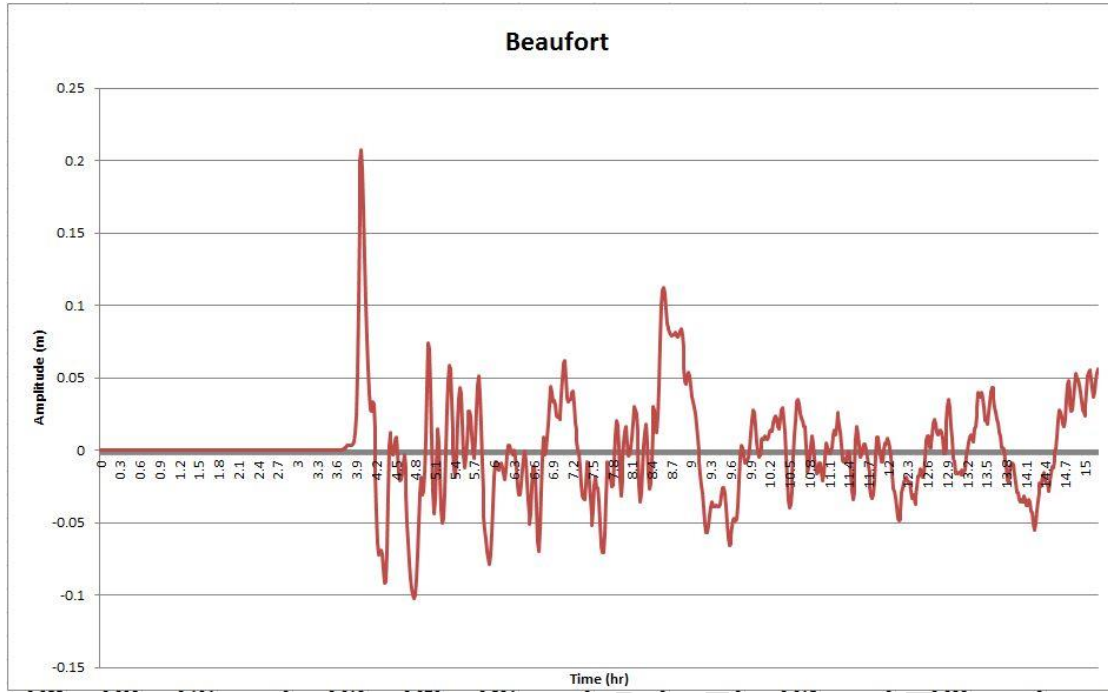


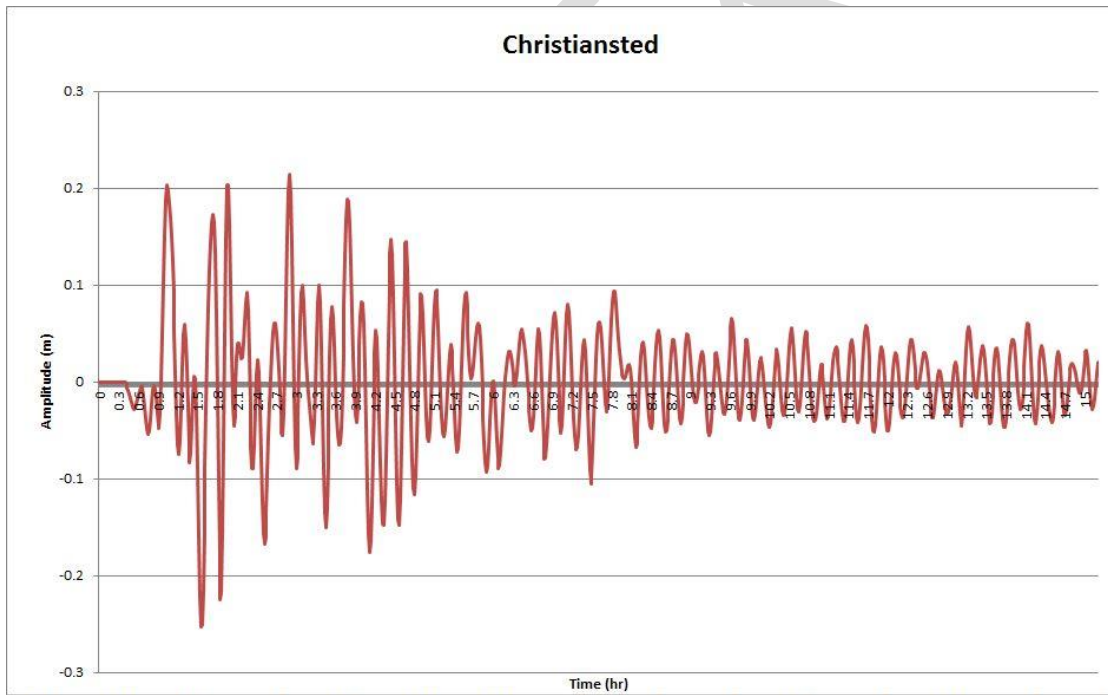
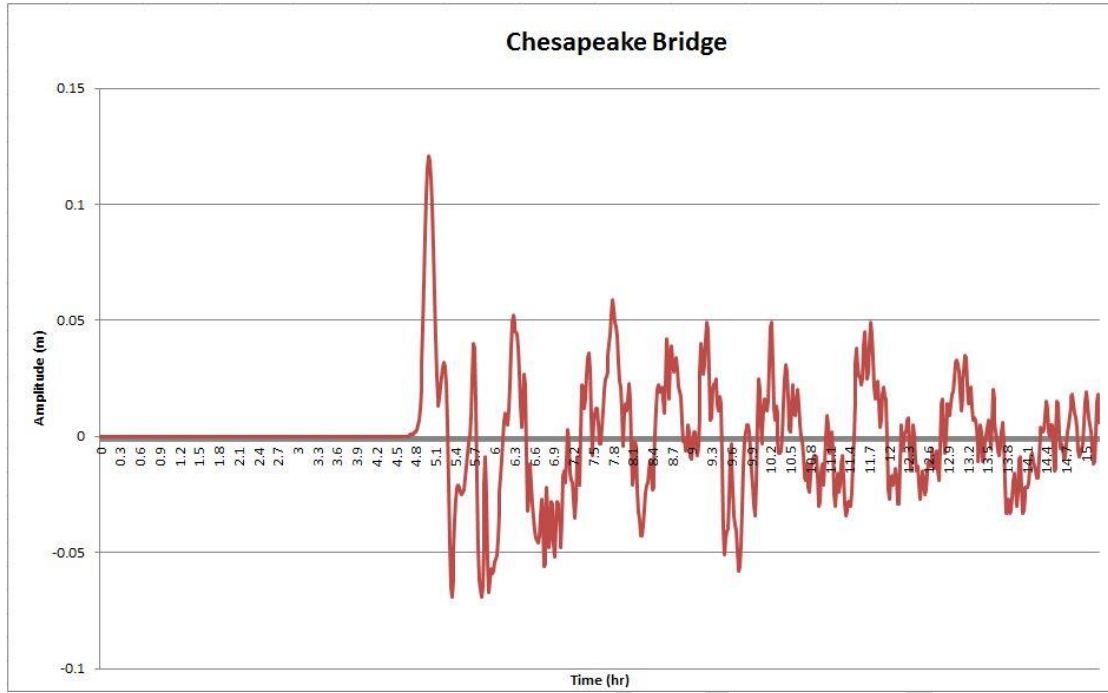
Figure B1: Tsunami travel time map for the LANTEX19 exercise.

LANTEX19 Marigrams

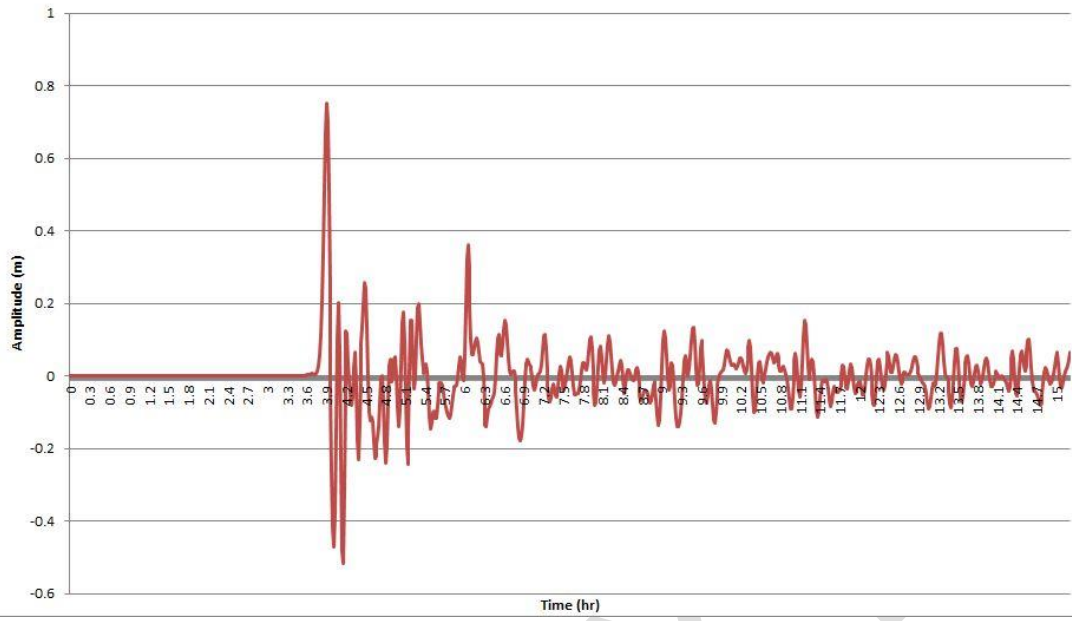




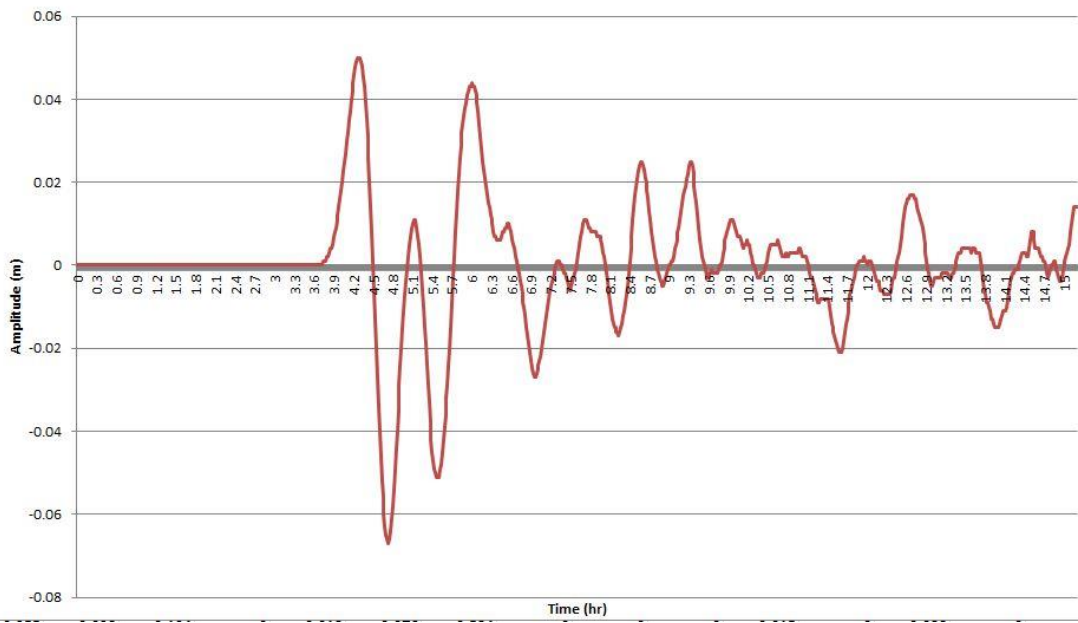


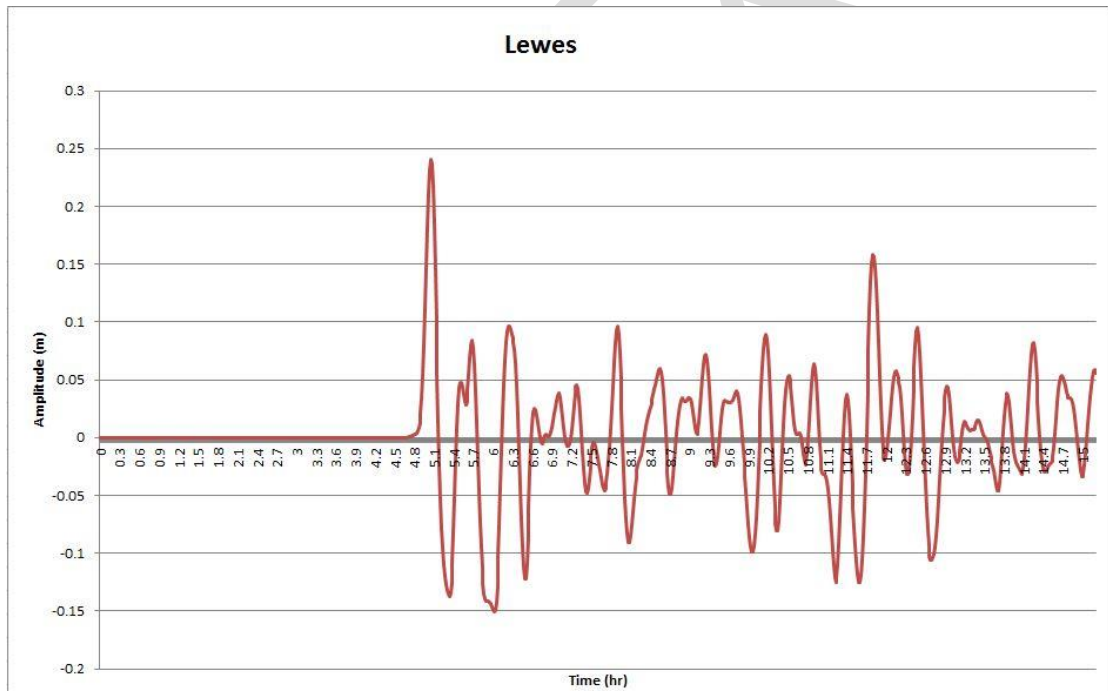
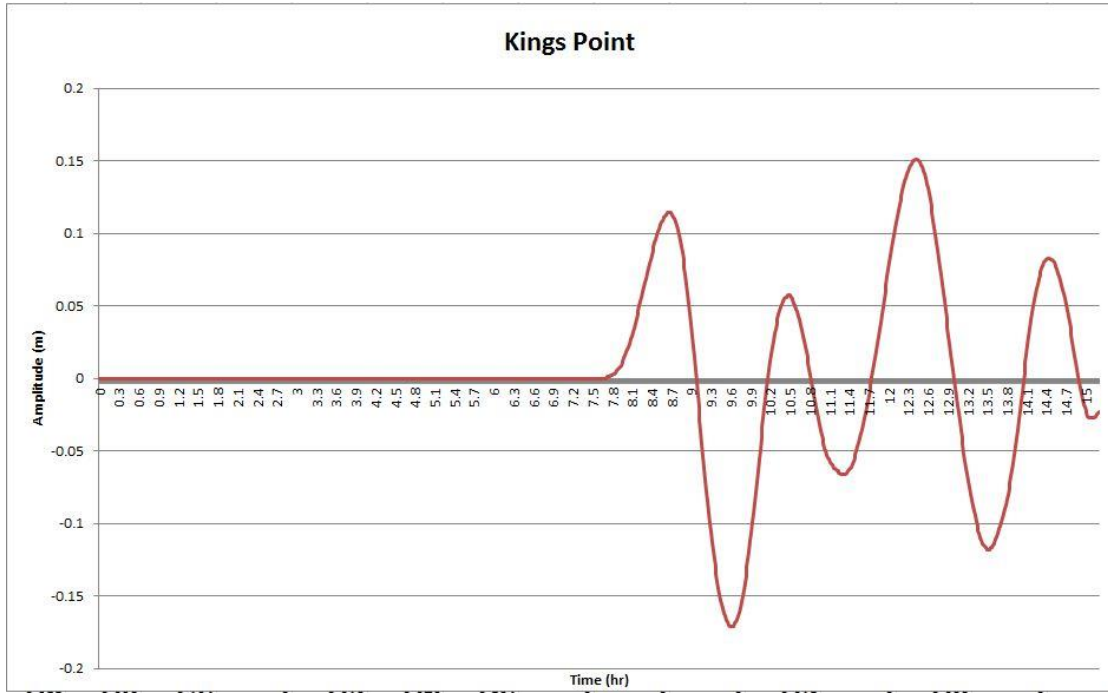


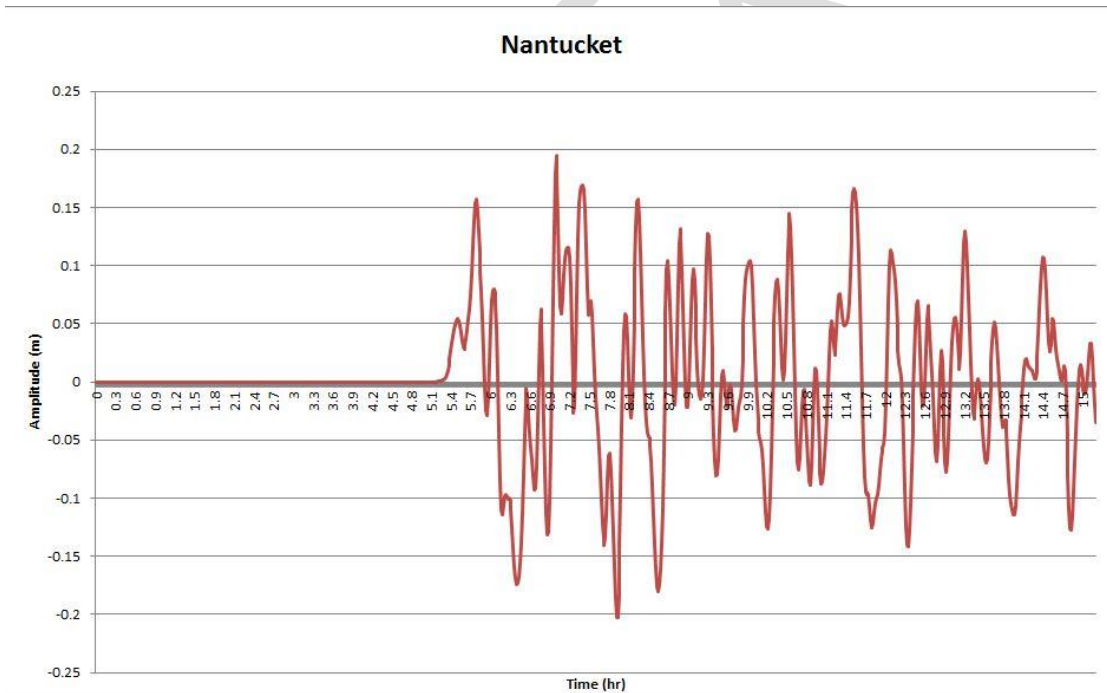
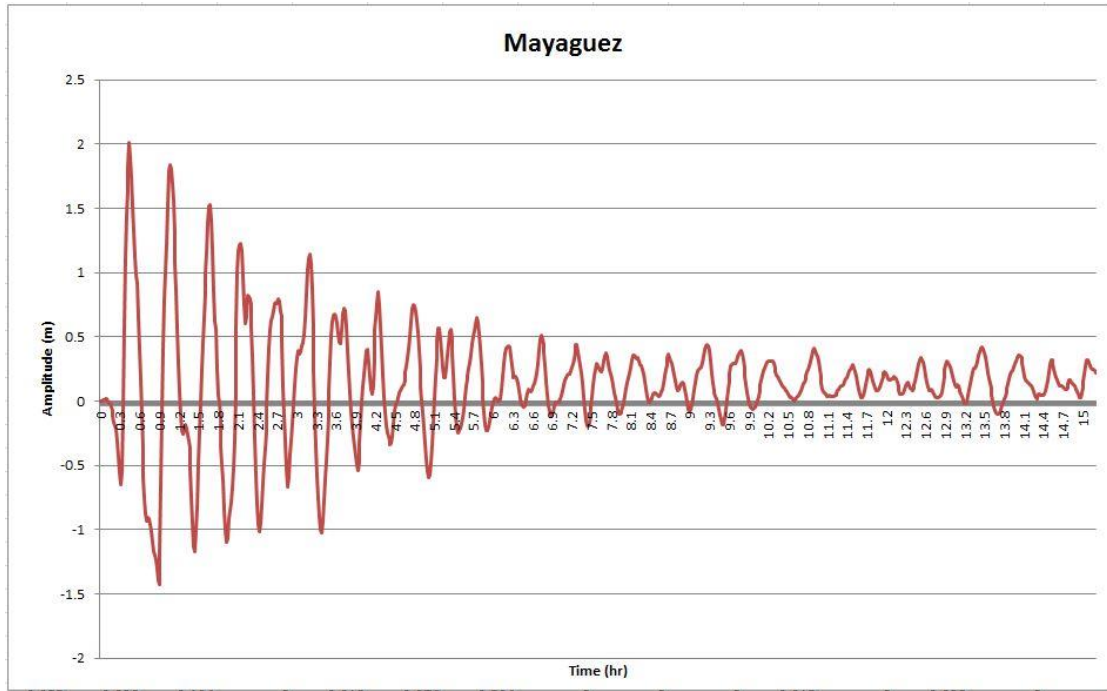
Duck

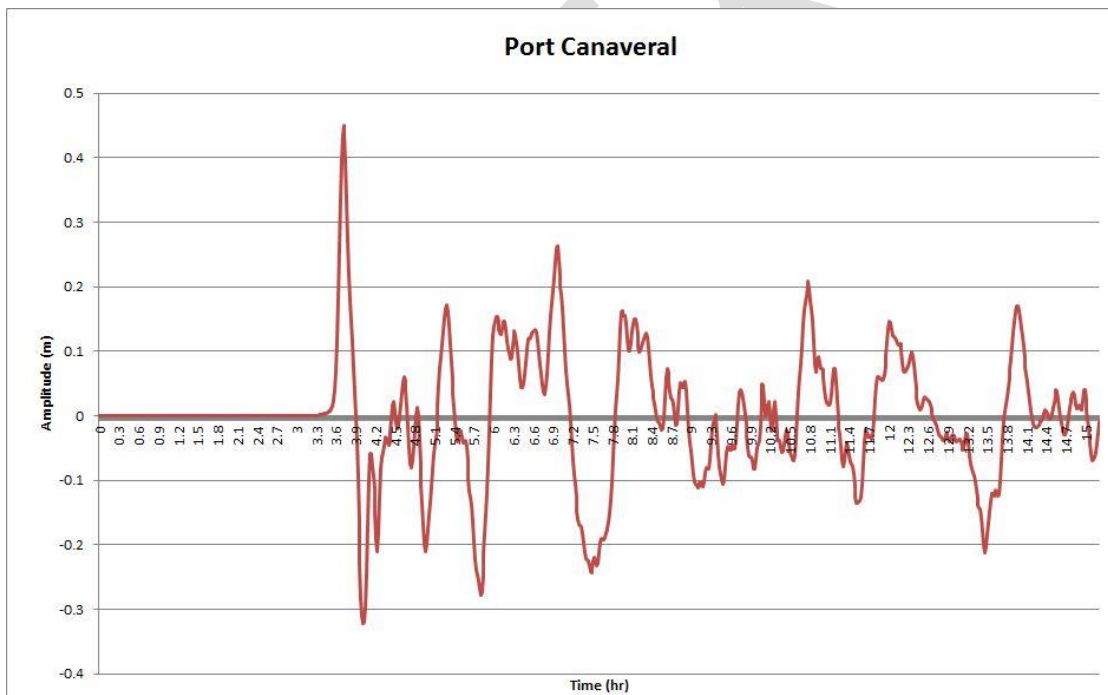
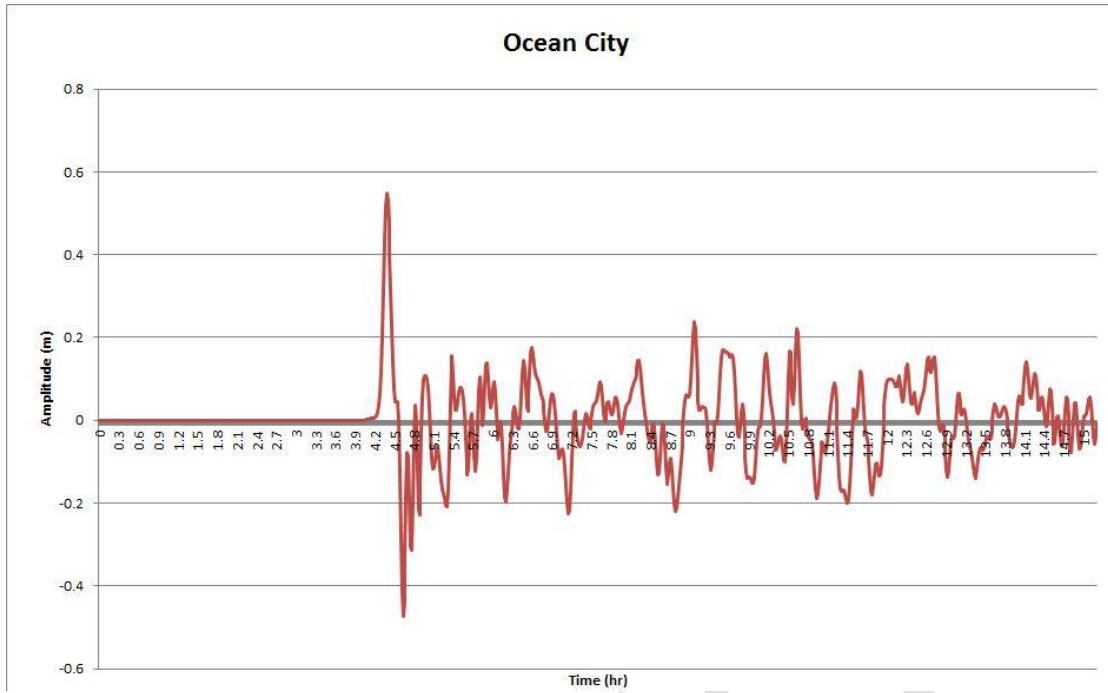


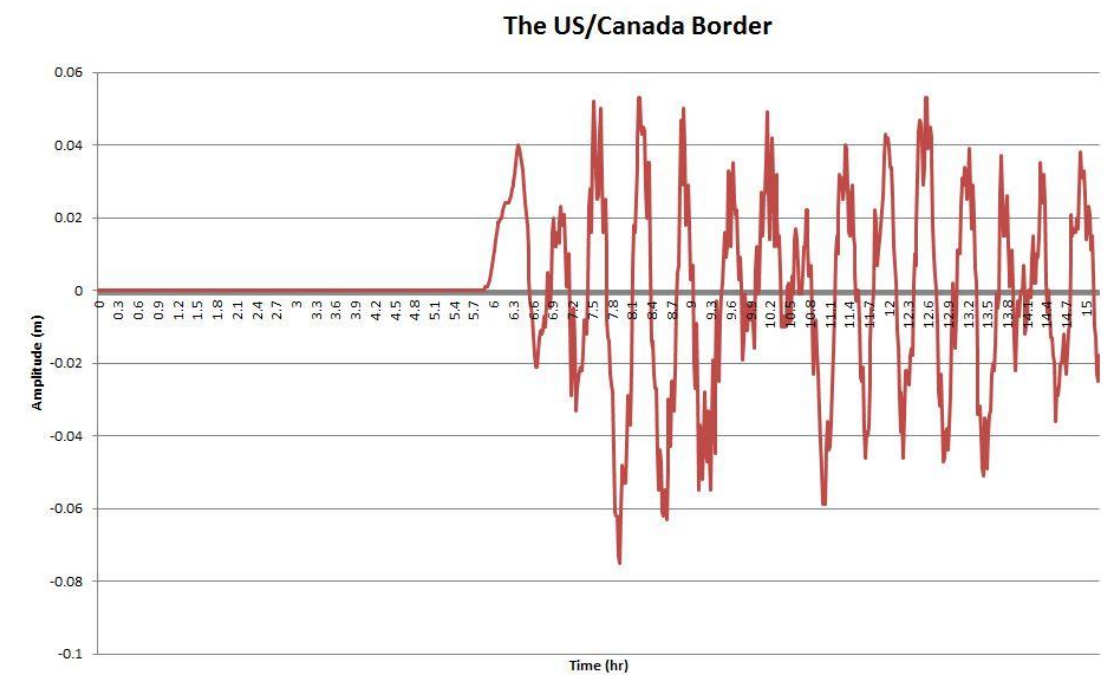
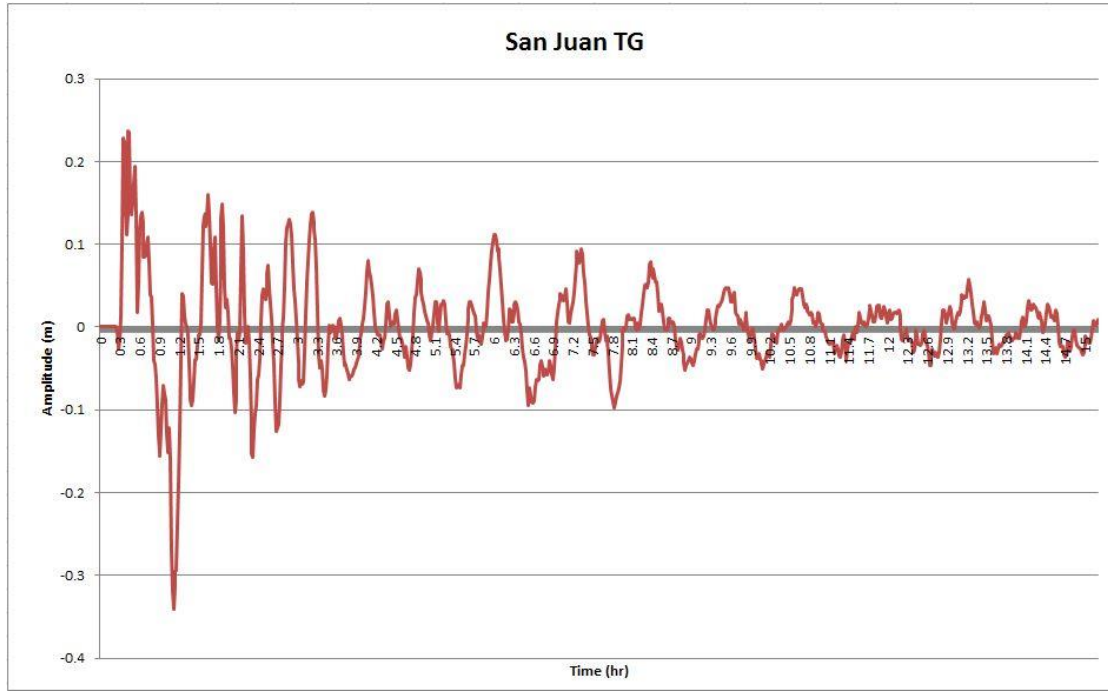
Key West



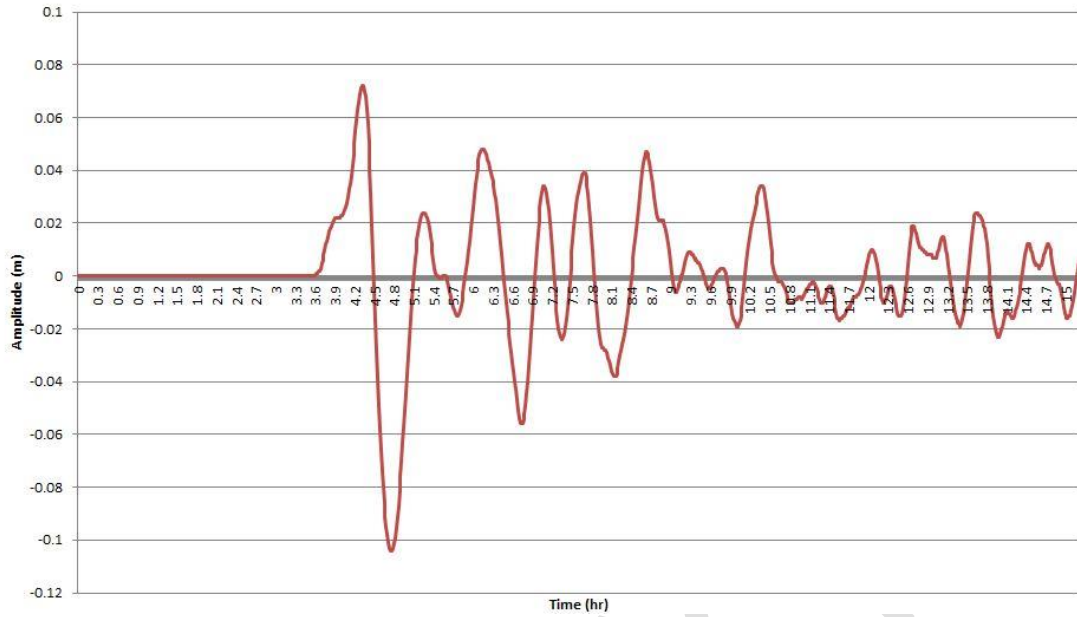




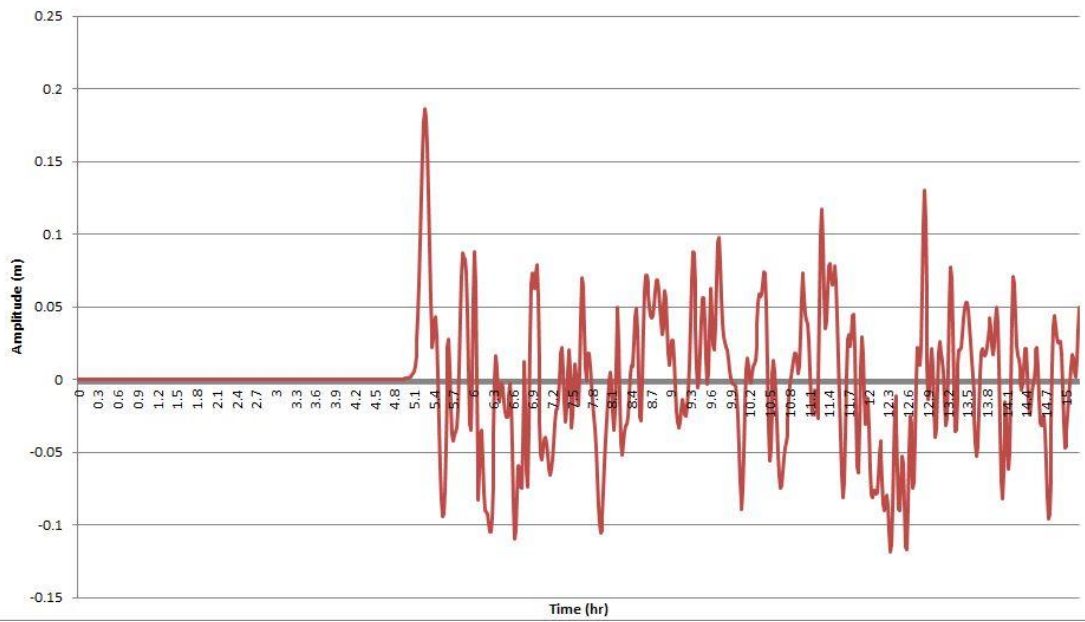


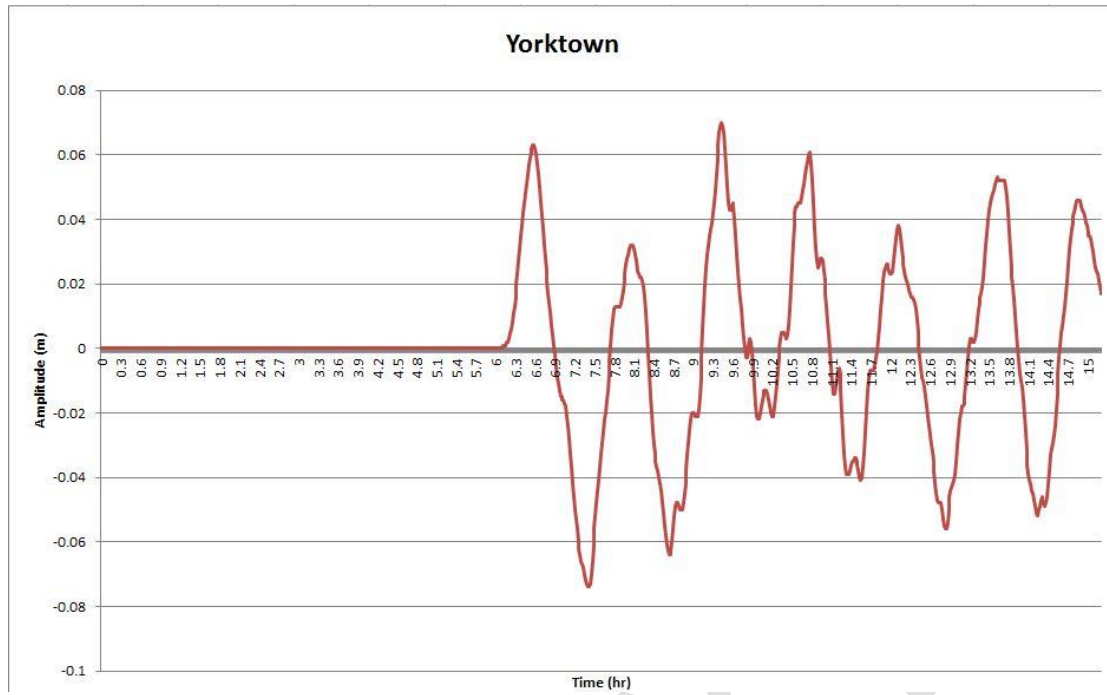


Vaca Key



Woods Hole





Maximum Observed DART Values during Exercise

DART Buoy	Lat	Long	Max Ht (m)	Max Ht (ft)
D41420	23.31N	67.64W	0.58	1.90
D41421	23.40N	63.90W	0.22	0.72
D41424	32.93N	72.47W	0.22	0.72
D44401	37.55N	49.99W	0.08	0.26
D44402	39.40N	70.94W	0.20	0.66
D42429	27.40N	85.67W	0.00	0.00
D42407	15.26N	68.23W	0.21	0.69
D42409	26.66N	85.80W	0.00	0.00

Appendix C. NTWC Dummy Message

WEXX30 PAAQ 261205
TSUATE

TEST...PUBLIC TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK
0805 AM EDT WED MAR 26 2019

... LANTEX19 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 LANTEX19 ATLANTIC TSUNAMI
EXERCISE. THIS WILL BE THE ONLY EXERCISE MESSAGE BROADCAST FROM
THE NATIONAL TSUNAMI WARNING CENTER. THE EXERCISE HANDBOOK IS
AVAILABLE AT THE WEB SITE 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.
\$\$

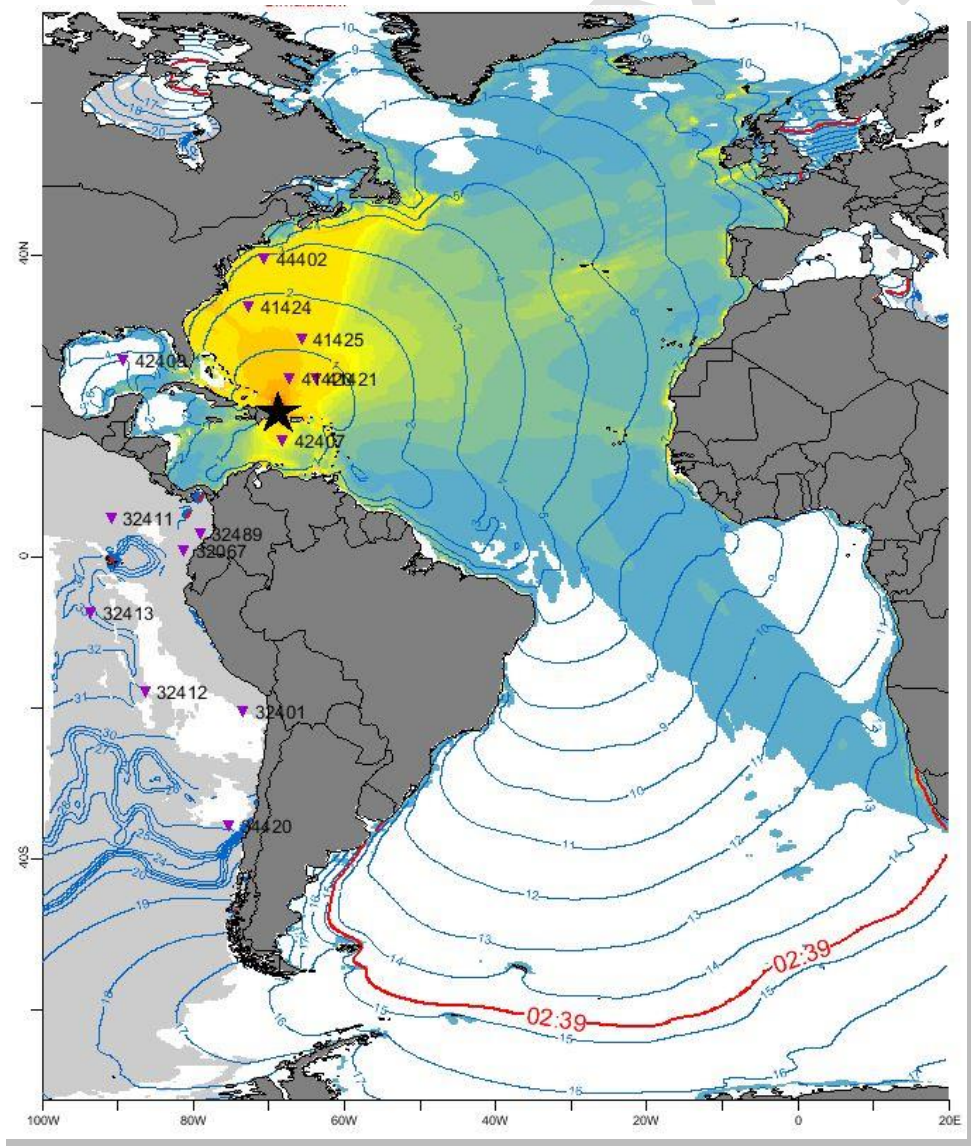


Figure C1. SIFT's propagation forecast map.

Appendix D. NTCW Exercise Messages

The following messages, created for the LANTEX19 tsunami exercise, are representative of the official standard products issued by the National Tsunami Warning Center during a large magnitude 8.5 earthquake and tsunami located 125 miles northwest of Mayaguez, Puerto Rico at 19.2°N, 68.7°W. During a real event, the Center would also issue graphical and html-based products to its web site and via RSS.

NTWC TIS #1

WEXX32 PAAQ 261205
TIBATE

Tsunami Information Statement Number 1
NWS National Tsunami Warning Center Palmer AK
805 AM AST Tue Mar 26 2019

...THIS IS A TSUNAMI INFORMATION STATEMENT FOR THE U.S. EAST
COAST,
GULF OF MEXICO STATES, AND EASTERN CANADA...

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

- * The following parameters are based on a rapid preliminary assessment of the earthquake and changes may occur.

- * Magnitude 8.0
- * Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
- * Coordinates 19.2 North 68.7 West
- * Depth 14 miles
- * Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * Messages will be issued hourly to keep you informed of the progress of this event.

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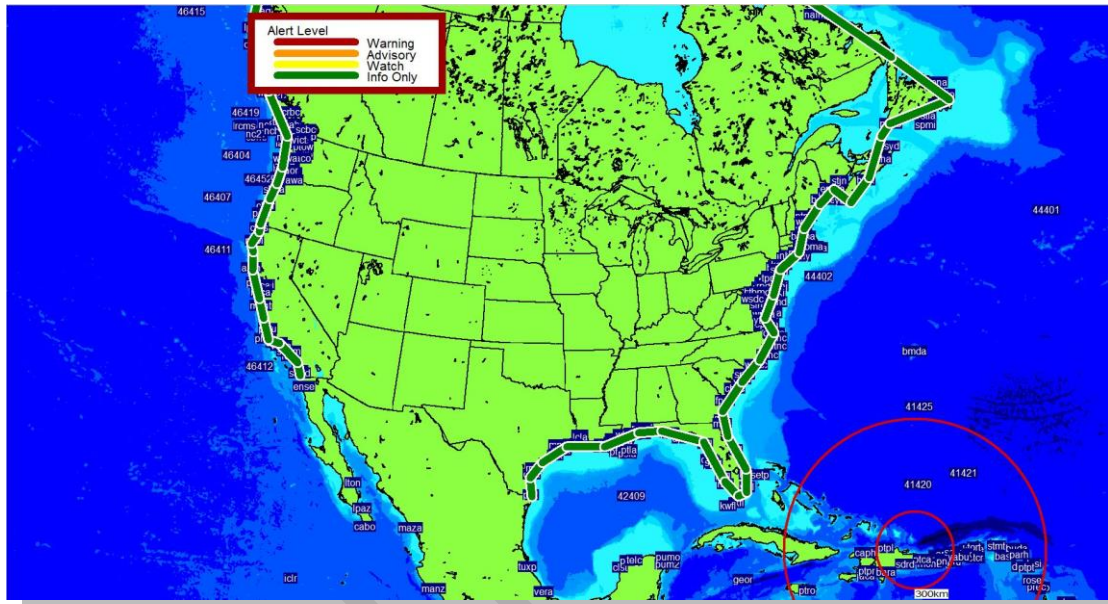


Figure D1: Smallscale map showing event location in the region.

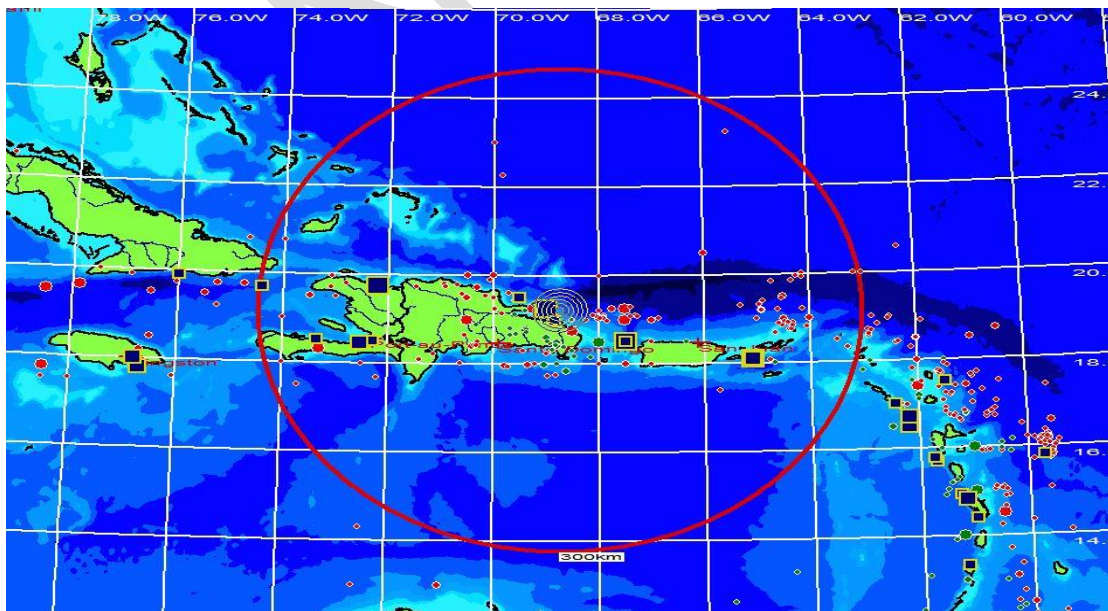


Figure D2: Largescale map showing event location.

NTWC Bulletin #2

LANTEX19 Handbook

WEXX30 PAAQ 261234
TSUATE

BULLETIN

Public Tsunami Message Number 2
NWS National Tsunami Warning Center Palmer AK
834 AM AST Tue Mar 26 2019

UPDATES

- * A tsunami has been confirmed and some impacts are expected
- * Updated observations
- * Revised alert areas
- * Revised magnitude

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

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

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

PRELIMINARY EARTHQUAKE PARAMETERS

- * The following parameters are based on a rapid preliminary assessment of the earthquake and changes may occur.
- * Magnitude 8.5
- * Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
- * Coordinates 19.2 North 68.7 West
- * Depth 14 miles
- * Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

FORECAST

LANTEX19 Handbook

SITE -----	START OF TSUNAMI -----				
* Florida					
Miami	1045	EDT	Mar	26	
Key West	1115	EDT	Mar	26	
Daytona	1200	EDT	Mar	26	
Melbourne Beach	1200	EDT	Mar	26	
Jacksonville Bea	1235	EDT	Mar	26	
* North Carolina					
Cape Hatteras	1055	EDT	Mar	26	
* Nova Scotia					
Lockeport	1325	ADT	Mar	26	
Scatarie Island	1425	ADT	Mar	26	
* New York					
Montauk	1230	EDT	Mar	26	
Manhattan	1355	EDT	Mar	26	
* Virginia					
Virginia Beach	1230	EDT	Mar	26	
* New Jersey					
Atlantic City	1235	EDT	Mar	26	
* South Carolina					
Myrtle Beach	1245	EDT	Mar	26	
Charleston	1255	EDT	Mar	26	
* Georgia					
Savannah	1300	EDT	Mar	26	
* Massachusetts					
Nantucket	1305	EDT	Mar	26	
Boston	1430	EDT	Mar	26	
* Newfoundland					
Saint Lawrence	1455	NDT	Mar	26	
Bonavista	1635	NDT	Mar	26	
* New Brunswick					
Grand Manan Isla	1440	ADT	Mar	26	
* Maine					
Portland	1410	EDT	Mar	26	
* Labrador					
Battle Harbour	1700	NDT	Mar	26	
Cape Makkovik	1635	ADT	Mar	26	

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

LANTEX19 Handbook

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0822 EDT Mar 26	0.5ft
Penuelas Puerto Rico	0818 EDT Mar 26	0.4ft

RECOMMENDED ACTIONS

If you are in a tsunami watch area;

- * Prepare to take action and stay alert for further information.

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This message will be updated within 30 minutes.

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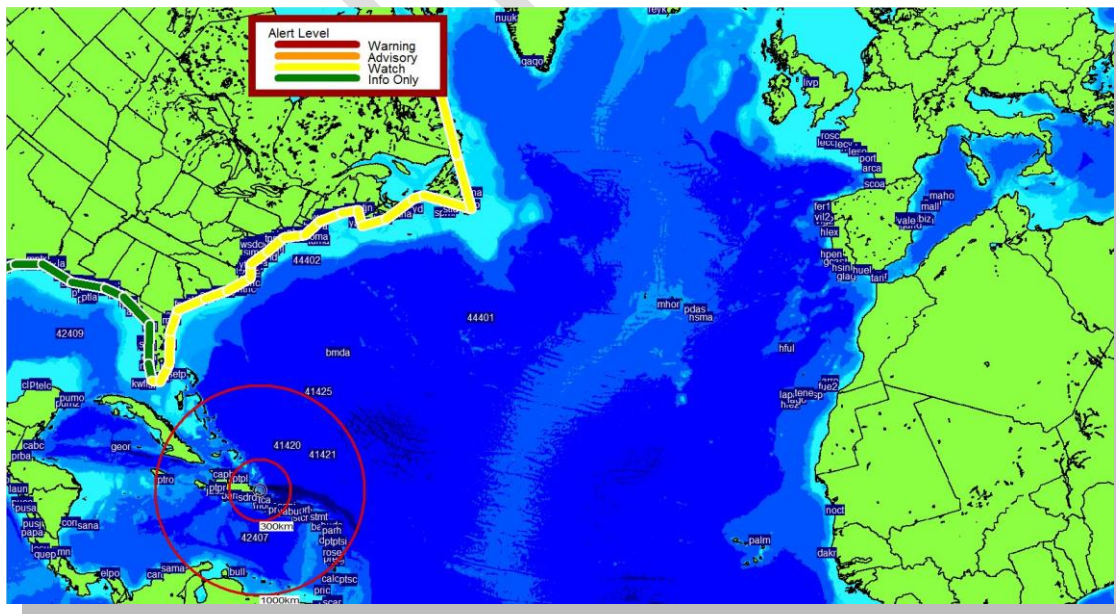


Figure D3: Watch areas after Bulletin 1.

NTWC Bulletin #3

WEXX30 PAAQ 261302
TSUATE

LANTEX19 Handbook

BULLETIN

Public Tsunami Message Number 3
NWS National Tsunami Warning Center Palmer AK
902 AM AST Tue Mar 26 2019

UPDATES

- * Updated observations
- * Revised alert areas

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

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

Tsunami Advisory in Effect for;

- * The coastal areas of Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware and New Jersey from Jupiter Inlet, Florida to Sandy Hook, New Jersey

Tsunami Watch in Effect for;

- * The coastal areas of New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia, Newfoundland and Labrador from Sandy Hook, New Jersey to Cape Chidley, Labrador

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----

* Florida

Miami	1045	EDT Mar 26	
Key West	1115	EDT Mar 26	
Daytona	1200	EDT Mar 26	
Melbourne Beach	1200	EDT Mar 26	
Jacksonville Bea	1235	EDT Mar 26	

* North Carolina

Cape Hatteras	1055	EDT Mar 26	
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* Nova Scotia
 Lockeport 1325 ADT Mar 26
 Scatarie Island 1425 ADT Mar 26

* New York
 Montauk 1230 EDT Mar 26
 Manhattan 1355 EDT Mar 26

* Virginia
 Virginia Beach 1230 EDT Mar 26

* New Jersey
 Atlantic City 1235 EDT Mar 26

* South Carolina
 Myrtle Beach 1245 EDT Mar 26
 Charleston 1255 EDT Mar 26

* Georgia
 Savannah 1300 EDT Mar 26

* Massachusetts
 Nantucket 1305 EDT Mar 26
 Boston 1430 EDT Mar 26

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0853 EDT Mar 26	1.8ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Vieques Is. north PR	0858 EDT Mar 26	2.4ft
Yabucoa Puerto Rico	0853 EDT Mar 26	1.1ft
Fajardo Puerto Rico	0841 EDT Mar 26	1.9ft

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Culebra Puerto Rico	0847	EDT Mar 26	1.3ft
Lameshur Bay VI	0853	EDT Mar 26	0.2ft

PRELIMINARY EARTHQUAKE PARAMETERS

* The following parameters are based on a rapid preliminary assessment of the earthquake and changes may occur.

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS - UPDATED

Actions to protect human life and property will vary within tsunami advisory areas.

If you are in a tsunami advisory area;

- * Move out of the water, off the beach, and away from harbors, marinas, breakwaters, bays and inlets.
- * Be alert to and follow instructions from your local emergency officials because they may have more detailed or specific information for your location.
- * If you feel a strong earthquake or extended ground rolling take immediate protective actions such as moving inland and/or uphill preferably by foot.
- * Boat operators,
 - * Where time and conditions permit, move your boat out to sea to a depth of at least 180 feet.
 - * If at sea avoid entering shallow water, harbors, marinas, bays, and inlets to avoid floating and submerged debris and strong currents.
- * Do not go to the shore to observe the tsunami.
- * Do not return to the coast until local emergency officials indicate it is safe to do so.

If you are in a tsunami watch area;

- * Prepare to take action and stay alert for further information.

LANTEX19 Handbook

IMPACTS

Impacts will vary at different locations in the advisory areas.

If you are in a tsunami advisory area;

- * A tsunami with strong waves and currents is possible.
- * Waves and currents can drown or injure people who are in the water.
- * Currents at beaches and in harbors, marinas, bays, and inlets may be especially dangerous.
- * Some impacts may continue for many hours to days after arrival of the first wave.
- * The first wave may not be the largest so later waves may be larger.
- * Each wave may last 5 to 45 minutes as a wave encroaches and recedes.
- * Coasts facing all directions are threatened because the waves can wrap around islands and headlands and into bays.
- * Strong shaking or rolling of the ground indicates an earthquake has occurred and a tsunami may be imminent.
- * A rapidly receding or receded shoreline, unusual waves and sounds, and strong currents are signs of a tsunami.
- * The tsunami may appear as water moving rapidly out to sea, a gentle rising tide like flood with no breaking wave, as a series of breaking waves, or a frothy wall of water.

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This message will be updated within 30 minutes.

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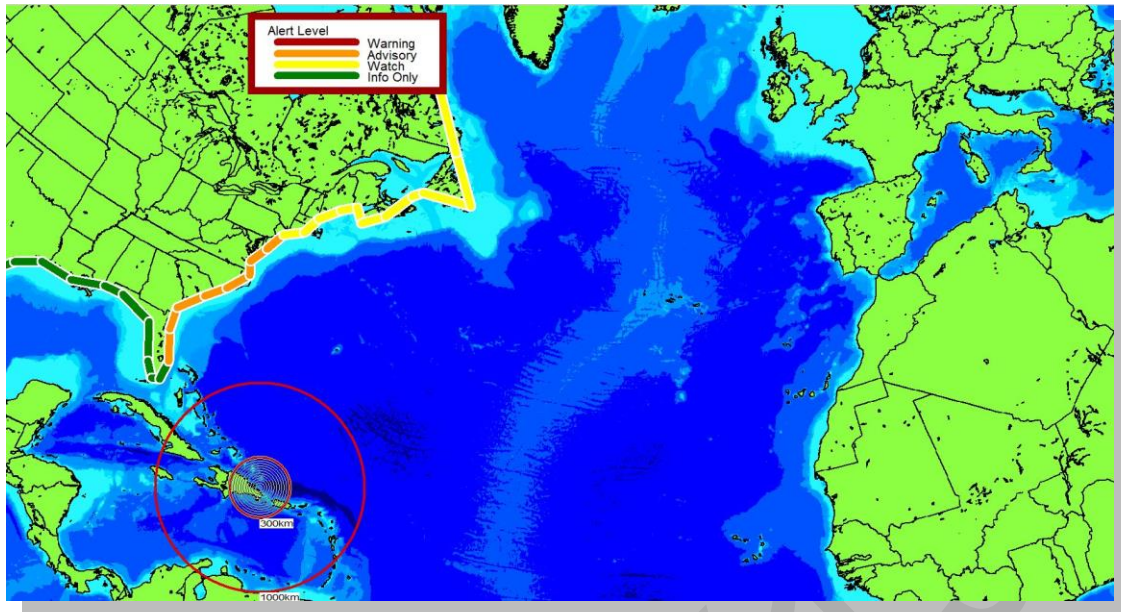


Figure D4: Watch/Advisory areas after Bulletin 3.

NTWC Conference Call #1

NOAK78 PAAQ 261315
ADAAT1

...TSUNAMI TELECONFERENCE IS SCHEDULED...

A TELECONFERENCE CONCERNING THE ONGOING TSUNAMI IS SCHEDULED FOR

- * Atlantic and Gulf of Mexico coastal Weather Forecast Offices
- * Atlantic and Gulf of Mexico coastal state warning points
- * Atlantic and Gulf of Mexico FEMA Regional Offices
- * Atlantic and Gulf of Mexico US Coast Guard District Offices

The teleconference will be led by the National Tsunami Warning Center.

THE TELECONFERENCE WILL BE HELD AT

- * 1000 EDT MAR 26 2019
- * 1000 AST MAR 26 2019
- * 1400 UTC MAR 26 2019

CALL 1-877-708-6816 PASSCODE 2763065#

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NTWC Bulletin #4

WEXX30 PAAQ 261332
TSUATE

LANTEX19 Handbook

BULLETIN

Public Tsunami Message Number 4
NWS National Tsunami Warning Center Palmer AK
932 AM AST Tue Mar 26 2019

UPDATES

- * Updated observations

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

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

Tsunami Advisory in Effect for;

- * The coastal areas of Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware and New Jersey from Jupiter Inlet, Florida to Sandy Hook, New Jersey

Tsunami Watch in Effect for;

- * The coastal areas of New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia, Newfoundland and Labrador from Sandy Hook, New Jersey to Cape Chidley, Labrador

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----
* Florida			
Miami	1045 EDT Mar 26		
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.2- 2.3 ft
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		less than 1ft

* North Carolina			
Cape Hatteras	1055 EDT Mar 26	15 hrs	1.1- 2.0 ft

- * Nova Scotia

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Lockeport	1325	ADT	Mar 26		
Scatarie Island	1425	ADT	Mar 26		
* New York					
Montauk	1230	EDT	Mar 26		
Manhattan	1355	EDT	Mar 26		
* Virginia					
Virginia Beach	1230	EDT	Mar 26		
* New Jersey					
Atlantic City	1235	EDT	Mar 26	24 hrs	1.9- 3.6 ft
* South Carolina					
Myrtle Beach	1245	EDT	Mar 26	15 hrs	1.0- 1.9 ft
Charleston	1255	EDT	Mar 26		less than 1ft
* Georgia					
Savannah	1300	EDT	Mar 26		less than 1ft
* Massachusetts					
Nantucket	1305	EDT	Mar 26		
Boston	1430	EDT	Mar 26		
* Newfoundland					
Saint Lawrence	1455	NDT	Mar 26		
Bonavista	1635	NDT	Mar 26		
* New Brunswick					
Grand Manan Isla	1440	ADT	Mar 26		
* Maine					
Portland	1410	EDT	Mar 26		
* Labrador					
Battle Harbour	1700	NDT	Mar 26		
Cape Makkovik	1635	ADT	Mar 26		

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0853 EDT Mar 26	1.8ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	0902 EDT Mar 26	0.7ft
Vieques Is. north PR	0858 EDT Mar 26	2.4ft
Yabucoa Puerto Rico	0853 EDT Mar 26	1.1ft
Fajardo Puerto Rico	0841 EDT Mar 26	1.9ft
Culebra Puerto Rico	0847 EDT Mar 26	1.3ft

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Lameshur Bay VI	0908	EDT Mar 26	1.5ft
Charlotte Amalie VI	0914	EDT Mar 26	1.5ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS - UPDATED

Actions to protect human life and property will vary within tsunami advisory areas.

If you are in a tsunami advisory area;

- * Move out of the water, off the beach, and away from harbors, marinas, breakwaters, bays and inlets.
- * Be alert to and follow instructions from your local emergency officials because they may have more detailed or specific information for your location.
- * If you feel a strong earthquake or extended ground rolling take immediate protective actions such as moving inland and/or uphill preferably by foot.
- * Boat operators,
 - * Where time and conditions permit, move your boat out to sea to a depth of at least 180 feet.
 - * If at sea avoid entering shallow water, harbors, marinas, bays, and inlets to avoid floating and submerged debris and strong currents.
- * Do not go to the shore to observe the tsunami.
- * Do not return to the coast until local emergency officials indicate it is safe to do so.

If you are in a tsunami watch area;

- * Prepare to take action and stay alert for further information.

IMPACTS

Impacts will vary at different locations in the advisory

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areas.

If you are in a tsunami advisory area;

- * A tsunami with strong waves and currents is possible.
- * Waves and currents can drown or injure people who are in the water.
- * Currents at beaches and in harbors, marinas, bays, and inlets may be especially dangerous.
- * Some impacts may continue for many hours to days after arrival of the first wave.
- * The first wave may not be the largest so later waves may be larger.
- * Each wave may last 5 to 45 minutes as a wave encroaches and recedes.
- * Coasts facing all directions are threatened because the waves can wrap around islands and headlands and into bays.
- * Strong shaking or rolling of the ground indicates an earthquake has occurred and a tsunami may be imminent.
- * A rapidly receding or receded shoreline, unusual waves and sounds, and strong currents are signs of a tsunami.
- * The tsunami may appear as water moving rapidly out to sea, a gentle rising tide like flood with no breaking wave, as a series of breaking waves, or a frothy wall of water.

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This message will be updated within 30 minutes.

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NTWC Bulletin #5

WEXX30 PAAQ 261405
TSUATE

BULLETIN
Public Tsunami Message Number 5
NWS National Tsunami Warning Center Palmer AK
1005 AM AST Tue Mar 26 2019

UPDATES

LANTEX19 Handbook

* Updated observations

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

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

Tsunami Advisory in Effect for;

* The coastal areas of Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware and New Jersey from Jupiter Inlet, Florida to Sandy Hook, New Jersey

Tsunami Watch in Effect for;

* The coastal areas of New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia, Newfoundland and Labrador from Sandy Hook, New Jersey to Cape Chidley, Labrador

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

* Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
* Florida			
Miami	1045 EDT Mar 26		
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.2- 2.3 ft
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		less than 1ft
* North Carolina			
Cape Hatteras	1055 EDT Mar 26	15 hrs	1.1- 2.0 ft
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		

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* Virginia
Virginia Beach 1230 EDT Mar 26

* New Jersey
Atlantic City 1235 EDT Mar 26 24 hrs 1.9- 3.6 ft

* South Carolina
Myrtle Beach 1245 EDT Mar 26 15 hrs 1.0- 1.9 ft
Charleston 1255 EDT Mar 26 less than 1ft

* Georgia
Savannah 1300 EDT Mar 26 less than 1ft

* Massachusetts
Nantucket 1305 EDT Mar 26
Boston 1430 EDT Mar 26

* Newfoundland
Saint Lawrence 1455 NDT Mar 26
Bonavista 1635 NDT Mar 26

* New Brunswick
Grand Manan Isla 1440 ADT Mar 26

* Maine
Portland 1410 EDT Mar 26

* Labrador
Battle Harbour 1700 NDT Mar 26
Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	0902 EDT Mar 26	0.7ft
Vieques Is. north PR	0858 EDT Mar 26	2.4ft
Yabucoa Puerto Rico	0937 EDT Mar 26	2.1ft
Fajardo Puerto Rico	0841 EDT Mar 26	1.9ft
Culebra Puerto Rico	0847 EDT Mar 26	1.3ft
Lameshur Bay VI	0954 EDT Mar 26	2.1ft
Charlotte Amalie VI	0958 EDT Mar 26	2.5ft
Bermuda Bermuda	1000 EDT Mar 26	0.4ft

PRELIMINARY EARTHQUAKE PARAMETERS

LANTEX19 Handbook

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 4 for recommended actions.

IMPACTS

* See message number 4 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.
* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
* This message will be updated within 30 minutes.

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NTWC Bulletin #6

WEXX30 PAAQ 261431
TSUATE

BULLETIN
Public Tsunami Message Number 6
NWS National Tsunami Warning Center Palmer AK
1031 AM AST Tue Mar 26 2019

UPDATES

* Revised alert areas

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

Tsunami Advisory in Effect for;

* The coastal areas of Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware and New Jersey from Jupiter Inlet, Florida to Sandy Hook, New Jersey

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* The coastal areas of New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia and Newfoundland from Sandy Hook, New Jersey to Strait of Belle Isle, Newfoundland

Alerts in the following areas have been canceled because additional information and analysis have better defined the threat.

* The Tsunami Watch is canceled for the coastal areas of Newfoundland and Labrador from Strait of Belle Isle, Newfoundland to Cape Chidley, Labrador

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

* Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----
* Florida			
Miami	1045 EDT Mar 26		
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.3- 2.3 ft
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		less than 1ft
* North Carolina			
Cape Hatteras	1055 EDT Mar 26	15 hrs	1.1- 2.0 ft
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	1.9- 3.6 ft
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 ft
Charleston	1255 EDT Mar 26		less than 1ft

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* Georgia
 Savannah 1300 EDT Mar 26 less than 1ft

* Massachusetts
 Nantucket 1305 EDT Mar 26
 Boston 1430 EDT Mar 26

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	0902 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	0841 EDT Mar 26	1.9ft
Culebra Puerto Rico	0847 EDT Mar 26	1.3ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	0958 EDT Mar 26	2.5ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5

* Origin Time 0800 EDT Mar 26 2019
 0800 AST Mar 26 2019
 0700 CDT Mar 26 2019
 1200 UTC Mar 26 2019

* Coordinates 19.2 North 68.7 West

* Depth 14 miles

* Location 125 miles NW of Mayaguez, Puerto Rico
 180 miles NW of San Juan, Puerto Rico

LANTEX19 Handbook

RECOMMENDED ACTIONS - UPDATED

Actions to protect human life and property will vary within tsunami advisory areas.

If you are in a tsunami advisory area;

- * Move out of the water, off the beach, and away from harbors, marinas, breakwaters, bays and inlets.
- * Be alert to and follow instructions from your local emergency officials because they may have more detailed or specific information for your location.
- * If you feel a strong earthquake or extended ground rolling take immediate protective actions such as moving inland and/or uphill preferably by foot.
- * Boat operators,
 - * Where time and conditions permit, move your boat out to sea to a depth of at least 180 feet.
 - * If at sea avoid entering shallow water, harbors, marinas, bays, and inlets to avoid floating and submerged debris and strong currents.
- * Do not go to the shore to observe the tsunami.
- * Do not return to the coast until local emergency officials indicate it is safe to do so.

IMPACTS

Impacts will vary at different locations in the advisory areas.

If you are in a tsunami advisory area;

- * A tsunami with strong waves and currents is possible.
- * Waves and currents can drown or injure people who are in the water.
- * Currents at beaches and in harbors, marinas, bays, and inlets may be especially dangerous.
- * Some impacts may continue for many hours to days after arrival of the first wave.
- * The first wave may not be the largest so later waves may be larger.
- * Each wave may last 5 to 45 minutes as a wave encroaches and recedes.

LANTEX19 Handbook

- * Coasts facing all directions are threatened because the waves can wrap around islands and headlands and into bays.
- * Strong shaking or rolling of the ground indicates an earthquake has occurred and a tsunami may be imminent.
- * A rapidly receding or receded shoreline, unusual waves and sounds, and strong currents are signs of a tsunami.
- * The tsunami may appear as water moving rapidly out to sea, a gentle rising tide like flood with no breaking wave, as a series of breaking waves, or a frothy wall of water.

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This message will be updated within 30 minutes.

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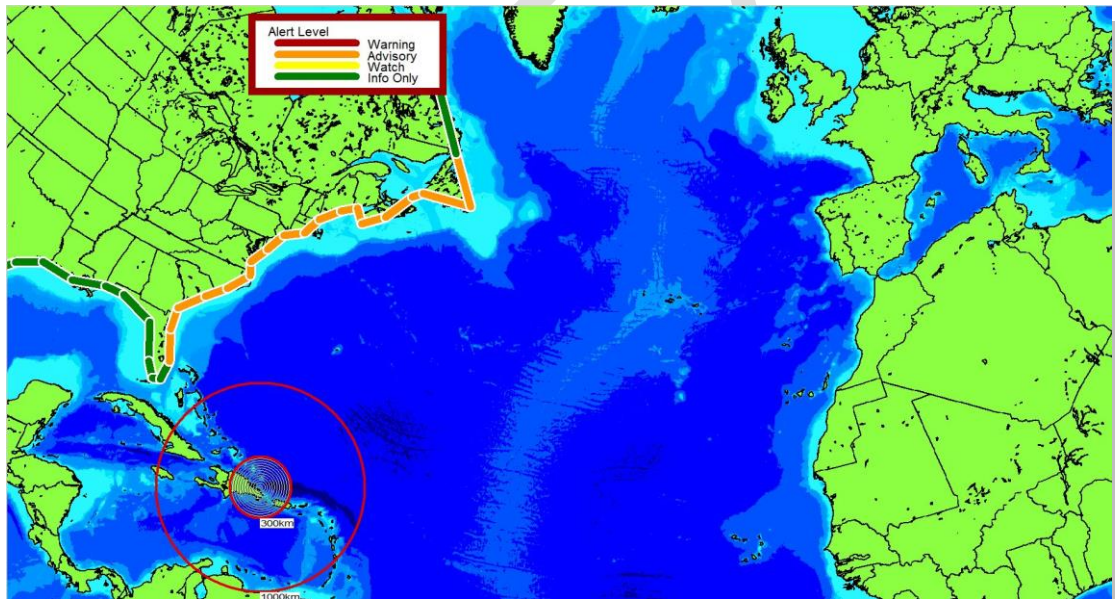


Figure D5: Watch/Advisory areas after Bulletin 6.

NTWC Bulletin #7

WEXX30 PAAQ 261501
TSUATE

BULLETIN

Public Tsunami Message Number 7
NWS National Tsunami Warning Center Palmer AK
1101 AM AST Tue Mar 26 2019

LANTEX19 Handbook

UPDATES

- * Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----
* Florida			
Miami	1045 EDT Mar 26		
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.3- 2.3 ft
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		less than 1ft
* North Carolina			
Cape Hatteras	1055 EDT Mar 26	15 hrs	1.1- 2.0 ft
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.6 ft

LANTEX19 Handbook

* South Carolina
 Myrtle Beach 1245 EDT Mar 26 15 hrs 1.0- 1.9 ft
 Charleston 1255 EDT Mar 26 less than 1ft

* Georgia
 Savannah 1300 EDT Mar 26 less than 1ft

* Massachusetts
 Nantucket 1305 EDT Mar 26
 Boston 1430 EDT Mar 26

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	0847 EDT Mar 26	1.3ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	0958 EDT Mar 26	2.5ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
 * Origin Time 0800 EDT Mar 26 2019
 0800 AST Mar 26 2019
 0700 CDT Mar 26 2019
 1200 UTC Mar 26 2019

LANTEX19 Handbook

* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This message will be updated within 30 minutes.

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NTWC Bulletin #8

WEXX30 PAAQ 261531
TSUATE

BULLETIN
Public Tsunami Message Number 8
NWS National Tsunami Warning Center Palmer AK
1131 AM AST Tue Mar 26 2019

UPDATES

* Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

LANTEX19 Handbook

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

* Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----
* Florida			
Miami	1045 EDT Mar 26		
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.3- 2.3 ft
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		less than 1ft
* North Carolina			
Cape Hatteras	1055 EDT Mar 26	15 hrs	1.1- 2.0 ft
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.6 ft
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 ft
Charleston	1255 EDT Mar 26		less than 1ft
* Georgia			
Savannah	1300 EDT Mar 26		less than 1ft
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		
* Newfoundland			
Saint Lawrence	1455 NDT Mar 26		
Bonavista	1635 NDT Mar 26		
* New Brunswick			
Grand Manan Isla	1440 ADT Mar 26		
* Maine			

LANTEX19 Handbook

Portland 1410 EDT Mar 26

* Labrador

Battle Harbour 1700 NDT Mar 26

Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1104 EDT Mar 26	1.5ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	0958 EDT Mar 26	2.5ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5

* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019

* Coordinates 19.2 North 68.7 West

* Depth 14 miles

* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.

LANTEX19 Handbook

* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.

* This message will be updated within 30 minutes.

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NTWC Bulletin #9

WEXX30 PAAQ 261600
TSUATE

BULLETIN
Public Tsunami Message Number 9
NWS National Tsunami Warning Center Palmer AK
1200 PM AST Tue Mar 26 2019

UPDATES

* Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

* Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----
* Florida			
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.3- 2.3 ft
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		less than 1ft

LANTEX19 Handbook

* Nova Scotia
 Lockeport 1325 ADT Mar 26
 Scatarie Island 1425 ADT Mar 26

* New York
 Montauk 1230 EDT Mar 26
 Manhattan 1355 EDT Mar 26

* Virginia
 Virginia Beach 1230 EDT Mar 26

* New Jersey
 Atlantic City 1235 EDT Mar 26 24 hrs 2.0- 3.7 ft

* South Carolina
 Myrtle Beach 1245 EDT Mar 26 15 hrs 1.0- 1.9 ft
 Charleston 1255 EDT Mar 26 less than 1ft

* Georgia
 Savannah 1300 EDT Mar 26 less than 1ft

* Massachusetts
 Nantucket 1305 EDT Mar 26
 Boston 1430 EDT Mar 26

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft

LANTEX19 Handbook

Culebra Puerto Rico	1104	EDT Mar 26	1.5ft
Lameshur Bay VI	1026	EDT Mar 26	2.5ft
Charlotte Amalie VI	0958	EDT Mar 26	2.5ft
Bermuda Bermuda	1022	EDT Mar 26	1.2ft
Virginia Key Florida	1141	EDT Mar 26	0.1ft
Oregon Inlet NC	1136	EDT Mar 26	0.6ft
Beaufort North Carolina	1159	EDT Mar 26	0.7ft
Port Canaveral Florida	1143	EDT Mar 26	1.5ft
Duck North Carolina	1154	EDT Mar 26	2.5ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.
* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
* This message will be updated within 30 minutes.

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NTWC Conference Call #2

NOAK78 PAAQ 261615
ADAAT1

...TSUNAMI TELECONFERENCE IS SCHEDULED...

A TELECONFERENCE CONCERNING THE ONGOING TSUNAMI IS SCHEDULED FOR

* Atlantic and Gulf of Mexico coastal Weather Forecast Offices
* Atlantic and Gulf of Mexico coastal state warning points

LANTEX19 Handbook

- * Atlantic and Gulf of Mexico FEMA Regional Offices
- * Atlantic and Gulf of Mexico US Coast Guard District Offices

The teleconference will be led by the National Tsunami Warning Center.

THE TELECONFERENCE WILL BE HELD AT

-
- * 1300 EDT MAR 26 2019
 - * 1300 AST MAR 26 2019
 - * 1700 UTC MAR 26 2019

CALL 1-877-708-6816 PASSCODE 2763065#

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NTWC Bulletin #10

WEXX30 PAAQ 261631
TSUATE

BULLETIN
Public Tsunami Message Number 10
NWS National Tsunami Warning Center Palmer AK
1231 PM AST Tue Mar 26 2019

UPDATES

- * Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

FORECAST

FORECAST FORECAST

LANTEX19 Handbook

SITE -----	START OF TSUNAMI -----	TSUNAMI DURATION -----	MAX TSUNAMI HEIGHT -----
* Florida			
Daytona	1200 EDT Mar 26	15 hrs	1.3- 2.4 ft
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		less than 1ft
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.7 ft
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 ft
Charleston	1255 EDT Mar 26		less than 1ft
* Georgia			
Savannah	1300 EDT Mar 26		less than 1ft
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		
* Newfoundland			
Saint Lawrence	1455 NDT Mar 26		
Bonavista	1635 NDT Mar 26		
* New Brunswick			
Grand Manan Isla	1440 ADT Mar 26		
* Maine			
Portland	1410 EDT Mar 26		
* Labrador			
Battle Harbour	1700 NDT Mar 26		
Cape Makkovik	1635 ADT Mar 26		

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE -----	TIME OF MEASUREMENT -----	OBSERVED MAX TSUNAMI HEIGHT -----
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft

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Arecibo Puerto Rico	0815	EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827	EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826	EDT Mar 26	0.8ft
Magueyes Island PR	0941	EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855	EDT Mar 26	2.1ft
Christiansted VI	1054	EDT Mar 26	0.7ft
Vieques Is. north PR	1014	EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013	EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046	EDT Mar 26	2.2ft
Culebra Puerto Rico	1206	EDT Mar 26	1.8ft
Lameshur Bay VI	1026	EDT Mar 26	2.5ft
Charlotte Amalie VI	1201	EDT Mar 26	3.8ft
Bermuda Bermuda	1022	EDT Mar 26	1.2ft
Virginia Key Florida	1141	EDT Mar 26	0.1ft
Key West Florida	1216	EDT Mar 26	0.2ft
Oregon Inlet NC	1136	EDT Mar 26	0.6ft
Vaca Key Florida	1219	EDT Mar 26	0.2ft
Beaufort North Carolina	1159	EDT Mar 26	0.7ft
Port Canaveral Florida	1143	EDT Mar 26	1.5ft
Duck North Carolina	1154	EDT Mar 26	2.5ft
Ocean City Maryland	1223	EDT Mar 26	1.8ft
Wrightsville Beach NC	1225	EDT Mar 26	2.2ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.

* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.

* This message will be updated within 30 minutes.

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NTWC Bulletin #11

WEXX30 PAAQ 261703
TSUATE

BULLETIN

Public Tsunami Message Number 11
NWS National Tsunami Warning Center Palmer AK
103 PM AST Tue Mar 26 2019

UPDATES

- * Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----

* Florida			
Jacksonville Bea	1235 EDT Mar 26		less than 1ft

* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		

* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		

* Virginia			
Virginia Beach	1230 EDT Mar 26		

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* New Jersey
 Atlantic City 1235 EDT Mar 26 24 hrs 2.0- 3.7 ft

* South Carolina
 Myrtle Beach 1245 EDT Mar 26 15 hrs 1.0- 1.9 ft
 Charleston 1255 EDT Mar 26 less than 1ft

* Georgia
 Savannah 1300 EDT Mar 26 less than 1ft

* Massachusetts
 Nantucket 1305 EDT Mar 26
 Boston 1430 EDT Mar 26

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

 * Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT

Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1141 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft

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Duck North Carolina	1154	EDT Mar 26	2.5ft
Ocean City Maryland	1223	EDT Mar 26	1.8ft
Wrightsville Beach NC	1225	EDT Mar 26	2.2ft
Montauk New York	1257	EDT Mar 26	0.6ft
Atlantic City NJ	1247	EDT Mar 26	2.9ft
Chesapeake Bridge VA	1300	EDT Mar 26	0.4ft
Halifax Nova Scotia	1256	EDT Mar 26	1.0ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.
* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
* This message will be updated within 30 minutes.

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NTWC Bulletin #12

WEXX30 PAAQ 261731
TSUATE

BULLETIN
Public Tsunami Message Number 12
NWS National Tsunami Warning Center Palmer AK
131 PM AST Tue Mar 26 2019

UPDATES

* Updated observations

LANTEX19 Handbook

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----
* Florida			
Jacksonville Bea	1235 EDT Mar 26		less than 1ft
* Nova Scotia			
Scatarie Island	1425 ADT Mar 26		
* New York			
Manhattan	1355 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.7 ft
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 ft
Charleston	1255 EDT Mar 26		less than 1ft
* Georgia			
Savannah	1300 EDT Mar 26		less than 1ft
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		
* Newfoundland			
Saint Lawrence	1455 NDT Mar 26		
Bonavista	1635 NDT Mar 26		
* New Brunswick			

LANTEX19 Handbook

Grand Manan Isla 1440 ADT Mar 26

* Maine
Portland 1410 EDT Mar 26

* Labrador
Battle Harbour 1700 NDT Mar 26
Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT

Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1141 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Lewes Delaware	1303 EDT Mar 26	0.8ft
Springmaid Pier SC	1303 EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300 EDT Mar 26	0.4ft
Woods Hole MA	1316 EDT Mar 26	0.6ft
Newport Rhode Island	1305 EDT Mar 26	1.0ft
Charleston SC	1303 EDT Mar 26	0.3ft
Cape May New Jersey	1316 EDT Mar 26	0.6ft
Kiptopeke Virginia	1314 EDT Mar 26	0.3ft
Halifax Nova Scotia	1256 EDT Mar 26	1.0ft
Quonset Point RI	1324 EDT Mar 26	0.7ft

PRELIMINARY EARTHQUAKE PARAMETERS

LANTEX19 Handbook

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This message will be updated within 30 minutes.

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NTWC Bulletin #13

WEXX30 PAAQ 261800
TSUATE

BULLETIN

Public Tsunami Message Number 13
NWS National Tsunami Warning Center Palmer AK
200 PM AST Tue Mar 26 2019

UPDATES

* Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle

LANTEX19 Handbook

Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

* Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----
* Nova Scotia			
Scatarie Island	1425 ADT	Mar 26	
* New York			
Manhattan	1355 EDT	Mar 26	
* Massachusetts			
Nantucket	1305 EDT	Mar 26	
Boston	1430 EDT	Mar 26	
* Newfoundland			
Saint Lawrence	1455 NDT	Mar 26	
Bonavista	1635 NDT	Mar 26	
* New Brunswick			
Grand Manan Isla	1440 ADT	Mar 26	
* Maine			
Portland	1410 EDT	Mar 26	
* Labrador			
Battle Harbour	1700 NDT	Mar 26	
Cape Makkovik	1635 ADT	Mar 26	

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
-----	-----	-----
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft

LANTEX19 Handbook

Vieques Is. north PR	1014	EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013	EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046	EDT Mar 26	2.2ft
Culebra Puerto Rico	1206	EDT Mar 26	1.8ft
Lameshur Bay VI	1026	EDT Mar 26	2.5ft
Charlotte Amalie VI	1201	EDT Mar 26	3.8ft
Bermuda Bermuda	1022	EDT Mar 26	1.2ft
Virginia Key Florida	1141	EDT Mar 26	0.1ft
Key West Florida	1216	EDT Mar 26	0.2ft
Oregon Inlet NC	1136	EDT Mar 26	0.6ft
Vaca Key Florida	1219	EDT Mar 26	0.2ft
Beaufort North Carolina	1159	EDT Mar 26	0.7ft
Port Canaveral Florida	1143	EDT Mar 26	1.5ft
Duck North Carolina	1154	EDT Mar 26	2.5ft
Ocean City Maryland	1223	EDT Mar 26	1.8ft
Wrightsville Beach NC	1225	EDT Mar 26	2.2ft
Montauk New York	1318	EDT Mar 26	0.9ft
Atlantic City NJ	1247	EDT Mar 26	2.9ft
Lewes Delaware	1303	EDT Mar 26	0.8ft
Springmaid Pier SC	1303	EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300	EDT Mar 26	0.4ft
Woods Hole MA	1316	EDT Mar 26	0.6ft
Newport Rhode Island	1305	EDT Mar 26	1.0ft
Fernandina Beach FL	1349	EDT Mar 26	0.2ft
Charleston SC	1303	EDT Mar 26	0.3ft
Sandy Hook New Jersey	1336	EDT Mar 26	0.1ft
Nantucket Massachusetts	1347	EDT Mar 26	0.5ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1314	EDT Mar 26	0.3ft
Halifax Nova Scotia	1256	EDT Mar 26	1.0ft
Cutler NAS Maine	1339	EDT Mar 26	0.2ft
Quonset Point RI	1324	EDT Mar 26	0.7ft
Bar Harbor Maine	1342	EDT Mar 26	0.4ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

LANTEX19 Handbook

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This message will be updated within 30 minutes.

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NTWC Bulletin #14

WEXX30 PAAQ 261830
TSUATE

BULLETIN

Public Tsunami Message Number 14
NWS National Tsunami Warning Center Palmer AK
230 PM AST Tue Mar 26 2019

UPDATES

- * Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
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* New York Manhattan	1355	EDT	Mar 26
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LANTEX19 Handbook

* Massachusetts
 Boston 1430 EDT Mar 26

* Newfoundland
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

 * Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT

Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1141 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Lewes Delaware	1303 EDT Mar 26	0.8ft
Springmaid Pier SC	1303 EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300 EDT Mar 26	0.4ft
Woods Hole MA	1316 EDT Mar 26	0.6ft
Newport Rhode Island	1305 EDT Mar 26	1.0ft
Fernandina Beach FL	1349 EDT Mar 26	0.2ft
Charleston SC	1303 EDT Mar 26	0.3ft

LANTEX19 Handbook

Sandy Hook New Jersey	1405	EDT Mar 26	0.3ft
Nantucket Massachusetts	1347	EDT Mar 26	0.5ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1314	EDT Mar 26	0.3ft
Halifax Nova Scotia	1256	EDT Mar 26	1.0ft
Cutler NAS Maine	1339	EDT Mar 26	0.2ft
Quonset Point RI	1324	EDT Mar 26	0.7ft
The US/Canada Border US	1423	EDT Mar 26	0.1ft
Bar Harbor Maine	1342	EDT Mar 26	0.4ft
Fort Point NH	1410	EDT Mar 26	0.5ft
Manhattan New York	1412	EDT Mar 26	0.3ft
Wells Maine	1409	EDT Mar 26	0.4ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.
* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
* This message will be updated within 30 minutes.

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NTWC Bulletin #15

WEXX30 PAAQ 261900
TSUATE

BULLETIN
Public Tsunami Message Number 15
NWS National Tsunami Warning Center Palmer AK
300 PM AST Tue Mar 26 2019

LANTEX19 Handbook

UPDATES

- * Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----

* Massachusetts
Boston 1430 EDT Mar 26

* Newfoundland
Bonavista 1635 NDT Mar 26

* Maine
Portland 1410 EDT Mar 26

* Labrador
Battle Harbour 1700 NDT Mar 26
Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

- * Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
-----	-----	-----
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft

LANTEX19 Handbook

Arecibo Puerto Rico	0815	EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827	EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826	EDT Mar 26	0.8ft
Magueyes Island PR	0941	EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855	EDT Mar 26	2.1ft
Christiansted VI	1054	EDT Mar 26	0.7ft
Vieques Is. north PR	1014	EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013	EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046	EDT Mar 26	2.2ft
Culebra Puerto Rico	1206	EDT Mar 26	1.8ft
Lameshur Bay VI	1026	EDT Mar 26	2.5ft
Charlotte Amalie VI	1201	EDT Mar 26	3.8ft
Bermuda Bermuda	1022	EDT Mar 26	1.2ft
Virginia Key Florida	1141	EDT Mar 26	0.1ft
Key West Florida	1216	EDT Mar 26	0.2ft
Oregon Inlet NC	1136	EDT Mar 26	0.6ft
Vaca Key Florida	1219	EDT Mar 26	0.2ft
Beaufort North Carolina	1159	EDT Mar 26	0.7ft
Port Canaveral Florida	1143	EDT Mar 26	1.5ft
Duck North Carolina	1154	EDT Mar 26	2.5ft
Ocean City Maryland	1223	EDT Mar 26	1.8ft
Wrightsville Beach NC	1225	EDT Mar 26	2.2ft
Montauk New York	1318	EDT Mar 26	0.9ft
Atlantic City NJ	1247	EDT Mar 26	2.9ft
Lewes Delaware	1303	EDT Mar 26	0.8ft
Springmaid Pier SC	1303	EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300	EDT Mar 26	0.4ft
Woods Hole MA	1316	EDT Mar 26	0.6ft
Newport Rhode Island	1305	EDT Mar 26	1.0ft
Fernandina Beach FL	1349	EDT Mar 26	0.2ft
Charleston SC	1303	EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405	EDT Mar 26	0.3ft
Nantucket Massachusetts	1500	EDT Mar 26	0.7ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1439	EDT Mar 26	0.3ft
Halifax Nova Scotia	1256	EDT Mar 26	1.0ft
Cutler NAS Maine	1339	EDT Mar 26	0.2ft
Quonset Point RI	1324	EDT Mar 26	0.7ft
Windmill Point Virginia	1452	EDT Mar 26	0.1ft
The US/Canada Border US	1423	EDT Mar 26	0.1ft
Bar Harbor Maine	1342	EDT Mar 26	0.4ft
Fort Point NH	1410	EDT Mar 26	0.5ft
Manhattan New York	1412	EDT Mar 26	0.3ft
Ship John Shoal NJ	1443	EDT Mar 26	0.0ft
Wells Maine	1457	EDT Mar 26	0.6ft
New Haven Connecticut	1436	EDT Mar 26	0.2ft
Yorktown Virginia	1434	EDT Mar 26	0.2ft
Bridgeport Connecticut	1456	EDT Mar 26	0.1ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude	8.5		
* Origin Time	0800	EDT Mar 26	2019
	0800	AST Mar 26	2019
	0700	CDT Mar 26	2019
	1200	UTC Mar 26	2019

LANTEX19 Handbook

* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This message will be updated within 30 minutes.

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NTWC Conference Call #3

NOAK78 PAAQ 261915
ADAAT1

...TSUNAMI TELECONFERENCE IS SCHEDULED...

A TELECONFERENCE CONCERNING THE ONGOING TSUNAMI IS SCHEDULED FOR

- * Atlantic and Gulf of Mexico coastal Weather Forecast Offices
- * Atlantic and Gulf of Mexico coastal state warning points
- * Atlantic and Gulf of Mexico FEMA Regional Offices
- * Atlantic and Gulf of Mexico US Coast Guard District Offices

The teleconference will be led by the National Tsunami Warning Center.

THE TELECONFERENCE WILL BE HELD AT

- * 1600 EDT MAR 26 2019
- * 1600 AST MAR 26 2019
- * 2000 UTC MAR 26 2019

CALL 1-877-708-6816 PASSCODE 2763065#

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NTWC Bulletin #16

LANTEX19 Handbook

WEXX30 PAAQ 261931
TSUATE

BULLETIN
Public Tsunami Message Number 16
NWS National Tsunami Warning Center Palmer AK
331 PM AST Tue Mar 26 2019

UPDATES

- * Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

- * Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST DURATION	FORECAST MAX TSUNAMI HEIGHT
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* Newfoundland
Bonavista 1635 NDT Mar 26

* Labrador
Battle Harbour 1700 NDT Mar 26
Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

- * Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
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LANTEX19 Handbook

Aguadilla Puerto Rico	0811	EDT	Mar 26	6.9ft
Arecibo Puerto Rico	0815	EDT	Mar 26	6.7ft
Mayaguez Puerto Rico	0827	EDT	Mar 26	6.6ft
San Juan TG Puerto Rico	0826	EDT	Mar 26	0.8ft
Magueyes Island PR	0941	EDT	Mar 26	2.6ft
Penuelas Puerto Rico	0855	EDT	Mar 26	2.1ft
Christiansted VI	1054	EDT	Mar 26	0.7ft
Vieques Is. north PR	1014	EDT	Mar 26	3.0ft
Yabucoa Puerto Rico	1013	EDT	Mar 26	2.9ft
Fajardo Puerto Rico	1046	EDT	Mar 26	2.2ft
Culebra Puerto Rico	1206	EDT	Mar 26	1.8ft
Lameshur Bay VI	1026	EDT	Mar 26	2.5ft
Charlotte Amalie VI	1201	EDT	Mar 26	3.8ft
Bermuda Bermuda	1022	EDT	Mar 26	1.2ft
Virginia Key Florida	1141	EDT	Mar 26	0.1ft
Key West Florida	1216	EDT	Mar 26	0.2ft
Oregon Inlet NC	1136	EDT	Mar 26	0.6ft
Vaca Key Florida	1219	EDT	Mar 26	0.2ft
Beaufort North Carolina	1159	EDT	Mar 26	0.7ft
Port Canaveral Florida	1143	EDT	Mar 26	1.5ft
Duck North Carolina	1154	EDT	Mar 26	2.5ft
Ocean City Maryland	1223	EDT	Mar 26	1.8ft
Wrightsville Beach NC	1225	EDT	Mar 26	2.2ft
Montauk New York	1318	EDT	Mar 26	0.9ft
Atlantic City NJ	1247	EDT	Mar 26	2.9ft
Lewes Delaware	1303	EDT	Mar 26	0.8ft
Springmaid Pier SC	1303	EDT	Mar 26	1.4ft
Chesapeake Bridge VA	1300	EDT	Mar 26	0.4ft
Woods Hole MA	1316	EDT	Mar 26	0.6ft
Newport Rhode Island	1305	EDT	Mar 26	1.0ft
Fernandina Beach FL	1349	EDT	Mar 26	0.2ft
Charleston SC	1303	EDT	Mar 26	0.3ft
Sandy Hook New Jersey	1405	EDT	Mar 26	0.3ft
Nantucket Massachusetts	1500	EDT	Mar 26	0.7ft
Cape May New Jersey	1316	EDT	Mar 26	0.6ft
Kiptopeke Virginia	1439	EDT	Mar 26	0.3ft
Halifax Nova Scotia	1256	EDT	Mar 26	1.0ft
Panama City Florida	1529	EDT	Mar 26	0.0ft
Cutler NAS Maine	1515	EDT	Mar 26	0.6ft
Quonset Point RI	1324	EDT	Mar 26	0.7ft
Windmill Point Virginia	1452	EDT	Mar 26	0.1ft
The US/Canada Border US	1423	EDT	Mar 26	0.1ft
Bar Harbor Maine	1501	EDT	Mar 26	1.2ft
Fort Point NH	1410	EDT	Mar 26	0.5ft
Manhattan New York	1412	EDT	Mar 26	0.3ft
Ship John Shoal NJ	1520	EDT	Mar 26	0.1ft
Wells Maine	1457	EDT	Mar 26	0.6ft
New Haven Connecticut	1436	EDT	Mar 26	0.2ft
Yorktown Virginia	1434	EDT	Mar 26	0.2ft
Bridgeport Connecticut	1456	EDT	Mar 26	0.1ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
 * Origin Time 0800 EDT Mar 26 2019

LANTEX19 Handbook

0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.
* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
* This message will be updated within 30 minutes.

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NTWC Bulletin #17

WEXX30 PAAQ 262000
TSUATE

BULLETIN

Public Tsunami Message Number 17
NWS National Tsunami Warning Center Palmer AK
400 PM AST Tue Mar 26 2019

UPDATES

* Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

LANTEX19 Handbook

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

* Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
* Newfoundland			
Bonavista	1635	NDT Mar 26	
* Labrador			
Battle Harbour	1700	NDT Mar 26	
Cape Makkovik	1635	ADT Mar 26	

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
DART 41424 US	0955 EDT Mar 26	0.7ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1533 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft

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Lewes Delaware	1303	EDT Mar 26	0.8ft
Springmaid Pier SC	1303	EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300	EDT Mar 26	0.4ft
Woods Hole MA	1316	EDT Mar 26	0.6ft
Newport Rhode Island	1305	EDT Mar 26	1.0ft
Fernandina Beach FL	1349	EDT Mar 26	0.2ft
Charleston SC	1303	EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405	EDT Mar 26	0.3ft
Nantucket Massachusetts	1500	EDT Mar 26	0.7ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1439	EDT Mar 26	0.3ft
Halifax Nova Scotia	1544	EDT Mar 26	1.0ft
Panama City Florida	1529	EDT Mar 26	0.0ft
Cutler NAS Maine	1551	EDT Mar 26	1.2ft
Quonset Point RI	1324	EDT Mar 26	0.7ft
Windmill Point Virginia	1452	EDT Mar 26	0.1ft
The US/Canada Border US	1532	EDT Mar 26	0.2ft
Bar Harbor Maine	1501	EDT Mar 26	1.2ft
Fort Point NH	1410	EDT Mar 26	0.5ft
Manhattan New York	1412	EDT Mar 26	0.3ft
Ship John Shoal NJ	1520	EDT Mar 26	0.1ft
Wells Maine	1457	EDT Mar 26	0.6ft
New Haven Connecticut	1436	EDT Mar 26	0.2ft
Yorktown Virginia	1434	EDT Mar 26	0.2ft
Bridgeport Connecticut	1456	EDT Mar 26	0.1ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5
* Origin Time 0800 EDT Mar 26 2019
0800 AST Mar 26 2019
0700 CDT Mar 26 2019
1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.

* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.

LANTEX19 Handbook

* This message will be updated within 30 minutes.

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NTWC Bulletin #18

WEXX30 PAAQ 262030

TSUATE

BULLETIN

Public Tsunami Message Number 18

NWS National Tsunami Warning Center Palmer AK

430 PM AST Tue Mar 26 2019

UPDATES

* Updated observations

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

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 and Newfoundland from Jupiter Inlet, Florida to Strait of Belle Isle, Newfoundland

For other US and Canadian Coasts in the Atlantic, the level of tsunami danger is being evaluated. Further information will be provided in supplementary messages.

FORECASTS OF TSUNAMI ACTIVITY

* Tsunami activity is forecasted to start at the following locations at the specified times.

SITE	FORECAST START OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT
----	-----	-----	-----

* Labrador
Cape Makkovik 1635 ADT Mar 26

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

TIME OBSERVED MAX

LANTEX19 Handbook

SITE	OF MEASUREMENT	TSUNAMI HEIGHT
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1533 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Lewes Delaware	1303 EDT Mar 26	0.8ft
Springmaid Pier SC	1303 EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300 EDT Mar 26	0.4ft
Woods Hole MA	1316 EDT Mar 26	0.6ft
Newport Rhode Island	1305 EDT Mar 26	1.0ft
Fernandina Beach FL	1349 EDT Mar 26	0.2ft
Charleston SC	1303 EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405 EDT Mar 26	0.3ft
Nantucket Massachusetts	1500 EDT Mar 26	0.7ft
Cape May New Jersey	1316 EDT Mar 26	0.6ft
Kiptopeke Virginia	1439 EDT Mar 26	0.3ft
Halifax Nova Scotia	1544 EDT Mar 26	1.0ft
Panama City Florida	1529 EDT Mar 26	0.0ft
Cutler NAS Maine	1551 EDT Mar 26	1.2ft
Quonset Point RI	1324 EDT Mar 26	0.7ft
Windmill Point Virginia	1452 EDT Mar 26	0.1ft
The US/Canada Border US	1532 EDT Mar 26	0.2ft
Bar Harbor Maine	1501 EDT Mar 26	1.2ft
Fort Point NH	1606 EDT Mar 26	0.8ft
Manhattan New York	1412 EDT Mar 26	0.3ft
Ship John Shoal NJ	1520 EDT Mar 26	0.1ft
Wells Maine	1457 EDT Mar 26	0.6ft
New Haven Connecticut	1436 EDT Mar 26	0.2ft
Yorktown Virginia	1434 EDT Mar 26	0.2ft
Bridgeport Connecticut	1456 EDT Mar 26	0.1ft

PRELIMINARY EARTHQUAKE PARAMETERS

* Magnitude 8.5

LANTEX19 Handbook

* Origin Time 0800 EDT Mar 26 2019
 0800 AST Mar 26 2019
 0700 CDT Mar 26 2019
 1200 UTC Mar 26 2019
* Coordinates 19.2 North 68.7 West
* Depth 14 miles
* Location 125 miles NW of Mayaguez, Puerto Rico
 180 miles NW of San Juan, Puerto Rico

RECOMMENDED ACTIONS

* See message number 6 for recommended actions.

IMPACTS

* See message number 6 for possible impacts.

ADDITIONAL INFORMATION AND NEXT UPDATE

* Refer to the internet site tsunami.gov for more information.
* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
* This message will be updated within 30 minutes.

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NTWC Bulletins #19 - #31

At this point, the wavefront has moved north beyond the US - Canadian border and bulletins issued are of similar nature to bulletin #18.

NTWC Bulletin #32

WEXX30 PAAQ 270300
TSUATE

BULLETIN

Public Tsunami Message Number 32
NWS National Tsunami Warning Center Palmer AK
1100 PM AST Tue Mar 26 2019

...THE TSUNAMI ADVISORY IS CANCELLED...

* 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 and Newfoundland

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

LANTEX19 Handbook

 * Observed max tsunami height is the highest recorded water level above the tide level up to the time of this message.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT

Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1533 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Lewes Delaware	1303 EDT Mar 26	0.8ft
Springmaid Pier SC	1303 EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300 EDT Mar 26	0.4ft
Woods Hole MA	1316 EDT Mar 26	0.6ft
Newport Rhode Island	1305 EDT Mar 26	1.0ft
Fernandina Beach FL	1349 EDT Mar 26	0.2ft
Charleston SC	1303 EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405 EDT Mar 26	0.3ft
Nantucket Massachusetts	1500 EDT Mar 26	0.7ft
Cape May New Jersey	1316 EDT Mar 26	0.6ft
Kiptopeke Virginia	1439 EDT Mar 26	0.3ft
Halifax Nova Scotia	1544 EDT Mar 26	1.0ft
Panama City Florida	1529 EDT Mar 26	0.0ft
Cutler NAS Maine	1551 EDT Mar 26	1.2ft
Quonset Point RI	1324 EDT Mar 26	0.7ft
Windmill Point Virginia	1452 EDT Mar 26	0.1ft
The US/Canada Border US	1532 EDT Mar 26	0.2ft
Bar Harbor Maine	1501 EDT Mar 26	1.2ft
Fort Point NH	1606 EDT Mar 26	0.8ft
Manhattan New York	1412 EDT Mar 26	0.3ft
Ship John Shoal NJ	1520 EDT Mar 26	0.1ft
Wells Maine	1457 EDT Mar 26	0.6ft
New Haven Connecticut	1436 EDT Mar 26	0.2ft
Yorktown Virginia	1434 EDT Mar 26	0.2ft
Bridgeport Connecticut	1456 EDT Mar 26	0.1ft

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RECOMMENDED ACTIONS - UPDATED

- * Do not re-occupy hazard zones until local emergency officials indicate it is safe to do so.

IMPACTS - UPDATED

- * A tsunami was generated by this event, but no longer poses a threat.
- * Some areas may continue to see small sea level changes.
- * The determination to re-occupy hazard zones must be made by local officials.

ADDITIONAL INFORMATION AND NEXT UPDATE

- * Refer to the internet site tsunami.gov for more information.
- * Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at tsunami.gov.
- * This will be the final U.S. National Tsunami Warning Center message issued for this event.

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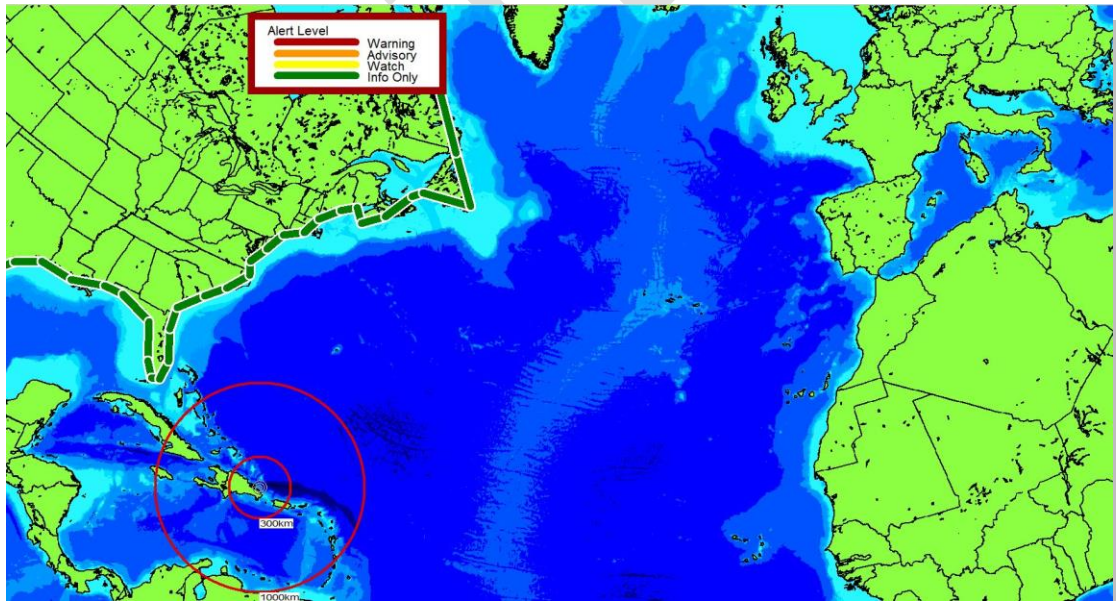


Figure D6: Watch/Advisory areas after Bulletin 32.

NTWC Spanish TIS #1

WEXX42 PAAQ 261205
TIBSPA

LANTEX19 Handbook

Boletin Informativo de Tsunami Numero 1
NWS Centro Nacional de Alerta de Tsunami Palmer AK
805 AM AST Tue Mar 26 2019

...BOLETIN INFORMATIVO ACERCA DEL PELIGRO DE TSUNAMI PARA LAS
COSTAS DEL ESTE DE LOS ESTADOS UNIDOS Y CANADA, Y GOLFO DE
MEXICO...

EVALUACION

- * Un tsunami ha sido generado que pudiera impactar las areas indicadas arriba.
- * 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

- * LOS SIGUIENTES PARAMETROS ESTAN BASADOS EN UNA EVALUACION PRELIMINAR RAPIDA Y PUEDEN VARIAR.
- * Magnitud 8.0
- * Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
- * Coordenadas 19.2 Norte 68.7 Oeste
- * Profundidad 14 millas
- * Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Se emitiran mensajes cada hora para informar sobre la evolucion del evento.

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NTWC Spanish Bulletin #2

WEXX40 PAAQ 261234
TSUSPA

LANTEX19 Handbook

BULLETIN

Mensaje de Tsunami numero 2
NWS Centro Nacional de Alerta de Tsunami Palmer AK
834 AM AST Tue Mar 26 2019

ACTUALIZACIONES

- * Un tsunami ha sido confirmado y se esperan algunas impactos
- * Nuevas observaciones
- * Modifica las regiones bajo alerta
- * Magnitud revisada

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

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

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PARAMETROS PRELIMINARES DEL TERREMOTO - ACTUALIZADOS

* LOS SIGUIENTES PARAMETROS ESTAN BASADOS EN UNA EVALUACION PRELIMINAR RAPIDA Y PUEDEN VARIAR.

- * Magnitud 8.5
- * Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
- * Coordenadas 19.2 Norte 68.7 Oeste
- * Profundidad 14 millas
- * Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

PRONOSTICOS DEL TSUNAMI

- * Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LLEGADA
PRONOSTICADA

LANTEX19 Handbook

LUGAR -----	DEL TSUNAMI -----
* Florida	
Miami	1045 EDT Mar 26
Key West	1115 EDT Mar 26
Daytona	1200 EDT Mar 26
Melbourne Beach	1200 EDT Mar 26
Jacksonville Bea	1235 EDT Mar 26
* North Carolina	
Cape Hatteras	1055 EDT Mar 26
* Nova Scotia	
Lockeport	1325 ADT Mar 26
Scatarie Island	1425 ADT Mar 26
* New York	
Montauk	1230 EDT Mar 26
Manhattan	1355 EDT Mar 26
* Virginia	
Virginia Beach	1230 EDT Mar 26
* New Jersey	
Atlantic City	1235 EDT Mar 26
* South Carolina	
Myrtle Beach	1245 EDT Mar 26
Charleston	1255 EDT Mar 26
* Georgia	
Savannah	1300 EDT Mar 26
* Massachusetts	
Nantucket	1305 EDT Mar 26
Boston	1430 EDT Mar 26
* Newfoundland	
Saint Lawrence	1455 NDT Mar 26
Bonavista	1635 NDT Mar 26
* New Brunswick	
Grand Manan Isla	1440 ADT Mar 26
* Maine	
Portland	1410 EDT Mar 26
* Labrador	
Battle Harbour	1700 NDT Mar 26
Cape Makkovik	1635 ADT Mar 26

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

- * La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

LANTEX19 Handbook

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0822 EDT Mar 26	0.5ft
Penuelas Puerto Rico	0818 EDT Mar 26	0.4ft

ACCIONES RECOMENDADAS

Si usted esta en un area de vigilancia;

- * Preparese para tomar accion y este alerta para mas informacion.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #3

WEXX40 PAAQ 261302
TSUSPA

BULLETIN

Mensaje de Tsunami numero 3
NWS Centro Nacional de Alerta de Tsunami Palmer AK
902 AM AST Tue Mar 26 2019

ACTUALIZACIONES

- * Nuevas observaciones
- * Modifica las regiones bajo alerta

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

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

Advertencia de Tsunami en Efecto para;

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- * Areas costeras de Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware y New Jersey desde Jupiter Inlet, Florida hasta Sandy Hook, New Jersey

Vigilancia de Tsunami en Efecto para;

- * Areas costeras de New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia, Newfoundland y Labrador desde Sandy Hook, New Jersey hasta Cape Chidley, Labrador

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

- * Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

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

* Florida

Miami	1045	EDT Mar 26	
Key West	1115	EDT Mar 26	
Daytona	1200	EDT Mar 26	
Melbourne Beach	1200	EDT Mar 26	
Jacksonville Bea	1235	EDT Mar 26	

* North Carolina

Cape Hatteras	1055	EDT Mar 26	
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* Nova Scotia

Lockeport	1325	ADT Mar 26	
Scatarie Island	1425	ADT Mar 26	

* New York

Montauk	1230	EDT Mar 26	
Manhattan	1355	EDT Mar 26	

* Virginia

Virginia Beach	1230	EDT Mar 26	
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* New Jersey

Atlantic City	1235	EDT Mar 26	
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* South Carolina

Myrtle Beach	1245	EDT Mar 26	
Charleston	1255	EDT Mar 26	

* Georgia

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Savannah 1300 EDT Mar 26

 * Massachusetts

Nantucket 1305 EDT Mar 26

Boston 1430 EDT Mar 26

 * Newfoundland

Saint Lawrence 1455 NDT Mar 26

Bonavista 1635 NDT Mar 26

 * New Brunswick

Grand Manan Isla 1440 ADT Mar 26

 * Maine

Portland 1410 EDT Mar 26

 * Labrador

Battle Harbour 1700 NDT Mar 26

Cape Makkovik 1635 ADT Mar 26

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0853 EDT Mar 26	1.8ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Vieques Is. north PR	0858 EDT Mar 26	2.4ft
Yabucoa Puerto Rico	0853 EDT Mar 26	1.1ft
Fajardo Puerto Rico	0841 EDT Mar 26	1.9ft
Culebra Puerto Rico	0847 EDT Mar 26	1.3ft
Lameshur Bay VI	0853 EDT Mar 26	0.2ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* LOS SIGUIENTES PARAMETROS ESTAN BASADOS EN UNA EVALUACION PRELIMINAR RAPIDA Y PUEDEN VARIAR.

* Magnitud 8.5

* Tiempo de Origen 0800 EDT Marzo 26 2019
 0800 AST Marzo 26 2019
 0700 CDT Marzo 26 2019
 1200 UTC Mar 26 2019

* Coordenadas 19.2 Norte 68.7 Oeste

* Profundidad 14 millas

* Localizacion 125 millas NW de Mayaguez, Puerto Rico

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180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS - ACTUALIZADAS

Las acciones para proteger la vida y propiedad pueden variar dentro de las áreas de advertencia de tsunami.

Si usted esta en un area de advertencia;

- * Salgase del agua, de la playa y alejese de puertos, marinas, bahias, ensenadas y rompeolas.
- * Este alerta y siga las instrucciones de los oficiales locales de manejo de emergencia ya que ellos pueden tener informacion mas detallada o especifica para su ubicacion.
- * Si siente un terremoto fuerte y/o prolongado tome inmediatamente acciones de seguridad como moverse tierra adentro y/o hacia un lugar alto preferiblemente a pie.
- * Operadores de botes,
 - * Cuando el tiempo y las condiciones lo permitan mueva su bote mar adentro a una profundidad de al menos 180 pies.
 - * Si esta navegando evite entrar a aguas someras/llanas, puertos, marinas, bahias, y ensenadas para evitar corrientes fuertes y objetos flotantes o sumergidos.
- * No vaya a la costa para observar el tsunami.
- * No regrese a la costa hasta que los oficiales locales de manejo de emergencia local indiquen que es seguro hacerlo.

Si usted esta en un area de vigilancia;

- * Preparese para tomar accion y este alerta para mas informacion.

IMPACTOS

Los impactos pueden variar en diferentes lugares dentro de las areas de advertencia.

Si usted esta en un area de advertencia;

- * Un tsunami con olas y corrientes fuertes puede ser posible.
- * Olas y corrientes pueden ahogar o herir personas que se encuentran en el agua.
- * Corrientes en playas y puertos, marinas, bahias, y ensenadas pueden ser especialmente peligrosas.
- * Algunos impactos pueden continuar por muchas horas hasta

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dias luego de la llegada de la primera ola.

- * La primera ola puede no ser la mas grande las olas posteriores si.
- * Cada ola puede durar de 5 a 45 minutos entre su embate y retroceso.
- * Costas con frente en todas las direcciones pueden estar en peligro porque las olas pueden dar la vuelta a islas y entrar a bahias.
- * Movimiento fuerte y/o prolongado del suelo indica que un terremoto ha ocurrido un tsunami puede haber sido generado y su llegada inminente.
- * Un rapido retroceso de la linea de costa, olas y sonidos inusuales, y fuertes corrientes son senales de un tsunami.
- * El tsunami puede aparecer como agua moviendose rapidamente hacia mar adentro, una marea suave que se eleva rapidamente sin olas rompientes, como una serie de olas rompientes, o una pared de agua espumosa.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Conference Call #1

NOAK78 PAAQ 261315
ADAAT1

...TSUNAMI TELECONFERENCE IS SCHEDULED...

A TELECONFERENCE CONCERNING THE ONGOING TSUNAMI IS SCHEDULED FOR

- * Atlantic and Gulf of Mexico coastal Weather Forecast Offices
- * Atlantic and Gulf of Mexico coastal state warning points
- * Atlantic and Gulf of Mexico FEMA Regional Offices
- * Atlantic and Gulf of Mexico US Coast Guard District Offices

The teleconference will be led by the National Tsunami Warning Center.

THE TELECONFERENCE WILL BE HELD AT

LANTEX19 Handbook

* 1000 EDT MAR 26 2019
* 1000 AST MAR 26 2019
* 1400 UTC MAR 26 2019

CALL 1-877-708-6816 PASSCODE 2763065#

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NTWC Spanish Bulletin #4

WEXX40 PAAQ 261332
TSUSPA

BULLETIN

Mensaje de Tsunami numero 4
NWS Centro Nacional de Alerta de Tsunami Palmer AK
932 AM AST Tue Mar 26 2019

ACTUALIZACIONES

* Nuevas observaciones

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

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

Advertencia de Tsunami en Efecto para;

* Areas costeras de Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware y New Jersey desde Jupiter Inlet, Florida hasta Sandy Hook, New Jersey

Vigilancia de Tsunami en Efecto para;

* Areas costeras de New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia, Newfoundland y Labrador desde Sandy Hook, New Jersey hasta Cape Chidley, Labrador

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LANTEX19 Handbook

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----	PRONOSTICO DE DURACION DEL TSUNAMI -----	ALTURA MAX PRONOSTICADA DEL TSUNAMI -----
* Florida			
Miami	1045 EDT Mar 26		
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.2- 2.3 pie
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		menos de 1pie
* North Carolina			
Cape Hatteras	1055 EDT Mar 26	15 hrs	1.1- 2.0 pie
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	1.9- 3.6 pie
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 pie
Charleston	1255 EDT Mar 26		menos de 1pie
* Georgia			
Savannah	1300 EDT Mar 26		menos de 1pie
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		
* Newfoundland			
Saint Lawrence	1455 NDT Mar 26		
Bonavista	1635 NDT Mar 26		
* New Brunswick			
Grand Manan Isla	1440 ADT Mar 26		
* Maine			
Portland	1410 EDT Mar 26		
* Labrador			
Battle Harbour	1700 NDT Mar 26		
Cape Makkovik	1635 ADT Mar 26		

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua

LANTEX19 Handbook

mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0853 EDT Mar 26	1.8ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	0902 EDT Mar 26	0.7ft
Vieques Is. north PR	0858 EDT Mar 26	2.4ft
Yabucoa Puerto Rico	0853 EDT Mar 26	1.1ft
Fajardo Puerto Rico	0841 EDT Mar 26	1.9ft
Culebra Puerto Rico	0847 EDT Mar 26	1.3ft
Lameshur Bay VI	0908 EDT Mar 26	1.5ft
Charlotte Amalie VI	0914 EDT Mar 26	1.5ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5
* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
* Coordenadas 19.2 Norte 68.7 Oeste
* Profundidad 14 millas
* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

Las acciones para proteger la vida y propiedad pueden variar dentro de las areas de advertencia de tsunami.

Si usted esta en un area de advertencia;

- * Salgase del agua, de la playa y alejese de puertos, marinas, bahias, ensenadas y rompeolas.
- * Este alerta y siga las instrucciones de los oficiales locales de manejo de emergencia ya que ellos pueden tener informacion mas detallada o especifica para su ubicacion.
- * Si siente un terremoto fuerte y/o prolongado tome inmediatamente acciones de seguridad como moverse tierra adentro y/o hacia un lugar alto preferiblemente a pie.
- * Operadores de botes,
 - * Cuando el tiempo y las condiciones lo permitan mueva su bote mar adentro a una profundidad de al menos 180 pies.

LANTEX19 Handbook

- * Si esta navegando evite entrar a aguas someras/llanas, puertos, marinas, bahias, y ensenadas para evitar corrientes fuertes y objetos flotantes o sumergidos.
- * No vaya a la costa para observar el tsunami.
- * No regrese a la costa hasta que los oficiales locales de manejo de emergencia local indiquen que es seguro hacerlo.

Si usted esta en un area de vigilancia;

- * Preparese para tomar accion y este alerta para mas informacion.

IMPACTOS

Los impactos pueden variar en diferentes lugares dentro de las areas de advertencia.

Si usted esta en un area de advertencia;

- * Un tsunami con olas y corrientes fuertes puede ser posible.
- * Olas y corrientes pueden ahogar o herir personas que se encuentran en el agua.
- * Corrientes en playas y puertos, marinas, bahias, y ensenadas pueden ser especialmente peligrosas.
- * Algunos impactos pueden continuar por muchas horas hasta dias luego de la llegada de la primera ola.
- * La primera ola puede no ser la mas grande las olas posteriores si.
- * Cada ola puede durar de 5 a 45 minutos entre su embate y retroceso.
- * Costas con frente en todas las direcciones pueden estar en peligro porque las olas pueden dar la vuelta a islas y entrar a bahias.
- * Movimiento fuerte y/o prolongado del suelo indica que un terremoto ha ocurrido un tsunami puede haber sido generado y su llegada inminente.
- * Un rapido retroceso de la linea de costa, olas y sonidos inusuales, y fuertes corrientes son senales de un tsunami.
- * El tsunami puede aparecer como agua moviendose rapidamente hacia mar adentro, una marea suave que se eleva rapidamente sin olas rompientes, como una serie de olas rompientes, o una pared de agua espumosa.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

LANTEX19 Handbook

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #5

WEXX40 PAAQ 261405
TSUSPA

BULLETIN

Mensaje de Tsunami numero 5
NWS Centro Nacional de Alerta de Tsunami Palmer AK
1005 AM AST Tue Mar 26 2019

ACTUALIZACIONES

- * Nuevas observaciones

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

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

Advertencia de Tsunami en Efecto para;

- * Areas costeras de Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware y New Jersey desde Jupiter Inlet, Florida hasta Sandy Hook, New Jersey

Vigilancia de Tsunami en Efecto para;

- * Areas costeras de New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia, Newfoundland y Labrador desde Sandy Hook, New Jersey hasta Cape Chidley, Labrador

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

- * Se pronostica que la actividad del tsunami comience en los siguientes puntos a las horas indicadas.

LANTEX19 Handbook

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----	PRONOSTICO DE DURACION DEL TSUNAMI -----	ALTURA MAX PRONOSTICADA DEL TSUNAMI -----
* Florida			
Miami	1045 EDT Mar 26		
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.2- 2.3 pie
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		menos de 1pie
* North Carolina			
Cape Hatteras	1055 EDT Mar 26	15 hrs	1.1- 2.0 pie
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	1.9- 3.6 pie
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 pie
Charleston	1255 EDT Mar 26		menos de 1pie
* Georgia			
Savannah	1300 EDT Mar 26		menos de 1pie
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		
* Newfoundland			
Saint Lawrence	1455 NDT Mar 26		
Bonavista	1635 NDT Mar 26		
* New Brunswick			
Grand Manan Isla	1440 ADT Mar 26		
* Maine			
Portland	1410 EDT Mar 26		
* Labrador			
Battle Harbour	1700 NDT Mar 26		
Cape Makkovik	1635 ADT Mar 26		

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

LANTEX19 Handbook

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	0902 EDT Mar 26	0.7ft
Vieques Is. north PR	0858 EDT Mar 26	2.4ft
Yabucoa Puerto Rico	0937 EDT Mar 26	2.1ft
Fajardo Puerto Rico	0841 EDT Mar 26	1.9ft
Culebra Puerto Rico	0847 EDT Mar 26	1.3ft
Lameshur Bay VI	0954 EDT Mar 26	2.1ft
Charlotte Amalie VI	0958 EDT Mar 26	2.5ft
Bermuda Bermuda	1000 EDT Mar 26	0.4ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5

* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019

* Coordenadas 19.2 Norte 68.7 Oeste

* Profundidad 14 millas

* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 4 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 4 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

* Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.

* Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.

* Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #6

WEXX40 PAAQ 261431
TSUSPA

BULLETIN

Mensaje de Tsunami numero 6
NWS Centro Nacional de Alerta de Tsunami Palmer AK
1031 AM AST Tue Mar 26 2019

ACTUALIZACIONES

- * Modifica las regiones bajo alerta

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

Advertencia de Tsunami en Efecto para;

- * Areas costeras de Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware y New Jersey desde Jupiter Inlet, Florida hasta Sandy Hook, New Jersey
- * Areas costeras de New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia y Newfoundland desde Sandy Hook, New Jersey hasta Strait of Belle Isle, Newfoundland

Alertas en las siguientes areas han sido canceladas porque se ha definido mejor la amenaza en base a informacion y analisis adicional.

- * Watch de Tsunami ha sido Cancelado para areas costeras de Newfoundland y Labrador desde Strait of Belle Isle, Newfoundland hasta Cape Chidley, Labrador

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

- * Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
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LANTEX19 Handbook

* Florida					
Miami	1045	EDT	Mar	26	
Key West	1115	EDT	Mar	26	
Daytona	1200	EDT	Mar	26	15 hrs 1.3- 2.3 pie
Melbourne Beach	1200	EDT	Mar	26	
Jacksonville Bea	1235	EDT	Mar	26	menos de 1pie
* North Carolina					
Cape Hatteras	1055	EDT	Mar	26	15 hrs 1.1- 2.0 pie
* Nova Scotia					
Lockeport	1325	ADT	Mar	26	
Scatarie Island	1425	ADT	Mar	26	
* New York					
Montauk	1230	EDT	Mar	26	
Manhattan	1355	EDT	Mar	26	
* Virginia					
Virginia Beach	1230	EDT	Mar	26	
* New Jersey					
Atlantic City	1235	EDT	Mar	26	24 hrs 1.9- 3.6 pie
* South Carolina					
Myrtle Beach	1245	EDT	Mar	26	15 hrs 1.0- 1.9 pie
Charleston	1255	EDT	Mar	26	menos de 1pie
* Georgia					
Savannah	1300	EDT	Mar	26	menos de 1pie
* Massachusetts					
Nantucket	1305	EDT	Mar	26	
Boston	1430	EDT	Mar	26	
* Newfoundland					
Saint Lawrence	1455	NDT	Mar	26	
Bonavista	1635	NDT	Mar	26	
* New Brunswick					
Grand Manan Isla	1440	ADT	Mar	26	
* Maine					
Portland	1410	EDT	Mar	26	
* Labrador					
Battle Harbour	1700	NDT	Mar	26	
Cape Makkovik	1635	ADT	Mar	26	

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

 * La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

HORA

ALTURA MAX

LANTEX19 Handbook

OBSERVADA	DE LA MEDICION	DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	0902 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	0841 EDT Mar 26	1.9ft
Culebra Puerto Rico	0847 EDT Mar 26	1.3ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	0958 EDT Mar 26	2.5ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud	8.5
* Tiempo de Origen	0800 EDT Marzo 26 2019
	0800 AST Marzo 26 2019
	0700 CDT Marzo 26 2019
	1200 UTC Mar 26 2019
* Coordenadas	19.2 Norte 68.7 Oeste
* Profundidad	14 millas
* Localizacion	125 millas NW de Mayaguez, Puerto Rico
	180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS - ACTUALIZADAS

Las acciones para proteger la vida y propiedad pueden variar dentro de las areas de advertencia de tsunami.

Si usted esta en un area de advertencia;

- * Salgase del agua, de la playa y alejese de puertos, marinas, bahias, ensenadas y rompeolas.
- * Este alerta y siga las instrucciones de los oficiales locales de manejo de emergencia ya que ellos pueden tener informacion mas detallada o especifica para su ubicacion.
- * Si siente un terremoto fuerte y/o prolongado tome inmediatamente acciones de seguridad como moverse tierra adentro y/o hacia un lugar alto preferiblemente a pie.
- * Operadores de botes,
 - * Cuando el tiempo y las condiciones lo permitan mueva su bote mar adentro a una profundidad de al menos 180 pies.
 - * Si esta navegando evite entrar a aguas someras/llanas, puertos, marinas, bahias, y ensenadas para evitar corrientes fuertes y objetos flotantes o sumergidos.

LANTEX19 Handbook

- * No vaya a la costa para observar el tsunami.
- * No regrese a la costa hasta que los oficiales locales de manejo de emergencia local indiquen que es seguro hacerlo.

IMPACTOS

Los impactos pueden variar en diferentes lugares dentro de las áreas de advertencia.

Si usted está en un área de advertencia;

- * Un tsunami con olas y corrientes fuertes puede ser posible.
- * Olas y corrientes pueden ahogar o herir personas que se encuentran en el agua.
- * Corrientes en playas y puertos, marinas, bahías, y ensenadas pueden ser especialmente peligrosas.
- * Algunos impactos pueden continuar por muchas horas hasta días luego de la llegada de la primera ola.
- * La primera ola puede no ser la más grande las olas posteriores sí.
- * Cada ola puede durar de 5 a 45 minutos entre su embate y retroceso.
- * Costas con frente en todas las direcciones pueden estar en peligro porque las olas pueden dar la vuelta a islas y entrar a bahías.
- * Movimiento fuerte y/o prolongado del suelo indica que un terremoto ha ocurrido un tsunami puede haber sido generado y su llegada inminente.
- * Un rápido retroceso de la línea de costa, olas y sonidos inusuales, y fuertes corrientes son señales de un tsunami.
- * El tsunami puede aparecer como agua moviéndose rápidamente hacia mar adentro, una marea suave que se eleva rápidamente sin olas rompientes, como una serie de olas rompientes, o una pared de agua espumosa.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

-
- * Para acceder a información adicional consulte el sitio de internet tsunami.gov.
 - * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacífico en su sitio de internet tsunami.gov.
 - * Este mensaje será actualizado en 30 minutos.

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NTWC Spanish Bulletin #7

WEXX40 PAAQ 261501
TSUSPA

BULLETIN

Mensaje de Tsunami numero 7
NWS Centro Nacional de Alerta de Tsunami Palmer AK
1101 AM AST Tue Mar 26 2019

ACTUALIZACIONES

- * Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

- * Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
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* Florida			
Miami	1045	EDT Mar 26	
Key West	1115	EDT Mar 26	
Daytona	1200	EDT Mar 26	15 hrs 1.3- 2.3 pie
Melbourne Beach	1200	EDT Mar 26	
Jacksonville Bea	1235	EDT Mar 26	menos de 1pie

* North Carolina			
Cape Hatteras	1055	EDT Mar 26	15 hrs 1.1- 2.0 pie

LANTEX19 Handbook

* Nova Scotia
 Lockeport 1325 ADT Mar 26
 Scatarie Island 1425 ADT Mar 26

* New York
 Montauk 1230 EDT Mar 26
 Manhattan 1355 EDT Mar 26

* Virginia
 Virginia Beach 1230 EDT Mar 26

* New Jersey
 Atlantic City 1235 EDT Mar 26 24 hrs 2.0- 3.6 pie

* South Carolina
 Myrtle Beach 1245 EDT Mar 26 15 hrs 1.0- 1.9 pie
 Charleston 1255 EDT Mar 26 menos de 1pie

* Georgia
 Savannah 1300 EDT Mar 26 menos de 1pie

* Massachusetts
 Nantucket 1305 EDT Mar 26
 Boston 1430 EDT Mar 26

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft

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Fajardo Puerto Rico	1046	EDT Mar 26	2.2ft
Culebra Puerto Rico	0847	EDT Mar 26	1.3ft
Lameshur Bay VI	1026	EDT Mar 26	2.5ft
Charlotte Amalie VI	0958	EDT Mar 26	2.5ft
Bermuda Bermuda	1022	EDT Mar 26	1.2ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5
* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
* Coordenadas 19.2 Norte 68.7 Oeste
* Profundidad 14 millas
* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #8

WEXX40 PAAQ 261531
TSUSPA

BULLETIN

Mensaje de Tsunami numero 8
NWS Centro Nacional de Alerta de Tsunami Palmer AK
1131 AM AST Tue Mar 26 2019

ACTUALIZACIONES

* Nuevas observaciones

LANTEX19 Handbook

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a las horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
* Florida			
Miami	1045 EDT Mar 26		
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.3- 2.3 pie
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		menos de 1pie
* North Carolina			
Cape Hatteras	1055 EDT Mar 26	15 hrs	1.1- 2.0 pie
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.6 pie
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 pie
Charleston	1255 EDT Mar 26		menos de 1pie

LANTEX19 Handbook

* Georgia
 Savannah 1300 EDT Mar 26 menos de 1pie

* Massachusetts
 Nantucket 1305 EDT Mar 26
 Boston 1430 EDT Mar 26

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1104 EDT Mar 26	1.5ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	0958 EDT Mar 26	2.5ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5

* Tiempo de Origen 0800 EDT Marzo 26 2019
 0800 AST Marzo 26 2019
 0700 CDT Marzo 26 2019
 1200 UTC Mar 26 2019

* Coordenadas 19.2 Norte 68.7 Oeste

* Profundidad 14 millas

LANTEX19 Handbook

* Localizacion 125 millas NW de Mayaguez, Puerto Rico
 180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #9

WEXX40 PAAQ 261600
TSUSPA

BULLETIN
Mensaje de Tsunami numero 9
NWS Centro Nacional de Alerta de Tsunami Palmer AK
1200 PM AST Tue Mar 26 2019

ACTUALIZACIONES

* Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo

LANTEX19 Handbook

evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----	PRONOSTICO DE DURACION DEL TSUNAMI -----	ALTURA MAX PRONOSTICADA DEL TSUNAMI -----
* Florida			
Key West	1115 EDT Mar 26		
Daytona	1200 EDT Mar 26	15 hrs	1.3- 2.3 pie
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		menos de 1pie
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.7 pie
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 pie
Charleston	1255 EDT Mar 26		menos de 1pie
* Georgia			
Savannah	1300 EDT Mar 26		menos de 1pie
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		
* Newfoundland			
Saint Lawrence	1455 NDT Mar 26		
Bonavista	1635 NDT Mar 26		
* New Brunswick			
Grand Manan Isla	1440 ADT Mar 26		
* Maine			
Portland	1410 EDT Mar 26		
* Labrador			
Battle Harbour	1700 NDT Mar 26		
Cape Makkovik	1635 ADT Mar 26		

LANTEX19 Handbook

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penueles Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1104 EDT Mar 26	1.5ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	0958 EDT Mar 26	2.5ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1141 EDT Mar 26	0.1ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5
* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
* Coordenadas 19.2 Norte 68.7 Oeste
* Profundidad 14 millas
* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

LANTEX19 Handbook

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Conference Call #2

NOAK78 PAAQ 261615
ADAAT1

...TSUNAMI TELECONFERENCE IS SCHEDULED...

A TELECONFERENCE CONCERNING THE ONGOING TSUNAMI IS SCHEDULED FOR

- * Atlantic and Gulf of Mexico coastal Weather Forecast Offices
- * Atlantic and Gulf of Mexico coastal state warning points
- * Atlantic and Gulf of Mexico FEMA Regional Offices
- * Atlantic and Gulf of Mexico US Coast Guard District Offices

The teleconference will be led by the National Tsunami Warning Center.

THE TELECONFERENCE WILL BE HELD AT

- * 1300 EDT MAR 26 2019
- * 1300 AST MAR 26 2019
- * 1700 UTC MAR 26 2019

CALL 1-877-708-6816 PASSCODE 2763065#

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NTWC Spanish Bulletin #10

WEXX40 PAAQ 261631
TSUSPA

BULLETIN

Mensaje de Tsunami numero 10
NWS Centro Nacional de Alerta de Tsunami Palmer AK
1231 PM AST Tue Mar 26 2019

ACTUALIZACIONES

- * Nuevas observaciones

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

LANTEX19 Handbook

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----	PRONOSTICO DE DURACION DEL TSUNAMI -----	ALTURA MAX PRONOSTICADA DEL TSUNAMI -----
* Florida			
Daytona	1200 EDT Mar 26	15 hrs	1.3- 2.4 pie
Melbourne Beach	1200 EDT Mar 26		
Jacksonville Bea	1235 EDT Mar 26		menos de 1pie
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.7 pie
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 pie
Charleston	1255 EDT Mar 26		menos de 1pie
* Georgia			
Savannah	1300 EDT Mar 26		menos de 1pie
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		

LANTEX19 Handbook

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1141 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5
 * Tiempo de Origen 0800 EDT Marzo 26 2019
 0800 AST Marzo 26 2019
 0700 CDT Marzo 26 2019
 1200 UTC Mar 26 2019

LANTEX19 Handbook

* Coordenadas 19.2 Norte 68.7 Oeste
* Profundidad 14 millas
* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #11

WEXX40 PAAQ 261703
TSUSPA

BULLETIN
Mensaje de Tsunami numero 11
NWS Centro Nacional de Alerta de Tsunami Palmer AK
103 PM AST Tue Mar 26 2019

ACTUALIZACIONES

* Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

LANTEX19 Handbook

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a las horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
* Florida			
Jacksonville Bea	1235 EDT Mar 26		menos de 1pie
* Nova Scotia			
Lockeport	1325 ADT Mar 26		
Scatarie Island	1425 ADT Mar 26		
* New York			
Montauk	1230 EDT Mar 26		
Manhattan	1355 EDT Mar 26		
* Virginia			
Virginia Beach	1230 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.7 pie
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 pie
Charleston	1255 EDT Mar 26		menos de 1pie
* Georgia			
Savannah	1300 EDT Mar 26		menos de 1pie
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		
* Newfoundland			
Saint Lawrence	1455 NDT Mar 26		
Bonavista	1635 NDT Mar 26		
* New Brunswick			
Grand Manan Isla	1440 ADT Mar 26		
* Maine			
Portland	1410 EDT Mar 26		
* Labrador			
Battle Harbour	1700 NDT Mar 26		
Cape Makkovik	1635 ADT Mar 26		

LANTEX19 Handbook

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1141 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1257 EDT Mar 26	0.6ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Chesapeake Bridge VA	1300 EDT Mar 26	0.4ft
Halifax Nova Scotia	1256 EDT Mar 26	1.0ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5

* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019

* Coordenadas 19.2 Norte 68.7 Oeste

* Profundidad 14 millas

* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

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IMPACTOS

- * Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #12

WEXX40 PAAQ 261731
TSUSPA

BULLETIN

Mensaje de Tsunami numero 12
NWS Centro Nacional de Alerta de Tsunami Palmer AK
131 PM AST Tue Mar 26 2019

ACTUALIZACIONES

- * Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

- * Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LANTEX19 Handbook

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----	PRONOSTICO DE DURACION DEL TSUNAMI -----	ALTURA MAX PRONOSTICADA DEL TSUNAMI -----
* Florida			
Jacksonville Bea	1235 EDT Mar 26		menos de 1pie
* Nova Scotia			
Scatarie Island	1425 ADT Mar 26		
* New York			
Manhattan	1355 EDT Mar 26		
* New Jersey			
Atlantic City	1235 EDT Mar 26	24 hrs	2.0- 3.7 pie
* South Carolina			
Myrtle Beach	1245 EDT Mar 26	15 hrs	1.0- 1.9 pie
Charleston	1255 EDT Mar 26		menos de 1pie
* Georgia			
Savannah	1300 EDT Mar 26		menos de 1pie
* Massachusetts			
Nantucket	1305 EDT Mar 26		
Boston	1430 EDT Mar 26		
* Newfoundland			
Saint Lawrence	1455 NDT Mar 26		
Bonavista	1635 NDT Mar 26		
* New Brunswick			
Grand Manan Isla	1440 ADT Mar 26		
* Maine			
Portland	1410 EDT Mar 26		
* Labrador			
Battle Harbour	1700 NDT Mar 26		
Cape Makkovik	1635 ADT Mar 26		

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA -----	HORA DE LA MEDICION -----	ALTURA MAX DEL TSUNAMI LUGAR -----
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft

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Christiansted VI	1054	EDT Mar 26	0.7ft
Vieques Is. north PR	1014	EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013	EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046	EDT Mar 26	2.2ft
Culebra Puerto Rico	1206	EDT Mar 26	1.8ft
Lameshur Bay VI	1026	EDT Mar 26	2.5ft
Charlotte Amalie VI	1201	EDT Mar 26	3.8ft
Bermuda Bermuda	1022	EDT Mar 26	1.2ft
Virginia Key Florida	1141	EDT Mar 26	0.1ft
Key West Florida	1216	EDT Mar 26	0.2ft
Oregon Inlet NC	1136	EDT Mar 26	0.6ft
Vaca Key Florida	1219	EDT Mar 26	0.2ft
Beaufort North Carolina	1159	EDT Mar 26	0.7ft
Port Canaveral Florida	1143	EDT Mar 26	1.5ft
Duck North Carolina	1154	EDT Mar 26	2.5ft
Ocean City Maryland	1223	EDT Mar 26	1.8ft
Wrightsville Beach NC	1225	EDT Mar 26	2.2ft
Montauk New York	1318	EDT Mar 26	0.9ft
Atlantic City NJ	1247	EDT Mar 26	2.9ft
Lewes Delaware	1303	EDT Mar 26	0.8ft
Springmaid Pier SC	1303	EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300	EDT Mar 26	0.4ft
Woods Hole MA	1316	EDT Mar 26	0.6ft
Newport Rhode Island	1305	EDT Mar 26	1.0ft
Charleston SC	1303	EDT Mar 26	0.3ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1314	EDT Mar 26	0.3ft
Halifax Nova Scotia	1256	EDT Mar 26	1.0ft
Quonset Point RI	1324	EDT Mar 26	0.7ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud	8.5
* Tiempo de Origen	0800 EDT Marzo 26 2019
	0800 AST Marzo 26 2019
	0700 CDT Marzo 26 2019
	1200 UTC Mar 26 2019
* Coordenadas	19.2 Norte 68.7 Oeste
* Profundidad	14 millas
* Localizacion	125 millas NW de Mayaguez, Puerto Rico
	180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

- * Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

- * Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de

LANTEX19 Handbook

internet tsunami.gov.

* Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.

* Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #13

WEXX40 PAAQ 261800
TSUSPA

BULLETIN
Mensaje de Tsunami numero 13
NWS Centro Nacional de Alerta de Tsunami Palmer AK
200 PM AST Tue Mar 26 2019

ACTUALIZACIONES

* Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

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

* Nova Scotia
Scatarie Island 1425 ADT Mar 26

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* New York
 Manhattan 1355 EDT Mar 26

* Massachusetts
 Nantucket 1305 EDT Mar 26
 Boston 1430 EDT Mar 26

* Newfoundland
 Saint Lawrence 1455 NDT Mar 26
 Bonavista 1635 NDT Mar 26

* New Brunswick
 Grand Manan Isla 1440 ADT Mar 26

* Maine
 Portland 1410 EDT Mar 26

* Labrador
 Battle Harbour 1700 NDT Mar 26
 Cape Makkovik 1635 ADT Mar 26

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1141 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Lewes Delaware	1303 EDT Mar 26	0.8ft
Springmaid Pier SC	1303 EDT Mar 26	1.4ft

LANTEX19 Handbook

Chesapeake Bridge VA	1300	EDT Mar 26	0.4ft
Woods Hole MA	1316	EDT Mar 26	0.6ft
Newport Rhode Island	1305	EDT Mar 26	1.0ft
Fernandina Beach FL	1349	EDT Mar 26	0.2ft
Charleston SC	1303	EDT Mar 26	0.3ft
Sandy Hook New Jersey	1336	EDT Mar 26	0.1ft
Nantucket Massachusetts	1347	EDT Mar 26	0.5ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1314	EDT Mar 26	0.3ft
Halifax Nova Scotia	1256	EDT Mar 26	1.0ft
Cutler NAS Maine	1339	EDT Mar 26	0.2ft
Quonset Point RI	1324	EDT Mar 26	0.7ft
Bar Harbor Maine	1342	EDT Mar 26	0.4ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5
* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
* Coordenadas 19.2 Norte 68.7 Oeste
* Profundidad 14 millas
* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

* Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
* Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
* Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #14

WEXX40 PAAQ 261830
TSUSPA

BULLETIN

LANTEX19 Handbook

Mensaje de Tsunami numero 14
NWS Centro Nacional de Alerta de Tsunami Palmer AK
230 PM AST Tue Mar 26 2019

ACTUALIZACIONES

* Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
-----	-----	-----	-----
* New York Manhattan	1355 EDT Mar 26		
* Massachusetts Boston	1430 EDT Mar 26		
* Newfoundland Bonavista	1635 NDT Mar 26		
* New Brunswick Grand Manan Isla	1440 ADT Mar 26		
* Maine Portland	1410 EDT Mar 26		
* Labrador Battle Harbour	1700 NDT Mar 26		
Cape Makkovik	1635 ADT Mar 26		

LANTEX19 Handbook

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1141 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Lewes Delaware	1303 EDT Mar 26	0.8ft
Springmaid Pier SC	1303 EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300 EDT Mar 26	0.4ft
Woods Hole MA	1316 EDT Mar 26	0.6ft
Newport Rhode Island	1305 EDT Mar 26	1.0ft
Fernandina Beach FL	1349 EDT Mar 26	0.2ft
Charleston SC	1303 EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405 EDT Mar 26	0.3ft
Nantucket Massachusetts	1347 EDT Mar 26	0.5ft
Cape May New Jersey	1316 EDT Mar 26	0.6ft
Kiptopeke Virginia	1314 EDT Mar 26	0.3ft
Halifax Nova Scotia	1256 EDT Mar 26	1.0ft
Cutler NAS Maine	1339 EDT Mar 26	0.2ft
Quonset Point RI	1324 EDT Mar 26	0.7ft
The US/Canada Border US	1423 EDT Mar 26	0.1ft
Bar Harbor Maine	1342 EDT Mar 26	0.4ft
Fort Point NH	1410 EDT Mar 26	0.5ft
Manhattan New York	1412 EDT Mar 26	0.3ft
Wells Maine	1409 EDT Mar 26	0.4ft

PARAMETROS PRELIMINARES DEL TERREMOTO

LANTEX19 Handbook

* Magnitud 8.5
* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
* Coordenadas 19.2 Norte 68.7 Oeste
* Profundidad 14 millas
* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #15

WEXX40 PAAQ 261900
TSUSPA

BULLETIN

Mensaje de Tsunami numero 15
NWS Centro Nacional de Alerta de Tsunami Palmer AK
300 PM AST Tue Mar 26 2019

ACTUALIZACIONES

* Nuevas observaciones

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

Advertencia de Tsunami en Efecto para;

- * Areas costeras de Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware, New Jersey, New

LANTEX19 Handbook

York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
* Massachusetts			
Boston	1430	EDT Mar 26	
* Newfoundland			
Bonavista	1635	NDT Mar 26	
* Maine			
Portland	1410	EDT Mar 26	
* Labrador			
Battle Harbour	1700	NDT Mar 26	
Cape Makkovik	1635	ADT Mar 26	

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft

LANTEX19 Handbook

Bermuda Bermuda	1022	EDT Mar 26	1.2ft
Virginia Key Florida	1141	EDT Mar 26	0.1ft
Key West Florida	1216	EDT Mar 26	0.2ft
Oregon Inlet NC	1136	EDT Mar 26	0.6ft
Vaca Key Florida	1219	EDT Mar 26	0.2ft
Beaufort North Carolina	1159	EDT Mar 26	0.7ft
Port Canaveral Florida	1143	EDT Mar 26	1.5ft
Duck North Carolina	1154	EDT Mar 26	2.5ft
Ocean City Maryland	1223	EDT Mar 26	1.8ft
Wrightsville Beach NC	1225	EDT Mar 26	2.2ft
Montauk New York	1318	EDT Mar 26	0.9ft
Atlantic City NJ	1247	EDT Mar 26	2.9ft
Lewes Delaware	1303	EDT Mar 26	0.8ft
Springmaid Pier SC	1303	EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300	EDT Mar 26	0.4ft
Woods Hole MA	1316	EDT Mar 26	0.6ft
Newport Rhode Island	1305	EDT Mar 26	1.0ft
Fernandina Beach FL	1349	EDT Mar 26	0.2ft
Charleston SC	1303	EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405	EDT Mar 26	0.3ft
Nantucket Massachusetts	1500	EDT Mar 26	0.7ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1439	EDT Mar 26	0.3ft
Halifax Nova Scotia	1256	EDT Mar 26	1.0ft
Cutler NAS Maine	1339	EDT Mar 26	0.2ft
Quonset Point RI	1324	EDT Mar 26	0.7ft
Windmill Point Virginia	1452	EDT Mar 26	0.1ft
The US/Canada Border US	1423	EDT Mar 26	0.1ft
Bar Harbor Maine	1342	EDT Mar 26	0.4ft
Fort Point NH	1410	EDT Mar 26	0.5ft
Manhattan New York	1412	EDT Mar 26	0.3ft
Ship John Shoal NJ	1443	EDT Mar 26	0.0ft
Wells Maine	1457	EDT Mar 26	0.6ft
New Haven Connecticut	1436	EDT Mar 26	0.2ft
Yorktown Virginia	1434	EDT Mar 26	0.2ft
Bridgeport Connecticut	1456	EDT Mar 26	0.1ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud	8.5	
* Tiempo de Origen	0800 EDT Marzo 26 2019	
	0800 AST Marzo 26 2019	
	0700 CDT Marzo 26 2019	
	1200 UTC Mar 26 2019	
* Coordenadas	19.2 Norte 68.7 Oeste	
* Profundidad	14 millas	
* Localizacion	125 millas NW de Mayaguez, Puerto Rico	
	180 millas NW de San Juan, Puerto Rico	

ACCIONES RECOMENDADAS

- * Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

LANTEX19 Handbook

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Conference Call #3

NOAK78 PAAQ 261915
ADAAT1

...TSUNAMI TELECONFERENCE IS SCHEDULED...

A TELECONFERENCE CONCERNING THE ONGOING TSUNAMI IS SCHEDULED FOR

- * Atlantic and Gulf of Mexico coastal Weather Forecast Offices
- * Atlantic and Gulf of Mexico coastal state warning points
- * Atlantic and Gulf of Mexico FEMA Regional Offices
- * Atlantic and Gulf of Mexico US Coast Guard District Offices

The teleconference will be led by the National Tsunami Warning Center.

THE TELECONFERENCE WILL BE HELD AT

- * 1600 EDT MAR 26 2019
- * 1600 AST MAR 26 2019
- * 2000 UTC MAR 26 2019

CALL 1-877-708-6816 PASSCODE 2763065#

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NTWC Spanish Bulletin #16

WEXX40 PAAQ 261931
TSUSPA

BULLETIN

Mensaje de Tsunami numero 16
NWS Centro Nacional de Alerta de Tsunami Palmer AK
331 PM AST Tue Mar 26 2019

LANTEX19 Handbook

ACTUALIZACIONES

- * Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

- * Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
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* Newfoundland			
Bonavista	1635	NDT Mar 26	

* Labrador			
Battle Harbour	1700	NDT Mar 26	
Cape Makkovik	1635	ADT Mar 26	

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

- * La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft

LANTEX19 Handbook

Christiansted VI	1054	EDT Mar 26	0.7ft
Vieques Is. north PR	1014	EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013	EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046	EDT Mar 26	2.2ft
Culebra Puerto Rico	1206	EDT Mar 26	1.8ft
Lameshur Bay VI	1026	EDT Mar 26	2.5ft
Charlotte Amalie VI	1201	EDT Mar 26	3.8ft
Bermuda Bermuda	1022	EDT Mar 26	1.2ft
Virginia Key Florida	1141	EDT Mar 26	0.1ft
Key West Florida	1216	EDT Mar 26	0.2ft
Oregon Inlet NC	1136	EDT Mar 26	0.6ft
Vaca Key Florida	1219	EDT Mar 26	0.2ft
Beaufort North Carolina	1159	EDT Mar 26	0.7ft
Port Canaveral Florida	1143	EDT Mar 26	1.5ft
Duck North Carolina	1154	EDT Mar 26	2.5ft
Ocean City Maryland	1223	EDT Mar 26	1.8ft
Wrightsville Beach NC	1225	EDT Mar 26	2.2ft
Montauk New York	1318	EDT Mar 26	0.9ft
Atlantic City NJ	1247	EDT Mar 26	2.9ft
Lewes Delaware	1303	EDT Mar 26	0.8ft
Springmaid Pier SC	1303	EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300	EDT Mar 26	0.4ft
Woods Hole MA	1316	EDT Mar 26	0.6ft
Newport Rhode Island	1305	EDT Mar 26	1.0ft
Fernandina Beach FL	1349	EDT Mar 26	0.2ft
Charleston SC	1303	EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405	EDT Mar 26	0.3ft
Nantucket Massachusetts	1500	EDT Mar 26	0.7ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1439	EDT Mar 26	0.3ft
Halifax Nova Scotia	1256	EDT Mar 26	1.0ft
Panama City Florida	1529	EDT Mar 26	0.0ft
Cutler NAS Maine	1515	EDT Mar 26	0.6ft
Quonset Point RI	1324	EDT Mar 26	0.7ft
Windmill Point Virginia	1452	EDT Mar 26	0.1ft
The US/Canada Border US	1423	EDT Mar 26	0.1ft
Bar Harbor Maine	1501	EDT Mar 26	1.2ft
Fort Point NH	1410	EDT Mar 26	0.5ft
Manhattan New York	1412	EDT Mar 26	0.3ft
Ship John Shoal NJ	1520	EDT Mar 26	0.1ft
Wells Maine	1457	EDT Mar 26	0.6ft
New Haven Connecticut	1436	EDT Mar 26	0.2ft
Yorktown Virginia	1434	EDT Mar 26	0.2ft
Bridgeport Connecticut	1456	EDT Mar 26	0.1ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud	8.5	
* Tiempo de Origen	0800 EDT Marzo 26 2019	
	0800 AST Marzo 26 2019	
	0700 CDT Marzo 26 2019	
	1200 UTC Mar 26 2019	
* Coordenadas	19.2 Norte 68.7 Oeste	
* Profundidad	14 millas	
* Localizacion	125 millas NW de Mayaguez, Puerto Rico	
	180 millas NW de San Juan, Puerto Rico	

LANTEX19 Handbook

ACCIONES RECOMENDADAS

- * Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

- * Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #17

WEXX40 PAAQ 262000
TSUSPA

BULLETIN

Mensaje de Tsunami numero 17
NWS Centro Nacional de Alerta de Tsunami Palmer AK
400 PM AST Tue Mar 26 2019

ACTUALIZACIONES

- * Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

LANTEX19 Handbook

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a las horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
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* Newfoundland
Bonavista 1635 NDT Mar 26

* Labrador
Battle Harbour 1700 NDT Mar 26
Cape Makkovik 1635 ADT Mar 26

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1533 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Lewes Delaware	1303 EDT Mar 26	0.8ft
Springmaid Pier SC	1303 EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300 EDT Mar 26	0.4ft
Woods Hole MA	1316 EDT Mar 26	0.6ft

LANTEX19 Handbook

Newport Rhode Island	1305	EDT Mar 26	1.0ft
Fernandina Beach FL	1349	EDT Mar 26	0.2ft
Charleston SC	1303	EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405	EDT Mar 26	0.3ft
Nantucket Massachusetts	1500	EDT Mar 26	0.7ft
Cape May New Jersey	1316	EDT Mar 26	0.6ft
Kiptopeke Virginia	1439	EDT Mar 26	0.3ft
Halifax Nova Scotia	1544	EDT Mar 26	1.0ft
Panama City Florida	1529	EDT Mar 26	0.0ft
Cutler NAS Maine	1551	EDT Mar 26	1.2ft
Quonset Point RI	1324	EDT Mar 26	0.7ft
Windmill Point Virginia	1452	EDT Mar 26	0.1ft
The US/Canada Border US	1532	EDT Mar 26	0.2ft
Bar Harbor Maine	1501	EDT Mar 26	1.2ft
Fort Point NH	1410	EDT Mar 26	0.5ft
Manhattan New York	1412	EDT Mar 26	0.3ft
Ship John Shoal NJ	1520	EDT Mar 26	0.1ft
Wells Maine	1457	EDT Mar 26	0.6ft
New Haven Connecticut	1436	EDT Mar 26	0.2ft
Yorktown Virginia	1434	EDT Mar 26	0.2ft
Bridgeport Connecticut	1456	EDT Mar 26	0.1ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5
* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
* Coordenadas 19.2 Norte 68.7 Oeste
* Profundidad 14 millas
* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #18

WEXX40 PAAQ 262030
TSUSPA

BULLETIN

Mensaje de Tsunami numero 18
NWS Centro Nacional de Alerta de Tsunami Palmer AK
430 PM AST Tue Mar 26 2019

ACTUALIZACIONES

* Nuevas observaciones

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

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 y Newfoundland desde Jupiter Inlet, Florida hasta Strait of Belle Isle, Newfoundland

Para otras costas del Pacifico de los Estados Unidos y Canada en Norte America, el nivel de amenaza de tsunami esta siendo evaluado. Se proveera informacion adicional en mensajes suplementarios.

PRONOSTICOS DEL TSUNAMI

* Se pronostica que la actividad del tsunami comience en los siguientes puntos a loas horas indicadas.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI	PRONOSTICO DE DURACION DEL TSUNAMI	ALTURA MAX PRONOSTICADA DEL TSUNAMI
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* Labrador
Cape Makkovik 1635 ADT Mar 26

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

HORA ALTURA MAX

LANTEX19 Handbook

OBSERVADA	DE LA MEDICION	DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
Arecibo Puerto Rico	0815 EDT Mar 26	6.7ft
Mayaguez Puerto Rico	0827 EDT Mar 26	6.6ft
San Juan TG Puerto Rico	0826 EDT Mar 26	0.8ft
Magueyes Island PR	0941 EDT Mar 26	2.6ft
Penuelas Puerto Rico	0855 EDT Mar 26	2.1ft
Christiansted VI	1054 EDT Mar 26	0.7ft
Vieques Is. north PR	1014 EDT Mar 26	3.0ft
Yabucoa Puerto Rico	1013 EDT Mar 26	2.9ft
Fajardo Puerto Rico	1046 EDT Mar 26	2.2ft
Culebra Puerto Rico	1206 EDT Mar 26	1.8ft
Lameshur Bay VI	1026 EDT Mar 26	2.5ft
Charlotte Amalie VI	1201 EDT Mar 26	3.8ft
Bermuda Bermuda	1022 EDT Mar 26	1.2ft
Virginia Key Florida	1533 EDT Mar 26	0.1ft
Key West Florida	1216 EDT Mar 26	0.2ft
Oregon Inlet NC	1136 EDT Mar 26	0.6ft
Vaca Key Florida	1219 EDT Mar 26	0.2ft
Beaufort North Carolina	1159 EDT Mar 26	0.7ft
Port Canaveral Florida	1143 EDT Mar 26	1.5ft
Duck North Carolina	1154 EDT Mar 26	2.5ft
Ocean City Maryland	1223 EDT Mar 26	1.8ft
Wrightsville Beach NC	1225 EDT Mar 26	2.2ft
Montauk New York	1318 EDT Mar 26	0.9ft
Atlantic City NJ	1247 EDT Mar 26	2.9ft
Lewes Delaware	1303 EDT Mar 26	0.8ft
Springmaid Pier SC	1303 EDT Mar 26	1.4ft
Chesapeake Bridge VA	1300 EDT Mar 26	0.4ft
Woods Hole MA	1316 EDT Mar 26	0.6ft
Newport Rhode Island	1305 EDT Mar 26	1.0ft
Fernandina Beach FL	1349 EDT Mar 26	0.2ft
Charleston SC	1303 EDT Mar 26	0.3ft
Sandy Hook New Jersey	1405 EDT Mar 26	0.3ft
Nantucket Massachusetts	1500 EDT Mar 26	0.7ft
Cape May New Jersey	1316 EDT Mar 26	0.6ft
Kiptopeke Virginia	1439 EDT Mar 26	0.3ft
Halifax Nova Scotia	1544 EDT Mar 26	1.0ft
Panama City Florida	1529 EDT Mar 26	0.0ft
Cutler NAS Maine	1551 EDT Mar 26	1.2ft
Quonset Point RI	1324 EDT Mar 26	0.7ft
Windmill Point Virginia	1452 EDT Mar 26	0.1ft
The US/Canada Border US	1532 EDT Mar 26	0.2ft
Bar Harbor Maine	1501 EDT Mar 26	1.2ft
Fort Point NH	1606 EDT Mar 26	0.8ft
Manhattan New York	1412 EDT Mar 26	0.3ft
Ship John Shoal NJ	1520 EDT Mar 26	0.1ft
Wells Maine	1457 EDT Mar 26	0.6ft
New Haven Connecticut	1436 EDT Mar 26	0.2ft
Yorktown Virginia	1434 EDT Mar 26	0.2ft
Bridgeport Connecticut	1456 EDT Mar 26	0.1ft

PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud 8.5

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* Tiempo de Origen 0800 EDT Marzo 26 2019
0800 AST Marzo 26 2019
0700 CDT Marzo 26 2019
1200 UTC Mar 26 2019
* Coordenadas 19.2 Norte 68.7 Oeste
* Profundidad 14 millas
* Localizacion 125 millas NW de Mayaguez, Puerto Rico
180 millas NW de San Juan, Puerto Rico

ACCIONES RECOMENDADAS

* Ver mensaje numero 6 para acciones recomendadas.

IMPACTOS

* Ver mensaje numero 6 para posibles impactos.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones costeras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este mensaje sera actualizado en 30 minutos.

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NTWC Spanish Bulletin #19 - #31

En este punto, el frente de onda se ha movido hacia el norte más allá de la frontera de Estados Unidos y Canadá y los boletines emitidos son de naturaleza similar al boletín #18.

NTWC Spanish Bulletin #32

WEXX40 PAAQ 270300
TSUSPA

BULLETIN

Mensaje de Tsunami numero 32
NWS Centro Nacional de Alerta de Tsunami Palmer AK
1100 PM AST Tue Mar 26 2019

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

- * Advisory 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,

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Maine, New Brunswick, Nova Scotia y Newfoundland

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* La altura maxima observada del tsunami es el nivel de agua mas alto registrado sobre el nivel de la marea hasta la emision de este mensaje.

OBSERVADA	HORA DE LA MEDICION	ALTURA MAX DEL TSUNAMI LUGAR
Aguadilla Puerto Rico	0811 EDT Mar 26	6.9ft
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Wells Maine	1457	EDT Mar 26	0.6ft
New Haven Connecticut	1436	EDT Mar 26	0.2ft
Yorktown Virginia	1434	EDT Mar 26	0.2ft
Bridgeport Connecticut	1456	EDT Mar 26	0.1ft

ACCIONES RECOMENDADAS - ACTUALIZADAS

- * No regresen a zonas desalojadas hasta que las autoridades locales de manejo de emergencia indiquen que es seguro hacerlo.

IMPACTOS - ACTUALIZADOS

- * Un tsunami fue generado durante este evento pero ya no representa un peligro.
- * Algunas areas podran seguir viendo pequenos cambios del nivel del mar.
- * La determinacion para volver a ocupar zonas de peligro debe ser hecha por autoridades locales.

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

- * Para acceder a informacion adicional consulte el sitio de internet tsunami.gov.
- * Regiones consteras del Caribe deben consultar los mensajes emitidos por el Centro de Alerta de Tsunami del Pacifico en su sitio de internet tsunami.gov.
- * Este sera el ultimo boletin proveniente del Centro Nacional de Alerta de Tsunami de los Estados Unidos para este evento.

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Appendix E. Sample Press Release for Local Media

TEMPLATE FOR NEWS RELEASE

USE AGENCY MASTHEAD

Contact: (insert name)
(insert phone number)
(insert email address)

FOR IMMEDIATE RELEASE
(insert date)

ATLANTIC TSUNAMI EXERCISE TO BE CONDUCTED MARCH 26, 2019

(insert community/county/state name) will join other localities in the northwest Atlantic as a participant in a tsunami response exercise on March 26, 2019. The purpose of this exercise is to evaluate local tsunami response plans, increase tsunami preparedness, and improve coordination throughout the region.

(insert a promotional comment from a local official, such as “The 2004 Indian Ocean tsunami brought to the attention of the world 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 LANTEX19, will simulate a widespread Tsunami Advisory and Watch situation along U.S. and Canadian east coasts in the northwest Atlantic requiring implementation of local tsunami response plans. It is the eleventh such exercise including all Atlantic states, provinces, territories, and commonwealths. The exercise will *(insert “include” or “not include”)* public notification.

The exercise will simulate a major earthquake and tsunami generated 125 miles northwest of Mayaguez, Puerto Rico at 19.2°N, 68.7°W occurring on March 26, 2019 at 0800 Eastern Daylight Time *(or appropriate local time)*. Exercise participants will be provided with a handbook which describes the scenario and contains tsunami messages from the National Tsunami Warning Center (NTWC). The NTWC is responsible for providing tsunami warning messages to the Atlantic coasts of U.S. and Canada, as well as the Gulf of Mexico coast.

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 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. For more information on the NTHMP, see nthmp.tsunami.gov.

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On the Web:

National Tsunami Warning Center

<http://NTWC.arh.noaa.gov>

NOAA Tsunami Program

<http://www.tsunami.gov>

NTHMP:

<http://nthmp.tsunami.gov>

Insert state/local emergency response URLs