

# Exercise

# LANTEX 18

## Participant Handbook

An Atlantic tsunami warning exercise  
March 21, 2018

National Tsunami Hazard Mitigation Program  
Warning Coordination Subcommittee



## LANTEX 18 Exercise Handbook

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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LANTEX18 - Exercise

## 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 90 miles south of Nantucket, MA and 170 miles southeast of Boston, MA. at 40.0°N, 70.0°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 LANTEX 18.

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 7.5 earthquake located 90 miles south of Nantucket, MA. and 170 miles southeast of Boston, MA at 40.0°N, 70.0°W. The earthquake occurs at 1300UTC on March 21, 2018 and immediately triggers a 100 cubic km underwater slide of sediment, sliding south from 40.0°N, 70.0°W at a maximum of 50 meters/second. The slide width is 30km and the block length is 20km. The earthquake uplift does not generate a significant tsunami, but the slide generates a destructive tsunami along some portions of the east coast and in Puerto Rico and the Virgin Islands (tsunami amplitudes over 1.5 m). A moderate, though damaging, tsunami is observed along other portions the U.S. and Canadian Atlantic coast (tsunami amplitudes 0.5 to 1.5 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 warning is issued for the epicentral region, then expanded to include most of the U.S./Canada east coast as well as Puerto Rico and the Virgin Islands. An advisory is issued for the Gulf of Mexico, Labrador, and parts of Newfoundland. Appendix B shows expected tsunami amplitudes along the coast from the slide. 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 1305UTC on March 21, 2018. 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 13-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 7.5 earthquake with epicenter at 40°N, 70°W occurring on March 21, 2018 at 1300UTC.

Date (UTC)	Time (UTC)	NTWC Message		
		#	Type	Dummy
03/21/2018	1300	Earthquake occurs		
03/21/2018	1305	01	WWA	Yes
03/21/2018	1337	02	WWA	No
03/21/2018	1410	03	WWA	No
03/21/2018	1435	04	WWA	No
03/21/2018	1506	05	WWA	No
03/21/2018	1540	06	WWA	No
03/21/2018	1610	07	WWA	No
03/21/2018	1650	08	WWA	No
03/21/2018	1712	09	WWA	No
03/21/2018	1742	10	WWA	No
03/21/2018	1807	11	WWA	No
03/21/2018	1905	12	WWA	No
03/21/2018	2008	13	WWA	No
03/21/2018	2105	14	WWA	No
03/21/2018	2205	15	WWA	No
03/21/2018	2307	16	WWA	No
03/22/2018	0005	17	WWA	No
03/22/2018	0105	18	WWA	No
03/22/2018	0205	19	Can	No

**NTWC Message Types:**

WWA Warning/Watch/Advisory  
 Can WWA 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	Fax	Email
NTWC	WEXX20 PAAQ	TSUAT1	Yes	Yes	Yes	Yes	Yes

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

**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 “LANTEX 18” 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>
Paul Huang, NTWC TWSO	907-745-4212	<a href="mailto:paul.huang@noaa.gov">paul.huang@noaa.gov</a>
James Waddell, NTWC Rep.	907-745-4212	<a href="mailto:james.waddell@noaa.gov">james.waddell@noaa.gov</a>
Christa von Hillebrandt, NWS CTWP Manager	787-833-8433	<a href="mailto:christa.vonh@noaa.gov">christa.vonh@noaa.gov</a>
Walt Zaleski, NWS Southern Region	817-978-1100x106	<a href="mailto:walt.zaleski@noaa.gov">walt.zaleski@noaa.gov</a>
Charles McCreery, PTWC Director	808-725-6380	<a href="mailto:Charles.mccreery@noaa.gov">Charles.mccreery@noaa.gov</a>
Jeff Waldstreicher, NWS Eastern Region	631-244-0131	<a href="mailto:jeff.waldstreicher@noaa.gov">jeff.waldstreicher@noaa.gov</a>
Ed Fratto, NTHMP East Coast Rep.		<a href="mailto:efratto@nesec.org">efratto@nesec.org</a>
John Parker, Environment Canada		<a href="mailto:john.k.parker@ec.gc.ca">john.k.parker@ec.gc.ca</a>

**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 it 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:**

<b>Exercise Activities</b>
<b>Agencies Involved</b>
<b>Hazard Type</b>

### **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.

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## Appendix B. Scenario Description

The Alaska tsunami forecast model was used to simulate the tsunami generated by a hypothetical magnitude 7.5 earthquake located 90 miles south of Nantucket, MA/170 miles southeast of Boston, MA. at 40.0°N, 70.0°W and an associated 100 cubic km slide off the continental slope. The tsunami generated by the slide was more than thirty times larger than the tsunami generated by the earthquake uplift.

Earthquake fault parameters are:

Length: 70km  
 Width: 35km  
 Depth: 7km  
 Strike: 158°  
 Dip: 60°  
 Slip: 100°  
 Moment:  $7.5 \times 10^{27}$  dyne-cm

Continental slope landslide parameters are:

Width: 30km  
 Length (down-slope): 20km  
 Velocity: 0 to 50m/s

The model was computed using a 4-minute resolution grid in the open ocean and additional 15-second resolution grids along the U.S./Canadian Atlantic coasts, Bermuda, and the Puerto Rico/Virgin Islands region.

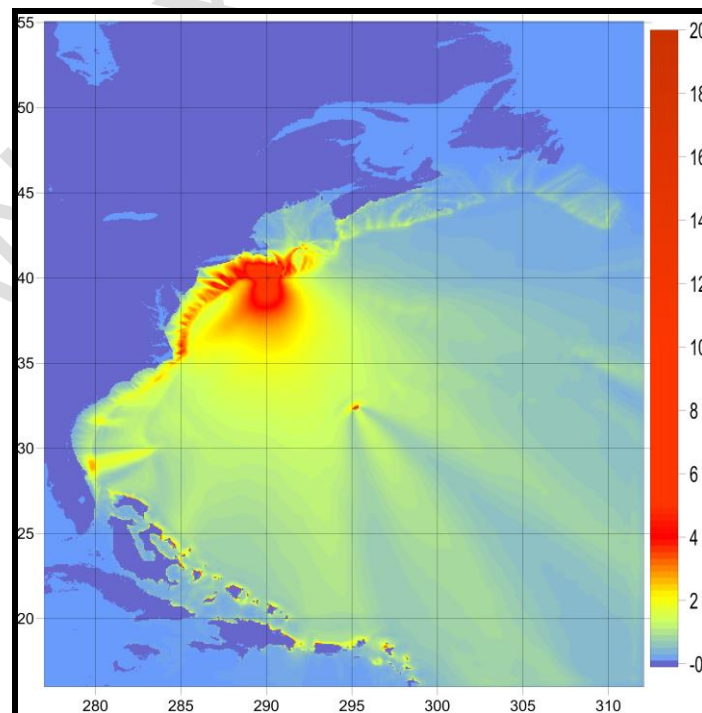


Figure B1. Maximum modeled tsunami amplitude throughout the northern Atlantic (scale in meters).



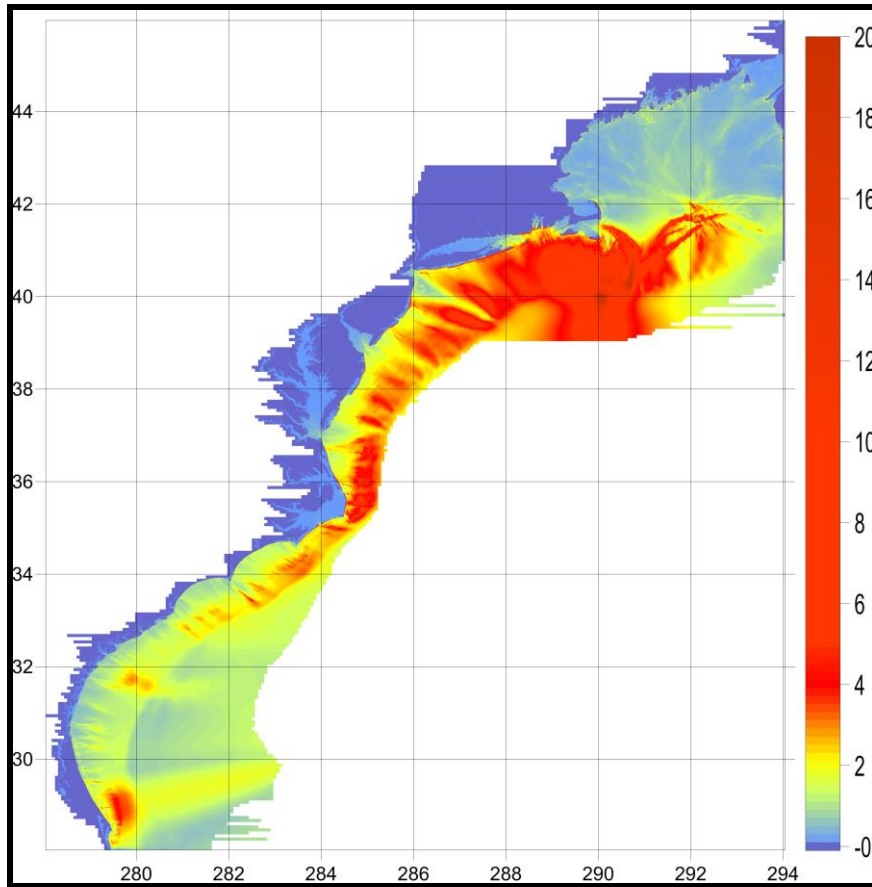


Figure B2. Maximum modeled tsunami amplitude in the finer grids near the U.S. Atlantic coast (scale in meters).

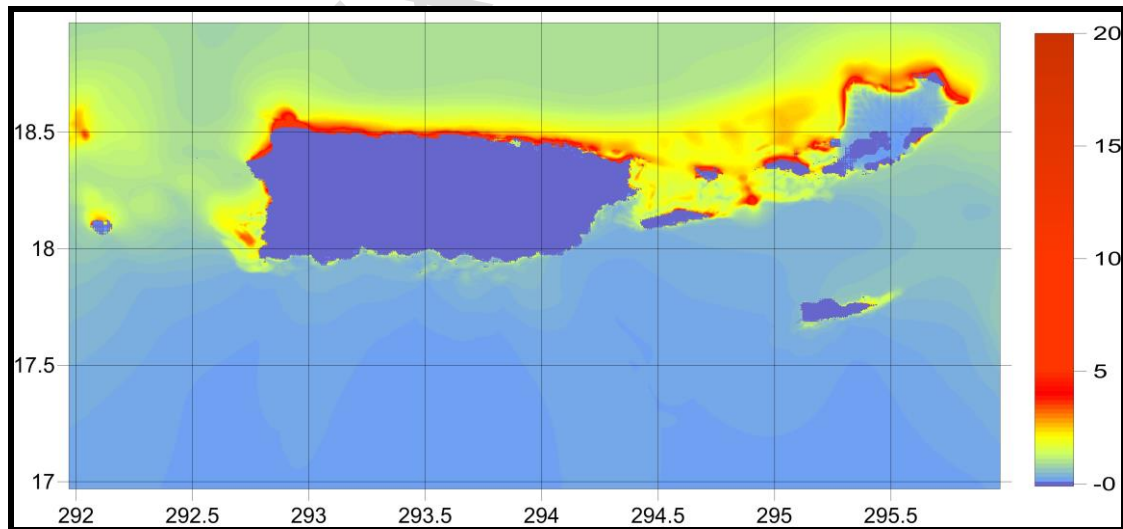


Figure B3. Maximum modeled tsunami amplitudes used near Puerto Rico and the Virgin Islands (scale in meters, though changed from above figures).

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Table B1 provides maximum modeled amplitudes at several points throughout the exercise area. Amplitude indicates the level of the tsunami above normal sea level at the coast.

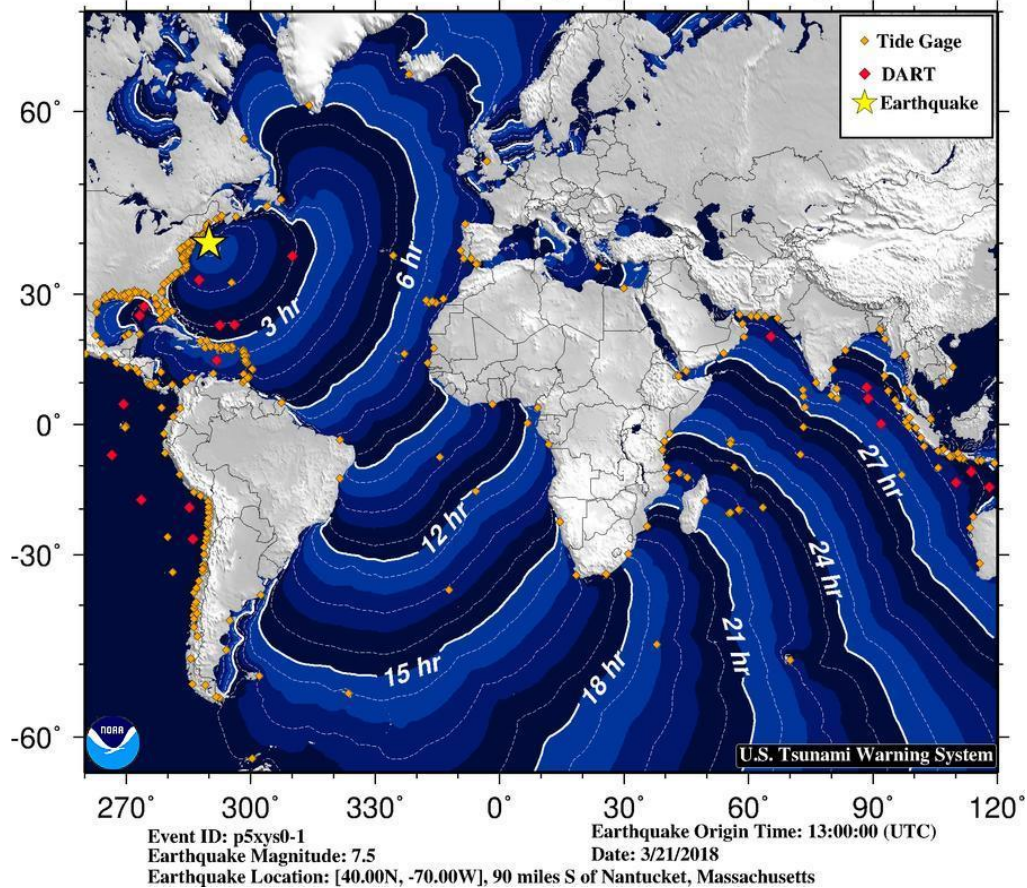
<u>Location</u>	<u>Max amp.</u> <u>(m)</u>	<u>Travel time (hrs)</u>	<u>Travel time</u> <u>(minutes)</u>
D44402	2.17	0.16	9.6
D41424	0.81	1.13	67.8
Bermuda	1.17	1.48	88.8
Oregon Inlet, NC	2.64	1.95	117.0
Montauk, NY	1.96	2.03	121.8
Newport, RI	1.15	2.17	130.2
D44401	0.25	2.23	133.8
Ocean City, MD	2.19	2.25	135.0
Duck, NC	2.58	2.28	136.8
D41420	0.57	2.30	138.0
Woods Hole, MA	0.66	2.38	142.8
D41421	0.40	2.43	145.8
New London, CT	0.57	2.43	145.8
Quonset Pt., NY	0.72	2.45	147.0
Atlantic City, NJ	3.13	2.54	152.4
Nantucket Is, MA	0.22	2.58	154.8
Lewes, DE	0.60	2.73	163.8
Sandy Hook, NJ	0.39	2.83	169.8
Cape May, NJ	0.71	2.88	172.8
Fall River, MA	0.29	2.93	175.8
Beaufort, NC	0.25	3.02	181.2
Aguadilla, PR	7.48	3.03	181.8
Chesapeake, VA	0.36	3.08	184.8
US / Canada brdr	0.36	3.08	184.8
Bergen Point, NJ	0.38	3.11	186.6
Mona Island, PR	0.88	3.15	189.0
San Juan, PR	1.51	3.15	189.0
Virgin Gorda, BVI	2.09	3.15	189.0
Mayaguez, PR	2.11	3.20	192.0
Christiansted, VI	1.24	3.30	198.0
Fort Point, NH	0.31	3.32	199.2
Kiptopeke, VA	0.18	3.32	199.2
Providence, RI	0.24	3.33	199.8
Wells, NY	0.49	3.33	199.8
The Battery, NY	0.50	3.35	201.0
Lameshur Bay, VI	0.71	3.38	202.8
Culebra, PR	2.75	3.48	208.8
Limetree Bay, VI	0.72	3.48	208.8
Vieques Is., PR	1.72	3.48	208.8

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Wrightsville, NC	1.54	3.52	211.2
Mayaguez Is, PR	0.61	3.53	211.8
Charlotte Amalie, VI	2.12	3.56	213.6
Cutler NAS, ME	0.58	3.60	216.0
Bar Harbor, ME	0.62	3.62	217.2
Portland, ME	0.28	3.62	217.2
Boston, MD	0.17	3.72	223.2
New Haven, CT	0.06	3.82	229.2
Port Canaveral, FL	1.44	3.87	232.2
Bridgeport, CT	0.14	3.88	232.8
Eastport, ME	0.05	4.20	252.0
Ship John Shoals, NJ	0.09	4.22	253.2
Springmaid, SC	1.51	4.23	253.8
Flagler, FL	2.15	4.23	253.8
Vilano Beach, FL	1.11	4.38	262.8
Charleston, SC	0.34	4.42	265.2
Windmill Point, VA	0.04	4.80	288.0
Kings Point, NY	0.17	4.98	298.8
Marcus Hook, PA	0.15	6.53	391.8
Annapolis, MD	0.04	9.11	546.6

## Tsunami Travel Times

Tsunami travel time contours in hours, beginning from the earthquake origin time.



## Appendix C. NTWC Dummy Message

WEXX20 PAAQ 211305  
TSUAT1

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
0905 AM EDT WED MAR 21 2018

... LANTEX18 TSUNAMI EXERCISE MESSAGE. REFER TO MESSAGE 1 IN THE  
EXERCISE HANDBOOK. THIS IS AN EXERCISE ONLY...

THIS MESSAGE IS BEING USED TO START THE LANTEX18 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](http://NTWC.ARH.NOAA.GOV). THE EXERCISE PURPOSE  
IS TO PROVIDE EMERGENCY MANAGEMENT A REALISTIC SCENARIO TO TEST  
TSUNAMI RESPONSE PLANS.

THIS IS ONLY AN EXERCISE.  
\$\$

---

WEXX30 PAAQ 211305  
TSUATE

TEST...PUBLIC TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST  
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK  
0905 AM EDT WED MAR 21 2018

... LANTEX18 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 LANTEX18 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](http://NTWC.ARH.NOAA.GOV). THE EXERCISE PURPOSE  
IS TO PROVIDE EMERGENCY MANAGEMENT A REALISTIC SCENARIO TO TEST  
TSUNAMI RESPONSE PLANS.

THIS IS ONLY AN EXERCISE.  
\$\$

---

WEXX40 PAAQ 211305  
TSUSPN

TEST...MENSAJE DE EJERCICIO DE TSUNAMI NUMERO 1...TEST  
NWS CENTRO NACIONAL DE ALERTA DE TSUNAMI PALMER AK  
0905 AM EDT WED MAR 21 2018

...MENSAJE PARA DAR COMIENZO AL EJERCICIO DE TSUNAMI LANTEX18.  
REFERIRSE AL MENSAJE 1 DE NTWC EN EL MANUAL PARA EL EJERCICIO.  
ESTO ES UN EJERCICIO SOLAMENTE...

ESTE MENSAJE ESTA SIENDO USADO PARA DAR COMIENZO AL EJERCICIO DE  
TSUNAMI LANTEX18. ESTE SERA EL UNICO MENSAJE QUE SERA EMITIDO  
DESDE EL CENTRO NACIONAL DE ALERTA DE TSUNAMI EXCLUYENDO LOS MENSAJES.

EL MANUAL ESTA DISPONIBLE EN LA PAGINA [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV). EL  
PROPOSITO DEL EJERCICIO ES PROVEER A LAS AUTORIDADES DE MANEJO DE  
EMERGENCIA UN ESCENARIO REALISTICO PARA PROBAR LOS PLANES DE  
RESPUESTA A TSUNAMIS.

ESTE ES SOLO UN EJERCICIO.  
\$\$

## Appendix D. NTCW Exercise Messages

The following messages, created for the LANTEX18 tsunami exercise, are representative of the official standard products issued by the West Coast and Alaska Tsunami Warning Center during a large magnitude 7.5 earthquake and tsunami originating 90 miles south of Nantucket, MA and 170 miles southeast of Boston, MA. at 40.0°N, 70.0°W. During a real event, the Center would also issue graphical and html-based products to its web site and via RSS.

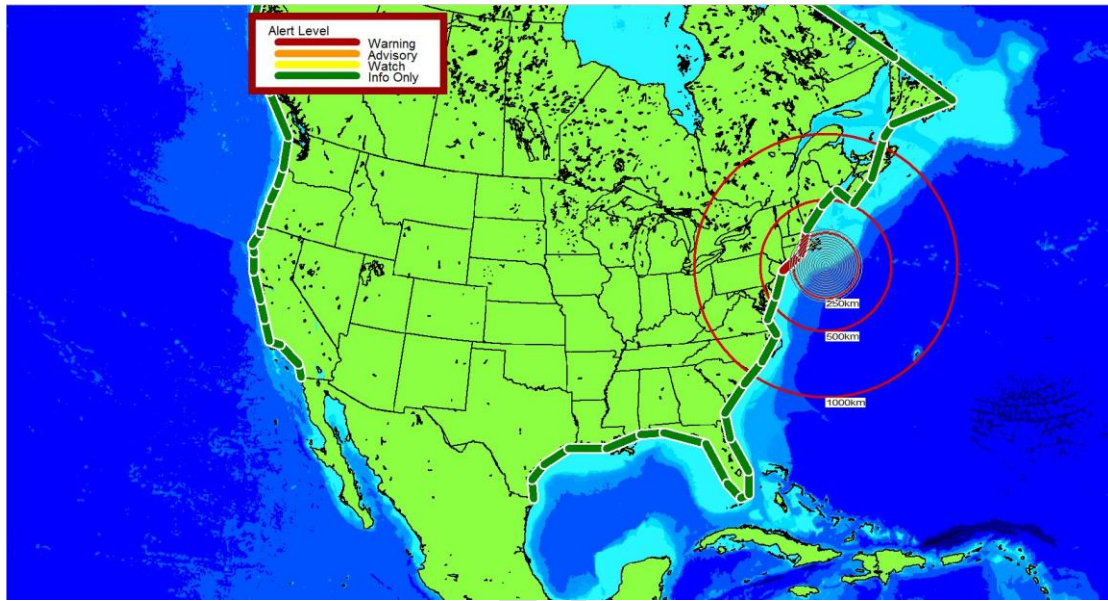


Figure D1: Smallscale map showing alert level after message #1.

### **NTWC Message #1**

WEXX30 PAAQ 211305  
TSUATE

BULLETIN  
Public Tsunami Message Number 1  
NWS National Tsunami Warning Center Palmer AK  
905 AM EDT Wed Mar 21 2018

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

Tsunami Warning in Effect for;

- \* The coastal areas of New Jersey, New York, Connecticut, Rhode Island and Massachusetts from Sandy Hook, New Jersey to Merrimack River, Massachusetts

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

## LANTEX 18 Exercise Handbook

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

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

\* Magnitude            7.5  
\* Origin Time        0900 EDT Mar 21 2018  
                          0800 CDT Mar 21 2018  
                          0900 AST Mar 21 2018  
                          1300 UTC Mar 21 2018  
\* Coordinates        40.0 North 70.0 West  
\* Depth                28 miles  
\* Location            90 miles S of Nantucket, Massachusetts  
                          170 miles SE of Boston, Massachusetts

### FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI
----	-----
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21

### OBSERVATIONS OF TSUNAMI ACTIVITY

-----

\* No tsunami observations are available to report.

### RECOMMENDED ACTIONS

-----

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

If you are in a tsunami warning area;

- \* Evacuate inland or to higher ground above and beyond designated tsunami hazard zones or move to an upper floor of a multi-story building depending on your situation.
- \* Move out of the water, off the beach, and away from harbors, marinas, breakwaters, bays and inlets.

## LANTEX 18 Exercise Handbook

- \* 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 warning areas.

If you are in a tsunami warning area;

- \* A tsunami with damaging waves and powerful currents is possible.
- \* Repeated coastal flooding is possible as waves arrive onshore, move inland, and drain back into the ocean.
- \* Strong and unusual waves, currents and inland flooding can drown or injure people and weaken or destroy structures on land and in water.
- \* Water filled with floating or submerged debris that can injure or kill people and weaken or destroy buildings and bridges is possible.
- \* Strong and unusual currents and waves in harbors, marinas, bays, and inlets may be especially destructive.
- \* 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.

## LANTEX 18 Exercise 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](http://tsunami.gov) for more information.
- \* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).
- \* This message will be updated within 30 minutes.

\$\$

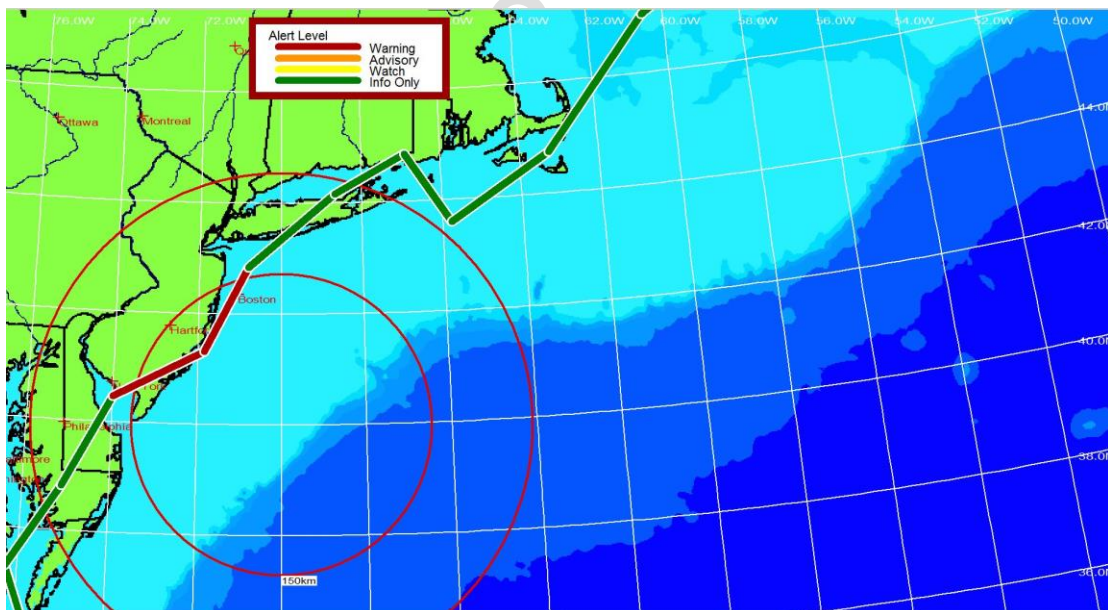


Figure D2: Largescale map showing alert level after message #1.

### **NTWC Message #2**

WEXX30 PAAQ 211337  
TSUATE

BULLETIN  
Public Tsunami Message Number 2



## LANTEX 18 Exercise Handbook

NWS National Tsunami Warning Center Palmer AK  
937 AM EDT Wed Mar 21 2018

### UPDATES

-----

- \* Updated observations

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

Tsunami Warning in Effect for;

- \* The coastal areas of New Jersey, New York, Connecticut, Rhode Island and Massachusetts from Sandy Hook, New Jersey to Merrimack River, Massachusetts

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

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

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

- \* Magnitude 7.5
- \* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018
- \* Coordinates 40.0 North 70.0 West
- \* Depth 28 miles
- \* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI
----	-----
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21

- \* Massachusetts

## LANTEX 18 Exercise Handbook

Nantucket            1115   EDT Mar 21  
Boston                1255   EDT Mar 21

### 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
-----	-----	-----
DART 44402    US	0910   EDT Mar 21	7.1ft

### RECOMMENDED ACTIONS

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

If you are in a tsunami warning area;

- \* Evacuate inland or to higher ground above and beyond designated tsunami hazard zones or move to an upper floor of a multi-story building depending on your situation.
- \* 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 warning areas.

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If you are in a tsunami warning area;

- \* A tsunami with damaging waves and powerful currents is possible.
- \* Repeated coastal flooding is possible as waves arrive onshore, move inland, and drain back into the ocean.
- \* Strong and unusual waves, currents and inland flooding can drown or injure people and weaken or destroy structures on land and in water.
- \* Water filled with floating or submerged debris that can injure or kill people and weaken or destroy buildings and bridges is possible.
- \* Strong and unusual currents and waves in harbors, marinas, bays, and inlets may be especially destructive.
- \* 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](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 30 minutes.

\$\$

# LANTEX 18 Exercise Handbook

## NTWC Message #3

WEXX30 PAAQ 211410  
TSUATE

### BULLETIN

Public Tsunami Message Number 3  
NWS National Tsunami Warning Center Palmer AK  
1010 AM EDT Wed Mar 21 2018

### UPDATES

-----

- \* Updated observations
- \* Revised alert areas

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

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

Tsunami Warning in Effect for;

- \* The coastal areas of Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware and New Jersey from Ocean Reef, Florida to Sandy Hook, New Jersey
- \* The coastal areas of New Jersey, New York, Connecticut, Rhode Island and Massachusetts from Sandy Hook, New Jersey to Merrimack River, Massachusetts
- \* The coastal areas of Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia and Newfoundland from Merrimack River, Massachusetts to La Manche, Newfoundland

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

-----

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

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

## LANTEX 18 Exercise Handbook

\* North Carolina  
Cape Hatteras 1050 EDT Mar 21

\* New York  
Montauk 1050 EDT Mar 21  
Manhattan 1230 EDT Mar 21

\* Massachusetts  
Nantucket 1115 EDT Mar 21  
Boston 1255 EDT Mar 21

\* Nova Scotia  
Lockeport 1220 ADT Mar 21  
Scatarie Island 1335 ADT Mar 21

\* New Jersey  
Atlantic City 1130 EDT Mar 21

\* Virginia  
Virginia Beach 1155 EDT Mar 21

\* New Brunswick  
Grand Manan Isla 1330 ADT Mar 21

\* Maine  
Portland 1240 EDT Mar 21

\* Florida  
Miami 1245 EDT Mar 21  
Daytona 1320 EDT Mar 21  
Key West 1325 EDT Mar 21  
Melbourne Beach 1330 EDT Mar 21  
Jacksonville Bea 1340 EDT Mar 21  
Panama City 1520 CDT Mar 21  
Saint Petersburg 1815 EDT Mar 21

\* Newfoundland  
Saint Lawrence 1420 NDT Mar 21  
Bonavista 1625 NDT Mar 21

\* South Carolina  
Myrtle Beach 1320 EDT Mar 21  
Charleston 1340 EDT Mar 21

\* Georgia  
Savannah 1355 EDT Mar 21

\* Labrador  
Battle Harbour 1655 NDT Mar 21  
Cape Makkovik 1630 ADT Mar 21

\* Texas  
Corpus Christi 1605 CDT Mar 21  
Galveston 1720 CDT Mar 21

## LANTEX 18 Exercise Handbook

\* Mississippi  
Biloxi 1715 CDT Mar 21

### 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
DART 44402 US	0910 EDT Mar 21	7.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 7.5  
\* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### RECOMMENDED ACTIONS - UPDATED

-----

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

If you are in a tsunami warning area;

- \* Evacuate inland or to higher ground above and beyond designated tsunami hazard zones or move to an upper floor of a multi-story building depending on your situation.

If you are in a tsunami warning or 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,

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- \* 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 warning and in the advisory areas.

If you are in a tsunami warning area;

- \* A tsunami with damaging waves and powerful currents is possible.
- \* Repeated coastal flooding is possible as waves arrive onshore, move inland, and drain back into the ocean.
- \* Strong and unusual waves, currents and inland flooding can drown or injure people and weaken or destroy structures on land and in water.
- \* Water filled with floating or submerged debris that can injure or kill people and weaken or destroy buildings and bridges is possible.
- \* Strong and unusual currents and waves in harbors, marinas, bays, and inlets may be especially destructive.

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.

If you are in a tsunami warning or advisory area;

- \* 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.

## LANTEX 18 Exercise Handbook

- \* 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](http://tsunami.gov) for more information.
- \* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).
- \* This message will be updated within 30 minutes.

\$\$

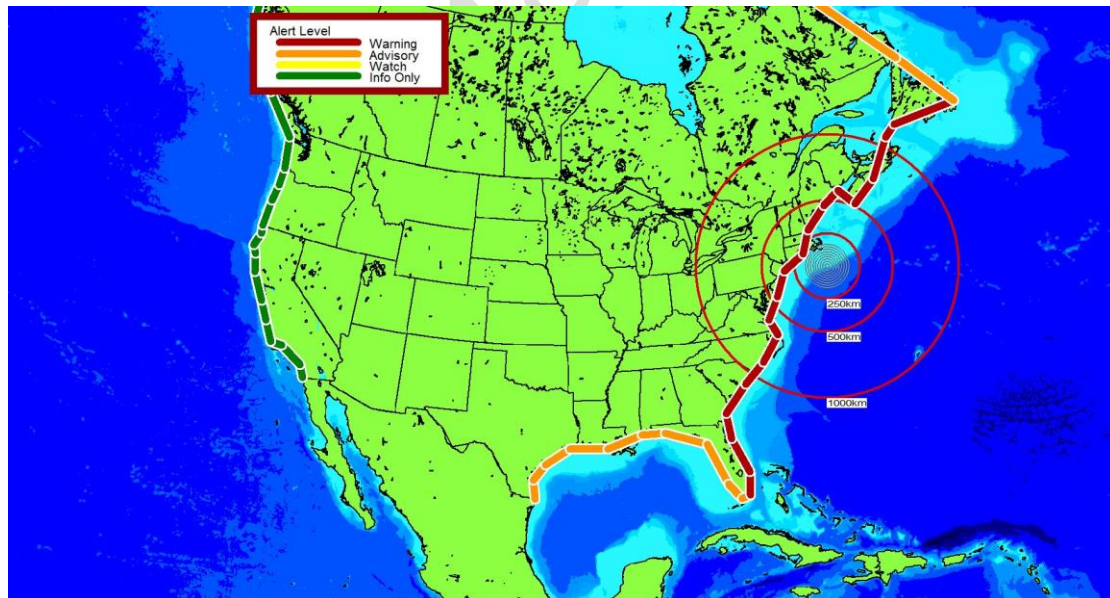


Figure D3: Alert level after message #3.

### **NTWC Message #4**

WEXX30 PAAQ 211435  
TSUATE

BULLETIN



## LANTEX 18 Exercise Handbook

Public Tsunami Message Number 4  
NWS National Tsunami Warning Center Palmer AK  
1035 AM EDT Wed Mar 21 2018

### UPDATES

-----

- \* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI
----	-----
* North Carolina	
Cape Hatteras	1050 EDT Mar 21
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21

- \* Nova Scotia

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Lockeport            1220   ADT Mar 21  
 Scatarie Island    1335   ADT Mar 21

\* New Jersey  
 Atlantic City       1130   EDT Mar 21

\* Virginia  
 Virginia Beach    1155   EDT Mar 21

\* New Brunswick  
 Grand Manan Isla 1330   ADT Mar 21

\* Maine  
 Portland            1240   EDT Mar 21

\* Florida  
 Miami               1245   EDT Mar 21  
 Daytona            1320   EDT Mar 21  
 Key West           1325   EDT Mar 21  
 Melbourne Beach  1330   EDT Mar 21  
 Jacksonville Bea  1340   EDT Mar 21  
 Panama City        1520   CDT Mar 21  
 Saint Petersburg  1815   EDT Mar 21

\* Newfoundland  
 Saint Lawrence    1420   NDT Mar 21  
 Bonavista         1625   NDT Mar 21

\* South Carolina  
 Myrtle Beach     1320   EDT Mar 21  
 Charleston        1340   EDT Mar 21

\* Georgia  
 Savannah          1355   EDT Mar 21

\* Labrador  
 Battle Harbour    1655   NDT Mar 21  
 Cape Makkovik    1630   ADT Mar 21

\* Texas  
 Corpus Christi    1605   CDT Mar 21  
 Galveston         1720   CDT Mar 21

\* Mississippi  
 Biloxi             1715   CDT Mar 21

### 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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DART 44402	US	0910	EDT Mar 21	7.1ft
DART 41424	US	1008	EDT Mar 21	2.7ft
Bermuda	Bermuda	1029	EDT Mar 21	3.8ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 7.5  
\* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### RECOMMENDED ACTIONS - UPDATED

-----

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

If you are in a tsunami warning area;

- \* Evacuate inland or to higher ground above and beyond designated tsunami hazard zones or move to an upper floor of a multi-story building depending on your situation.

If you are in a tsunami warning or 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.

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### IMPACTS

-----

Impacts will vary at different locations in the warning and in the advisory areas.

If you are in a tsunami warning area;

- \* A tsunami with damaging waves and powerful currents is possible.
- \* Repeated coastal flooding is possible as waves arrive onshore, move inland, and drain back into the ocean.
- \* Strong and unusual waves, currents and inland flooding can drown or injure people and weaken or destroy structures on land and in water.
- \* Water filled with floating or submerged debris that can injure or kill people and weaken or destroy buildings and bridges is possible.
- \* Strong and unusual currents and waves in harbors, marinas, bays, and inlets may be especially destructive.

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.

If you are in a tsunami warning or advisory area;

- \* 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.

## LANTEX 18 Exercise Handbook

- \* 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.

\$\$

### **NTWC Message #5**

WEXX30 PAAQ 211506  
TSUATE

#### BULLETIN

Public Tsunami Message Number 5  
NWS National Tsunami Warning Center, Palmer AK  
1106 AM EDT Wed Mar 21 2018

#### UPDATES

- \* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La

## LANTEX 18 Exercise Handbook

Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

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

SITE	FORECAST START OF TSUNAMI
----	-----
* North Carolina	
Cape Hatteras	1050 EDT Mar 21
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21
* Nova Scotia	
Lockeport	1220 ADT Mar 21
Scatarie Island	1335 ADT Mar 21
* New Jersey	
Atlantic City	1130 EDT Mar 21
* Virginia	
Virginia Beach	1155 EDT Mar 21
* New Brunswick	
Grand Manan Isla	1330 ADT Mar 21
* Maine	
Portland	1240 EDT Mar 21
* Florida	
Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland	
Saint Lawrence	1420 NDT Mar 21
Bonavista	1625 NDT Mar 21
* South Carolina	
Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21

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\* Georgia  
Savannah 1355 EDT Mar 21

\* Labrador  
Battle Harbour 1655 NDT Mar 21  
Cape Makkovik 1630 ADT Mar 21

\* Texas  
Corpus Christi 1605 CDT Mar 21  
Galveston 1720 CDT Mar 21

\* Mississippi  
Biloxi 1715 CDT Mar 21

### 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
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft

### PRELIMINARY EARTHQUAKE PARAMETERS

\* Magnitude 7.5  
\* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### RECOMMENDED ACTIONS

\* See message number 4 for recommended actions.

### IMPACTS

\* See message number 4 for possible impacts.

## LANTEX 18 Exercise Handbook

### ADDITIONAL INFORMATION AND NEXT UPDATE

-----

\* Refer to the internet site [tsunami.gov](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 30 minutes.

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### **NTWC Message #6**

WEXX30 PAAQ 211540  
TSUATE

#### BULLETIN

Public Tsunami Message Number 6  
NWS National Tsunami Warning Center Palmer AK  
1140 AM EDT Wed Mar 21 2018

#### UPDATES

-----

\* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

\* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida

\* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

#### FORECASTS OF TSUNAMI ACTIVITY

-----

\* Tsunami activity is forecasted to start at the following



## LANTEX 18 Exercise Handbook

locations at the specified times.

SITE -----	FORECAST START OF TSUNAMI -----
* North Carolina	
Cape Hatteras	1050 EDT Mar 21
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21
* Nova Scotia	
Lockeport	1220 ADT Mar 21
Scatarie Island	1335 ADT Mar 21
* New Jersey	
Atlantic City	1130 EDT Mar 21
* Virginia	
Virginia Beach	1155 EDT Mar 21
* New Brunswick	
Grand Manan Isla	1330 ADT Mar 21
* Maine	
Portland	1240 EDT Mar 21
* Florida	
Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland	
Saint Lawrence	1420 NDT Mar 21
Bonavista	1625 NDT Mar 21
* South Carolina	
Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21
* Georgia	
Savannah	1355 EDT Mar 21
* Labrador	
Battle Harbour	1655 NDT Mar 21

## LANTEX 18 Exercise Handbook

Cape Makkovik 1630 ADT Mar 21

\* Texas

Corpus Christi 1605 CDT Mar 21

Galveston 1720 CDT Mar 21

\* Mississippi

Biloxi 1715 CDT Mar 21

### 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
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Quonset Point RI	1127 EDT Mar 21	2.4ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----  
 \* Magnitude 7.5  
 \* Origin Time 0900 EDT Mar 21 2018  
                   0800 CDT Mar 21 2018  
                   0900 AST Mar 21 2018  
                   1300 UTC Mar 21 2018  
 \* Coordinates 40.0 North 70.0 West  
 \* Depth 28 miles  
 \* Location 90 miles S of Nantucket, Massachusetts  
                   170 miles SE of Boston, Massachusetts

### RECOMMENDED ACTIONS

-----  
 \* See message number 4 for recommended actions.

## LANTEX 18 Exercise Handbook

### 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 Message #7**

WEXX30 PAAQ 211610  
TSUATE

#### BULLETIN

Public Tsunami Message Number 7  
NWS National Tsunami Warning Center Palmer AK  
1210 PM EDT Wed Mar 21 2018

#### UPDATES

-----

- \* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

## LANTEX 18 Exercise Handbook

### FORECASTS OF TSUNAMI ACTIVITY

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

SITE	FORECAST START OF TSUNAMI
----	-----
* New York	
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21
* Nova Scotia	
Lockeport	1220 ADT Mar 21
Scatarie Island	1335 ADT Mar 21
* New Jersey	
Atlantic City	1130 EDT Mar 21
* Virginia	
Virginia Beach	1155 EDT Mar 21
* New Brunswick	
Grand Manan Isla	1330 ADT Mar 21
* Maine	
Portland	1240 EDT Mar 21
* Florida	
Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland	
Saint Lawrence	1420 NDT Mar 21
Bonavista	1625 NDT Mar 21
* South Carolina	
Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21
* Georgia	
Savannah	1355 EDT Mar 21
* Labrador	

## LANTEX 18 Exercise Handbook

Battle Harbour 1655 NDT Mar 21  
 Cape Makkovik 1630 ADT Mar 21

\* Texas

Corpus Christi 1605 CDT Mar 21  
 Galveston 1720 CDT Mar 21

\* Mississippi

Biloxi 1715 CDT Mar 21

### 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
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fall River MA	1156 EDT Mar 21	1.0ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----  
 \* Magnitude 7.5  
 \* Origin Time 0900 EDT Mar 21 2018  
                   0800 CDT Mar 21 2018  
                   0900 AST Mar 21 2018  
                   1300 UTC Mar 21 2018  
 \* Coordinates 40.0 North 70.0 West  
 \* Depth 28 miles  
 \* Location 90 miles S of Nantucket, Massachusetts  
             170 miles SE of Boston, Massachusetts

## LANTEX 18 Exercise Handbook

### 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 Message #8**

WEXX30 PAAQ 211650

TSUATE

### BULLETIN

Public Tsunami Message Number 8

NWS National Tsunami Warning Center Palmer AK

1250 PM EDT Wed Mar 21 2018

### UPDATES

-----

- \* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

## LANTEX 18 Exercise Handbook

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

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

SITE	FORECAST START OF TSUNAMI
----	-----
* New York Manhattan	1230 EDT Mar 21
* Massachusetts Boston	1255 EDT Mar 21
* Nova Scotia Scatarie Island	1335 ADT Mar 21
* Virginia Virginia Beach	1155 EDT Mar 21
* New Brunswick Grand Manan Isla	1330 ADT Mar 21
* Maine Portland	1240 EDT Mar 21
* Florida Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland Saint Lawrence	1420 NDT Mar 21
Bonavista	1625 NDT Mar 21
* South Carolina Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21
* Georgia Savannah	1355 EDT Mar 21

## LANTEX 18 Exercise Handbook

\* Labrador  
 Battle Harbour 1655 NDT Mar 21  
 Cape Makkovik 1630 ADT Mar 21

\* Texas  
 Corpus Christi 1605 CDT Mar 21  
 Galveston 1720 CDT Mar 21

\* Mississippi  
 Biloxi 1715 CDT Mar 21

### 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
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fort Point NH	1219 EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205 EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209 EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212 EDT Mar 21	6.9ft
Virgin Gorda VG	1209 EDT Mar 21	6.9ft
Christiansted VI	1218 EDT Mar 21	4.1ft
The US/Canada Border US	1205 EDT Mar 21	1.2ft
Vieques Is. north PR	1229 EDT Mar 21	5.6ft
Lameshur Bay VI	1223 EDT Mar 21	2.3ft
Limetree Bay VI	1229 EDT Mar 21	2.4ft
Fall River MA	1156 EDT Mar 21	1.0ft
Wrightsville Beach NC	1231 EDT Mar 21	5.1ft



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Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 7.5  
\* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### 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](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 30 minutes.

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### **NTWC Message #9**

WEXX30 PAAQ 211712  
TSUATE

### BULLETIN

Public Tsunami Message Number 9  
NWS National Tsunami Warning Center Palmer AK  
112 PM EDT Wed Mar 21 2018

### UPDATES

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## LANTEX 18 Exercise Handbook

\* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

\* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida

\* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

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

SITE	FORECAST START OF TSUNAMI
----	-----
* New York Manhattan	1230 EDT Mar 21
* Massachusetts Boston	1255 EDT Mar 21
* Nova Scotia Scatarie Island	1335 ADT Mar 21
* New Brunswick Grand Manan Isla	1330 ADT Mar 21
* Maine Portland	1240 EDT Mar 21
* Florida Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21

## LANTEX 18 Exercise Handbook

Key West 1325 EDT Mar 21  
 Melbourne Beach 1330 EDT Mar 21  
 Jacksonville Bea 1340 EDT Mar 21  
 Panama City 1520 CDT Mar 21  
 Saint Petersburg 1815 EDT Mar 21

\* Newfoundland

Saint Lawrence 1420 NDT Mar 21  
 Bonavista 1625 NDT Mar 21

\* South Carolina

Myrtle Beach 1320 EDT Mar 21  
 Charleston 1340 EDT Mar 21

\* Georgia

Savannah 1355 EDT Mar 21

\* Labrador

Battle Harbour 1655 NDT Mar 21  
 Cape Makkovik 1630 ADT Mar 21

\* Texas

Corpus Christi 1605 CDT Mar 21  
 Galveston 1720 CDT Mar 21

\* Mississippi

Biloxi 1715 CDT Mar 21

### 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
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft

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Beaufort North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 7.5  
\* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### RECOMMENDED ACTIONS

-----

\* See message number 4 for recommended actions.

### IMPACTS

-----

\* See message number 4 for possible impacts.

### ADDITIONAL INFORMATION AND NEXT UPDATE

-----

## LANTEX 18 Exercise Handbook

\* Refer to the internet site [tsunami.gov](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 30 minutes.

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### **NTWC Message #10**

WEXX30 PAAQ 211742  
TSUATE

BULLETIN

Public Tsunami Message Number 10  
NWS National Tsunami Warning Center Palmer AK  
142 PM EDT Wed Mar 21 2018

UPDATES

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\* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

\* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida

\* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

FORECASTS OF TSUNAMI ACTIVITY

-----

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

## LANTEX 18 Exercise Handbook

SITE -----	FORECAST START OF TSUNAMI -----
* Massachusetts	
Boston	1255 EDT Mar 21
* Florida	
Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland	
Saint Lawrence	1420 NDT Mar 21
Bonavista	1625 NDT Mar 21
* South Carolina	
Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21
* Georgia	
Savannah	1355 EDT Mar 21
* Labrador	
Battle Harbour	1655 NDT Mar 21
Cape Makkovik	1630 ADT Mar 21
* Texas	
Corpus Christi	1605 CDT Mar 21
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### 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 -----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft

## LANTEX 18 Exercise Handbook

Nantucket	Massachusetts	1135	EDT Mar 21	0.7ft
DART 44401	US	1114	EDT Mar 21	0.8ft
Ocean City	Maryland	1115	EDT Mar 21	7.2ft
New London	Connecticut	1126	EDT Mar 21	1.9ft
DART 41420	US	1118	EDT Mar 21	1.9ft
Duck	North Carolina	1117	EDT Mar 21	8.5ft
DART 41421	US	1126	EDT Mar 21	1.3ft
Atlantic City	NJ	1132	EDT Mar 21	10.3ft
Sandy Hook	New Jersey	1150	EDT Mar 21	1.3ft
Lewes	Delaware	1144	EDT Mar 21	2.0ft
Quonset Point	RI	1127	EDT Mar 21	2.4ft
Beaufort	North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla	Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG	Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May	New Jersey	1153	EDT Mar 21	2.3ft
Fort Point	NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge	VA	1205	EDT Mar 21	1.2ft
Mona Island	Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez	Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda	VG	1209	EDT Mar 21	6.9ft
Christiansted	VI	1218	EDT Mar 21	4.1ft
New Haven	Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border	US	1205	EDT Mar 21	1.2ft
Vieques Is. north	PR	1229	EDT Mar 21	5.6ft
Bar Harbor	Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay	VI	1223	EDT Mar 21	2.3ft
Limetree Bay	VI	1229	EDT Mar 21	2.4ft
Fall River	MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach	NC	1231	EDT Mar 21	5.1ft
Magueyes Island	PR	1232	EDT Mar 21	2.0ft
Kiptopeke	Virginia	1219	EDT Mar 21	0.6ft
Bergen Point	New Jersey	1207	EDT Mar 21	1.2ft
Portland	Maine	1237	EDT Mar 21	0.9ft
Culebra	Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie	VI	1234	EDT Mar 21	7.0ft
Bridgeport	Connecticut	1253	EDT Mar 21	0.5ft
Boston	Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal	NJ	1313	EDT Mar 21	0.3ft
Providence	Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral	Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier	SC	1314	EDT Mar 21	5.0ft
Flagler Beach	Florida	1314	EDT Mar 21	7.1ft
Charleston	SC	1325	EDT Mar 21	1.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude            7.5

\* Origin Time            0900 EDT Mar 21 2018  
                               0800 CDT Mar 21 2018  
                               0900 AST Mar 21 2018  
                               1300 UTC Mar 21 2018

\* Coordinates            40.0 North 70.0 West

\* Depth                    28 miles

\* Location                90 miles S of Nantucket, Massachusetts

## LANTEX 18 Exercise Handbook

170 miles SE of Boston, Massachusetts

### 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](http://tsunami.gov) for more information.
- \* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).
- \* This message will be updated within 30 minutes.

\$\$

### **NTWC Message #11**

WEXX30 PAAQ 211807  
TSUATE

### BULLETIN

Public Tsunami Message Number 11  
NWS National Tsunami Warning Center Palmer AK  
207 PM EDT Wed Mar 21 2018

### UPDATES

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- \* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland



## LANTEX 18 Exercise Handbook

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI
----	-----
* Florida	
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland	
Bonavista	1625 NDT Mar 21
* South Carolina	
Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21
* Georgia	
Savannah	1355 EDT Mar 21
* Labrador	
Battle Harbour	1655 NDT Mar 21
Cape Makkovik	1630 ADT Mar 21
* Texas	
Corpus Christi	1605 CDT Mar 21
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### 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.

## LANTEX 18 Exercise Handbook

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fort Point NH	1219 EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205 EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209 EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212 EDT Mar 21	6.9ft
Virgin Gorda VG	1209 EDT Mar 21	6.9ft
Christiansted VI	1218 EDT Mar 21	4.1ft
New Haven Connecticut	1249 EDT Mar 21	0.2ft
The US/Canada Border US	1205 EDT Mar 21	1.2ft
Vieques Is. north PR	1229 EDT Mar 21	5.6ft
Bar Harbor Maine	1237 EDT Mar 21	2.0ft
Lameshur Bay VI	1223 EDT Mar 21	2.3ft
Limetree Bay VI	1229 EDT Mar 21	2.4ft
Fall River MA	1156 EDT Mar 21	1.0ft
Wrightsville Beach NC	1231 EDT Mar 21	5.1ft
Magueyes Island PR	1232 EDT Mar 21	2.0ft
Kiptopeke Virginia	1219 EDT Mar 21	0.6ft
Bergen Point New Jersey	1207 EDT Mar 21	1.2ft
Portland Maine	1237 EDT Mar 21	0.9ft
Culebra Puerto Rico	1229 EDT Mar 21	9.0ft
Charlotte Amalie VI	1234 EDT Mar 21	7.0ft
Bridgeport Connecticut	1253 EDT Mar 21	0.5ft
Windmill Point Virginia	1348 EDT Mar 21	0.1ft
Boston Massachusetts	1243 EDT Mar 21	0.6ft
Ship John Shoal NJ	1313 EDT Mar 21	0.3ft
Providence Rhode Island	1220 EDT Mar 21	0.8ft
Port Canaveral Florida	1252 EDT Mar 21	4.7ft
Springmaid Pier SC	1314 EDT Mar 21	5.0ft
Kings Point New York	1359 EDT Mar 21	0.6ft
Flagler Beach Florida	1314 EDT Mar 21	7.1ft
Charleston SC	1325 EDT Mar 21	1.1ft

## LANTEX 18 Exercise Handbook

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude            7.5  
\* Origin Time            0900 EDT Mar 21 2018  
                          0800 CDT Mar 21 2018  
                          0900 AST Mar 21 2018  
                          1300 UTC Mar 21 2018  
\* Coordinates          40.0 North 70.0 West  
\* Depth                 28 miles  
\* Location              90 miles S of Nantucket, Massachusetts  
                          170 miles SE of Boston, Massachusetts

### 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](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 60 minutes.

\$\$

### **NTWC Message #12**

WEXX30 PAAQ 211905  
TSUATE

#### BULLETIN

Public Tsunami Message Number 12  
NWS National Tsunami Warning Center Palmer AK  
305 PM EDT Wed Mar 21 2018

#### UPDATES

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\* Updated observations

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

## LANTEX 18 Exercise Handbook

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI
----	-----
* Florida	
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland	
Bonavista	1625 NDT Mar 21
* Labrador	
Battle Harbour	1655 NDT Mar 21
Cape Makkovik	1630 ADT Mar 21
* Texas	
Corpus Christi	1605 CDT Mar 21
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### 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.

## LANTEX 18 Exercise Handbook

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fort Point NH	1219 EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205 EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209 EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212 EDT Mar 21	6.9ft
Virgin Gorda VG	1209 EDT Mar 21	6.9ft
Christiansted VI	1218 EDT Mar 21	4.1ft
New Haven Connecticut	1249 EDT Mar 21	0.2ft
The US/Canada Border US	1205 EDT Mar 21	1.2ft
Vieques Is. north PR	1229 EDT Mar 21	5.6ft
Bar Harbor Maine	1237 EDT Mar 21	2.0ft
Lameshur Bay VI	1223 EDT Mar 21	2.3ft
Limetree Bay VI	1229 EDT Mar 21	2.4ft
Fall River MA	1156 EDT Mar 21	1.0ft
Wrightsville Beach NC	1231 EDT Mar 21	5.1ft
Magueyes Island PR	1232 EDT Mar 21	2.0ft
Kiptopeke Virginia	1219 EDT Mar 21	0.6ft
Bergen Point New Jersey	1207 EDT Mar 21	1.2ft
Portland Maine	1237 EDT Mar 21	0.9ft
Culebra Puerto Rico	1229 EDT Mar 21	9.0ft
Charlotte Amalie VI	1234 EDT Mar 21	7.0ft
Bridgeport Connecticut	1253 EDT Mar 21	0.5ft
Windmill Point Virginia	1348 EDT Mar 21	0.1ft
Boston Massachusetts	1243 EDT Mar 21	0.6ft
Ship John Shoal NJ	1313 EDT Mar 21	0.3ft
Providence Rhode Island	1220 EDT Mar 21	0.8ft
Port Canaveral Florida	1252 EDT Mar 21	4.7ft
Springmaid Pier SC	1314 EDT Mar 21	5.0ft
Kings Point New York	1359 EDT Mar 21	0.6ft
Flagler Beach Florida	1314 EDT Mar 21	7.1ft
Charleston SC	1325 EDT Mar 21	1.1ft

## LANTEX 18 Exercise Handbook

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 7.5  
\* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### 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](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 60 minutes.

\$\$

### **NTWC Message #13**

WEXX30 PAAQ 212008  
TSUATE

### BULLETIN

Public Tsunami Message Number 13  
NWS National Tsunami Warning Center Palmer AK  
408 PM EDT Wed Mar 21 2018

### UPDATES

-----

\* Updated observations

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

## LANTEX 18 Exercise Handbook

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI		
----	-----		
* Florida			
Panama City	1520	CDT	Mar 21
Saint Petersburg	1815	EDT	Mar 21
* Labrador			
Battle Harbour	1655	NDT	Mar 21
Cape Makkovik	1630	ADT	Mar 21
* Texas			
Corpus Christi	1605	CDT	Mar 21
Galveston	1720	CDT	Mar 21
* Mississippi			
Biloxi	1715	CDT	Mar 21

### 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

## LANTEX 18 Exercise Handbook

SITE	OF MEASUREMENT	TSUNAMI HEIGHT
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fort Point NH	1219 EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205 EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209 EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212 EDT Mar 21	6.9ft
Virgin Gorda VG	1209 EDT Mar 21	6.9ft
Christiansted VI	1218 EDT Mar 21	4.1ft
New Haven Connecticut	1249 EDT Mar 21	0.2ft
The US/Canada Border US	1205 EDT Mar 21	1.2ft
Vieques Is. north PR	1229 EDT Mar 21	5.6ft
Bar Harbor Maine	1237 EDT Mar 21	2.0ft
Lameshur Bay VI	1223 EDT Mar 21	2.3ft
Limetree Bay VI	1229 EDT Mar 21	2.4ft
Fall River MA	1156 EDT Mar 21	1.0ft
Wrightsville Beach NC	1231 EDT Mar 21	5.1ft
Magueyes Island PR	1232 EDT Mar 21	2.0ft
Kiptopeke Virginia	1219 EDT Mar 21	0.6ft
Bergen Point New Jersey	1207 EDT Mar 21	1.2ft
Portland Maine	1237 EDT Mar 21	0.9ft
Culebra Puerto Rico	1229 EDT Mar 21	9.0ft
Charlotte Amalie VI	1234 EDT Mar 21	7.0ft
Bridgeport Connecticut	1253 EDT Mar 21	0.5ft
Windmill Point Virginia	1348 EDT Mar 21	0.1ft
Boston Massachusetts	1243 EDT Mar 21	0.6ft
Ship John Shoal NJ	1313 EDT Mar 21	0.3ft
Providence Rhode Island	1220 EDT Mar 21	0.8ft
Port Canaveral Florida	1252 EDT Mar 21	4.7ft
Springmaid Pier SC	1314 EDT Mar 21	5.0ft
Kings Point New York	1359 EDT Mar 21	0.6ft
Flagler Beach Florida	1314 EDT Mar 21	7.1ft
Charleston SC	1325 EDT Mar 21	1.1ft



## LANTEX 18 Exercise Handbook

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude            7.5  
\* Origin Time           0900 EDT Mar 21 2018  
                          0800 CDT Mar 21 2018  
                          0900 AST Mar 21 2018  
                          1300 UTC Mar 21 2018  
\* Coordinates          40.0 North 70.0 West  
\* Depth                28 miles  
\* Location              90 miles S of Nantucket, Massachusetts  
                          170 miles SE of Boston, Massachusetts

### 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](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 60 minutes.

\$\$

### **NTWC Message #14**

WEXX30 PAAQ 212105  
TSUATE

### BULLETIN

Public Tsunami Message Number 14  
NWS National Tsunami Warning Center Palmer AK  
505 PM EDT Wed Mar 21 2018

### UPDATES

-----

\* Updated observations

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

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

## LANTEX 18 Exercise Handbook

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

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

SITE	FORECAST START OF TSUNAMI
----	-----
* Florida	
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Texas	
Corpus Christi	1605 CDT Mar 21
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### 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
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft

## LANTEX 18 Exercise Handbook

Oregon Inlet NC	1057	EDT Mar 21	8.7ft
Woods Hole MA	1123	EDT Mar 21	2.2ft
Newport Rhode Island	1110	EDT Mar 21	3.8ft
Nantucket Massachusetts	1135	EDT Mar 21	0.7ft
DART 44401 US	1114	EDT Mar 21	0.8ft
Ocean City Maryland	1115	EDT Mar 21	7.2ft
New London Connecticut	1126	EDT Mar 21	1.9ft
DART 41420 US	1118	EDT Mar 21	1.9ft
Duck North Carolina	1117	EDT Mar 21	8.5ft
DART 41421 US	1126	EDT Mar 21	1.3ft
Atlantic City NJ	1132	EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150	EDT Mar 21	1.3ft
Lewes Delaware	1144	EDT Mar 21	2.0ft
Quonset Point RI	1127	EDT Mar 21	2.4ft
Beaufort North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point Virginia	1348	EDT Mar 21	0.1ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude            7.5  
 \* Origin Time            0900 EDT Mar 21 2018  
                               0800 CDT Mar 21 2018

## LANTEX 18 Exercise Handbook

0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### 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](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 60 minutes.

\$\$

### **NTWC Message #15**

WEXX30 PAAQ 212205  
TSUATE

### BULLETIN

Public Tsunami Message Number 15  
NWS National Tsunami Warning Center Palmer AK  
605 PM EDT Wed Mar 21 2018

### UPDATES

-----

\* Updated observations

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

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

Tsunami Warning in Effect for;

\* The coastal areas of Florida, Georgia, South Carolina,  
North Carolina, Virginia, Maryland, Delaware, New Jersey,

## LANTEX 18 Exercise Handbook

New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia and Newfoundland from Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

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

SITE	FORECAST START OF TSUNAMI
----	-----
* Florida	
Saint Petersburg	1815 EDT Mar 21
* Texas	
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### 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
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft

## LANTEX 18 Exercise Handbook

Duck North Carolina	1117	EDT Mar 21	8.5ft
DART 41421 US	1126	EDT Mar 21	1.3ft
Atlantic City NJ	1132	EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150	EDT Mar 21	1.3ft
Lewes Delaware	1144	EDT Mar 21	2.0ft
Quonset Point RI	1127	EDT Mar 21	2.4ft
Beaufort North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point Virginia	1348	EDT Mar 21	0.1ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude            7.5

\* Origin Time            0900 EDT Mar 21 2018  
                               0800 CDT Mar 21 2018  
                               0900 AST Mar 21 2018  
                               1300 UTC Mar 21 2018

\* Coordinates            40.0 North 70.0 West

\* Depth                    28 miles

\* Location                90 miles S of Nantucket, Massachusetts  
                               170 miles SE of Boston, Massachusetts

## LANTEX 18 Exercise Handbook

### 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 60 minutes.

\$\$

### **NTWC Message #16**

WEXX30 PAAQ 212307

TSUATE

#### BULLETIN

Public Tsunami Message Number 16

NWS National Tsunami Warning Center Palmer AK

707 PM EDT Wed Mar 21 2018

#### UPDATES

-----

- \* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

## LANTEX 18 Exercise Handbook

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida
- \* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

### FORECASTS OF TSUNAMI ACTIVITY

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

SITE	FORECAST START OF TSUNAMI
----	-----
* Florida	
Saint Petersburg	1815 EDT Mar 21
* Texas	
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### 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
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft



## LANTEX 18 Exercise Handbook

San Juan TG Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point Virginia	1348	EDT Mar 21	0.1ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft
Annapolis Maryland	1807	EDT Mar 21	0.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 7.5  
\* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### RECOMMENDED ACTIONS

-----

\* See message number 4 for recommended actions.

### IMPACTS

-----

## LANTEX 18 Exercise Handbook

\* 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 60 minutes.

\$\$

### **NTWC Message #17**

WEXX30 PAAQ 220005  
TSUATE

#### BULLETIN

Public Tsunami Message Number 17  
NWS National Tsunami Warning Center Palmer AK  
805 PM EDT Wed Mar 21 2018

#### UPDATES

-----

\* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

\* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida

\* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

## LANTEX 18 Exercise Handbook

### 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
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fort Point NH	1219 EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205 EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209 EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212 EDT Mar 21	6.9ft
Virgin Gorda VG	1209 EDT Mar 21	6.9ft
Christiansted VI	1218 EDT Mar 21	4.1ft
New Haven Connecticut	1249 EDT Mar 21	0.2ft
The US/Canada Border US	1205 EDT Mar 21	1.2ft
Vieques Is. north PR	1229 EDT Mar 21	5.6ft
Bar Harbor Maine	1237 EDT Mar 21	2.0ft
Lameshur Bay VI	1223 EDT Mar 21	2.3ft
Limetree Bay VI	1229 EDT Mar 21	2.4ft
Fall River MA	1156 EDT Mar 21	1.0ft
Wrightsville Beach NC	1231 EDT Mar 21	5.1ft
Magueyes Island PR	1232 EDT Mar 21	2.0ft
Kiptopeke Virginia	1219 EDT Mar 21	0.6ft
Bergen Point New Jersey	1207 EDT Mar 21	1.2ft
Portland Maine	1237 EDT Mar 21	0.9ft
Culebra Puerto Rico	1229 EDT Mar 21	9.0ft
Charlotte Amalie VI	1234 EDT Mar 21	7.0ft
Bridgeport Connecticut	1253 EDT Mar 21	0.5ft
Windmill Point Virginia	1348 EDT Mar 21	0.1ft
Boston Massachusetts	1243 EDT Mar 21	0.6ft
Ship John Shoal NJ	1313 EDT Mar 21	0.3ft
Providence Rhode Island	1220 EDT Mar 21	0.8ft

## LANTEX 18 Exercise Handbook

Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft
Annapolis Maryland	1807	EDT Mar 21	0.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 7.5  
\* Origin Time 0900 EDT Mar 21 2018  
0800 CDT Mar 21 2018  
0900 AST Mar 21 2018  
1300 UTC Mar 21 2018  
\* Coordinates 40.0 North 70.0 West  
\* Depth 28 miles  
\* Location 90 miles S of Nantucket, Massachusetts  
170 miles SE of Boston, Massachusetts

### 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](http://tsunami.gov) for more information.

\* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).

\* This message will be updated within 60 minutes.

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### **NTWC Message #18**

WEXX30 PAAQ 220105  
TSUATE

#### BULLETIN

Public Tsunami Message Number 18  
NWS National Tsunami Warning Center Palmer AK  
905 PM EDT Wed Mar 21 2018

#### UPDATES

## LANTEX 18 Exercise Handbook

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\* Updated observations

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

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

Tsunami Warning 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 Ocean Reef, Florida to La Manche, Newfoundland

Tsunami Advisory in Effect for;

\* The coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida from Brownsville, Texas to Ocean Reef, Florida

\* The coastal areas of Newfoundland and Labrador from La Manche, Newfoundland to Cape Chidley, Labrador

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
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft

## LANTEX 18 Exercise Handbook

Beaufort North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point Virginia	1348	EDT Mar 21	0.1ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft
Annapolis Maryland	1807	EDT Mar 21	0.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude            7.5

\* Origin Time            0900 EDT Mar 21 2018  
                               0800 CDT Mar 21 2018  
                               0900 AST Mar 21 2018  
                               1300 UTC Mar 21 2018

\* Coordinates          40.0 North 70.0 West

\* Depth                  28 miles

\* Location                90 miles S of Nantucket, Massachusetts  
                               170 miles SE of Boston, Massachusetts

### RECOMMENDED ACTIONS

-----

\* See message number 4 for recommended actions.

## LANTEX 18 Exercise Handbook

### 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 60 minutes.

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### **NTWC Message #19**

WEXX30 PAAQ 220205  
TSUATE

#### BULLETIN

Public Tsunami Message Number 19  
NWS National Tsunami Warning Center Palmer AK  
1005 PM EDT Wed Mar 21 2018

...THE TSUNAMI WARNING AND ADVISORY ARE CANCELLED...

- \* The Tsunami Advisory is canceled for the coastal areas of Texas, Louisiana, Mississippi, Alabama and Florida
- \* The Tsunami Warning 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
- \* The Tsunami Advisory is canceled for the coastal areas of Newfoundland and Labrador

### OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

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- \* 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
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft

## LANTEX 18 Exercise Handbook

Oregon Inlet NC	1057	EDT Mar 21	8.7ft
Woods Hole MA	1123	EDT Mar 21	2.2ft
Newport Rhode Island	1110	EDT Mar 21	3.8ft
Nantucket Massachusetts	1135	EDT Mar 21	0.7ft
DART 44401 US	1114	EDT Mar 21	0.8ft
Ocean City Maryland	1115	EDT Mar 21	7.2ft
New London Connecticut	1126	EDT Mar 21	1.9ft
DART 41420 US	1118	EDT Mar 21	1.9ft
Duck North Carolina	1117	EDT Mar 21	8.5ft
DART 41421 US	1126	EDT Mar 21	1.3ft
Atlantic City NJ	1132	EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150	EDT Mar 21	1.3ft
Lewes Delaware	1144	EDT Mar 21	2.0ft
Quonset Point RI	1127	EDT Mar 21	2.4ft
Beaufort North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point Virginia	1348	EDT Mar 21	0.1ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft
Annapolis Maryland	1807	EDT Mar 21	0.1ft

### RECOMMENDED ACTIONS - UPDATED

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



## LANTEX 18 Exercise Handbook

### 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](http://tsunami.gov) for more information.
- \* Caribbean coastal regions should refer to the Pacific Tsunami Warning Center messages at [tsunami.gov](http://tsunami.gov).
- \* This will be the final U.S. National Tsunami Warning Center message issued for this event.

\$\$

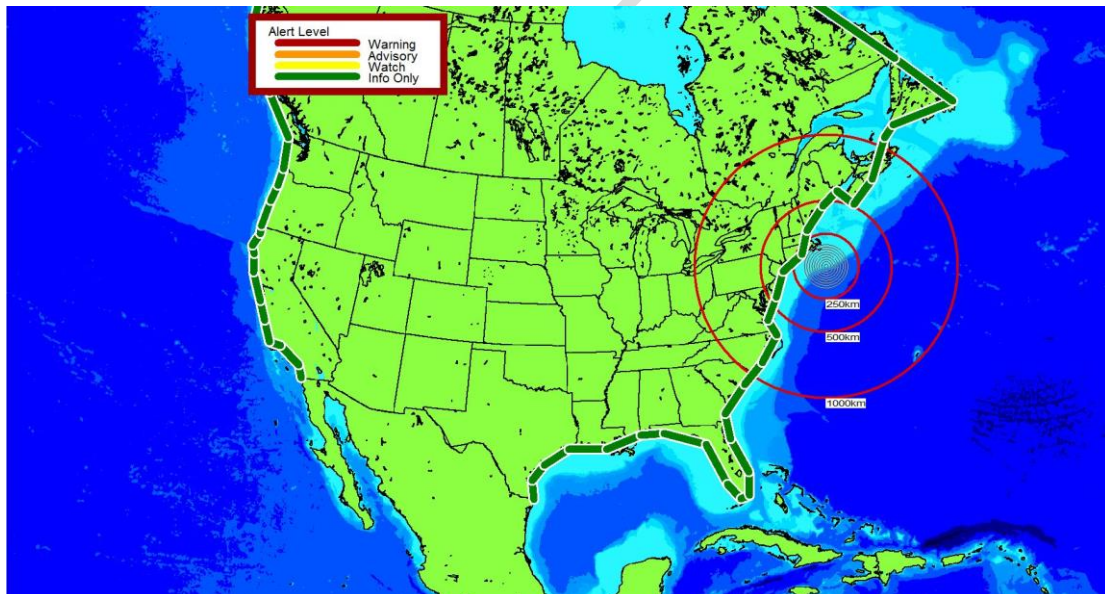


Figure D4: Alert Level after cancellation.

### **NTWC Spanish Message #1**

WEXX40 PAAQ 211305  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 1  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
905 AM EDT Wed Mar 21 2018

## LANTEX 18 Exercise Handbook

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

Aviso de Tsunami en Efecto para;

- \* Areas costeras de New Jersey, New York, Connecticut, Rhode Island y Massachusetts desde Sandy Hook, New Jersey hasta Merrimack River, Massachusetts

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

-----

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

- \* Magnitud 7.5
- \* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018
- \* Coordenadas 40.0 Norte 70.0 Oeste
- \* Profundidad 28 millas
- \* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### PRONOSTICOS DEL TSUNAMI

-----

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21

### OBSERVACIONES DEL TSUNAMI

-----

- \* No hay observaciones del tsunami disponibles para reportar.

## LANTEX 18 Exercise Handbook

### ACCIONES RECOMENDADAS

-----

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

Si usted esta en un area de aviso;

- \* Desaloje tierra adentro o a un lugar alto fuera de la zona de inundacion por tsunami o muevase a un piso alto de un edificio multipiso segun sea su situacion.
- \* 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.

### IMPACTOS

-----

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

Si usted esta en un area de aviso;

- \* Es posible un tsunami con olas destructivas y corrientes fuertes.
- \* Posibles inundaciones costeras repetidas cuando las olas lleguen a la costa, se mueven tierra adentro, y retroceden al oceano.
- \* Olas fuertes e inusuales, corrientes e inundaciones pueden ahogar o herir personas y debilitar o destruir estructuras en tierra y dentro del agua.

## LANTEX 18 Exercise Handbook

- \* Agua con objetos flotantes o sumergidos pueden herir o causar la muerte a personas o destruir edificios y puentes.
- \* Corrientes y olas fuertes e inusuales en puertos, marinas, bahias, y ensenadas pueden ser especialmente destructivas.
- \* 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

-----

- \* Para acceder a informacion adicional consulte el sitio de internet [tsunami.gov](http://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](http://tsunami.gov).
- \* Este mensaje sera actualizado en 30 minutos.

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### **NTWC Spanish Message #2**

WEXX40 PAAQ 211337  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 2  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
937 AM EDT Wed Mar 21 2018

## LANTEX 18 Exercise Handbook

### ACTUALIZACIONES

-----

- \* Nuevas observaciones

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

Aviso de Tsunami en Efecto para;

- \* Areas costeras de New Jersey, New York, Connecticut, Rhode Island y Massachusetts desde Sandy Hook, New Jersey hasta Merrimack River, Massachusetts

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

-----

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

- \* Magnitud 7.5
- \* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018
- \* Coordenadas 40.0 Norte 70.0 Oeste
- \* Profundidad 28 millas
- \* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### PRONOSTICOS DEL TSUNAMI

-----

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21

## LANTEX 18 Exercise 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft

### ACCIONES RECOMENDADAS

-----

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

Si usted esta en un area de aviso;

- \* Desaloje tierra adentro o a un lugar alto fuera de la zona de inundacion por tsunami o muevase a un piso alto de un edificio multipiso segun sea su situacion.
- \* 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.

### IMPACTOS

-----

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

## LANTEX 18 Exercise Handbook

Si usted esta en un area de aviso;

- \* Es posible un tsunami con olas destructivas y corrientes fuertes.
- \* Posibles inundaciones costeras repetidas cuando las olas lleguen a la costa, se mueven tierra adentro, y retroceden al oceano.
- \* Olas fuertes e inusuales, corrientes e inundaciones pueden ahogar o herir personas y debilitar o destruir estructuras en tierra y dentro del agua.
- \* Agua con objetos flotantes o sumergidos pueden herir o causar la muerte a personas o destruir edificios y puentes.
- \* Corrientes y olas fuertes e inusuales en puertos, marinas, bahias, y ensenadas pueden ser especialmente destructivas.
- \* 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

-----

- \* Para acceder a informacion adicional consulte el sitio de internet [tsunami.gov](http://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](http://tsunami.gov).

## LANTEX 18 Exercise Handbook

\* Este mensaje sera actualizado en 30 minutos.

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### **NTWC Spanish Message #3**

WEXX40 PAAQ 211410

TSUSPA

BULLETIN

Mensaje de Tsunami numero 3

NWS Centro Nacional de Alerta de Tsunami Palmer AK

1010 AM EDT Wed Mar 21 2018

ACTUALIZACIONES

-----

- \* Nuevas observaciones
- \* Modifica las regiones bajo alerta

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

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

Aviso de Tsunami en Efecto para;

- \* Areas costeras de Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware y New Jersey desde Ocean Reef, Florida hasta Sandy Hook, New Jersey
- \* Areas costeras de New Jersey, New York, Connecticut, Rhode Island y Massachusetts desde Sandy Hook, New Jersey hasta Merrimack River, Massachusetts
- \* Areas costeras de Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia y Newfoundland desde Merrimack River, Massachusetts hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

PRONOSTICOS DEL TSUNAMI

-----

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



## LANTEX 18 Exercise Handbook

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----
* North Carolina	
Cape Hatteras	1050 EDT Mar 21
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21
* Nova Scotia	
Lockeport	1220 ADT Mar 21
Scatarie Island	1335 ADT Mar 21
* New Jersey	
Atlantic City	1130 EDT Mar 21
* Virginia	
Virginia Beach	1155 EDT Mar 21
* New Brunswick	
Grand Manan Isla	1330 ADT Mar 21
* Maine	
Portland	1240 EDT Mar 21
* Florida	
Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland	
Saint Lawrence	1420 NDT Mar 21
Bonavista	1625 NDT Mar 21
* South Carolina	
Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21
* Georgia	
Savannah	1355 EDT Mar 21
* Labrador	
Battle Harbour	1655 NDT Mar 21
Cape Makkovik	1630 ADT Mar 21

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\* Texas  
Corpus Christi 1605 CDT Mar 21  
Galveston 1720 CDT Mar 21

\* Mississippi  
Biloxi 1715 CDT Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

-----

\* Magnitud 7.5  
\* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018  
\* Coordenadas 40.0 Norte 70.0 Oeste  
\* Profundidad 28 millas  
\* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### ACCIONES RECOMENDADAS - ACTUALIZADAS

-----

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

Si usted esta en un area de aviso;

\* Desaloje tierra adentro o a un lugar alto fuera de la zona de inundacion por tsunami o muevase a un piso alto de un edificio multipiso segun sea su situacion.

Si usted esta en un area de aviso o 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

## LANTEX 18 Exercise Handbook

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.

### IMPACTOS

-----

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

Si usted esta en un area de aviso;

- \* Es posible un tsunami con olas destructivas y corrientes fuertes.
- \* Posibles inundaciones costeras repetidas cuando las olas lleguen a la costa, se mueven tierra adentro, y retroceden al oceano.
- \* Olas fuertes e inusuales, corrientes e inundaciones pueden ahogar o herir personas y debilitar o destruir estructuras en tierra y dentro del agua.
- \* Agua con objetos flotantes o sumergidos pueden herir o causar la muerte a personas o destruir edificios y puentes.
- \* Corrientes y olas fuertes e inusuales en puertos, marinas, bahias, y ensenadas pueden ser especialmente destructivas.

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.

Si usted esta en un area de aviso o advertencia;

- \* Algunos impactos pueden continuar por muchas horas hasta

## LANTEX 18 Exercise Handbook

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 Spanish Message #4**

WEXX40 PAAQ 211435  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 4  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
1035 AM EDT Wed Mar 21 2018

#### ACTUALIZACIONES

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- \* Nuevas observaciones

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

## LANTEX 18 Exercise Handbook

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

-----

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* North Carolina	
Cape Hatteras	1050 EDT Mar 21
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21
* Nova Scotia	
Lockeport	1220 ADT Mar 21
Scatarie Island	1335 ADT Mar 21
* New Jersey	
Atlantic City	1130 EDT Mar 21
* Virginia	
Virginia Beach	1155 EDT Mar 21
* New Brunswick	
Grand Manan Isla	1330 ADT Mar 21

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\* Maine  
Portland 1240 EDT Mar 21

\* Florida  
Miami 1245 EDT Mar 21  
Daytona 1320 EDT Mar 21  
Key West 1325 EDT Mar 21  
Melbourne Beach 1330 EDT Mar 21  
Jacksonville Bea 1340 EDT Mar 21  
Panama City 1520 CDT Mar 21  
Saint Petersburg 1815 EDT Mar 21

\* Newfoundland  
Saint Lawrence 1420 NDT Mar 21  
Bonavista 1625 NDT Mar 21

\* South Carolina  
Myrtle Beach 1320 EDT Mar 21  
Charleston 1340 EDT Mar 21

\* Georgia  
Savannah 1355 EDT Mar 21

\* Labrador  
Battle Harbour 1655 NDT Mar 21  
Cape Makkovik 1630 ADT Mar 21

\* Texas  
Corpus Christi 1605 CDT Mar 21  
Galveston 1720 CDT Mar 21

\* Mississippi  
Biloxi 1715 CDT Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

-----  
\* Magnitud 7.5  
\* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018

## LANTEX 18 Exercise Handbook

0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018  
\* Coordenadas 40.0 Norte 70.0 Oeste  
\* Profundidad 28 millas  
\* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### ACCIONES RECOMENDADAS - ACTUALIZADAS

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

Si usted esta en un area de aviso;

- \* Desaloje tierra adentro o a un lugar alto fuera de la zona de inundacion por tsunami o muevase a un piso alto de un edificio multipiso segun sea su situacion.

Si usted esta en un area de aviso o 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.

### IMPACTOS

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

Si usted esta en un area de aviso;

- \* Es posible un tsunami con olas destructivas y corrientes

## LANTEX 18 Exercise Handbook

fuertes.

- \* Posibles inundaciones costeras repetidas cuando las olas lleguen a la costa, se mueven tierra adentro, y retroceden al oceano.
- \* Olas fuertes e inusuales, corrientes e inundaciones pueden ahogar o herir personas y debilitar o destruir estructuras en tierra y dentro del agua.
- \* Agua con objetos flotantes o sumergidos pueden herir o causar la muerte a personas o destruir edificios y puentes.
- \* Corrientes y olas fuertes e inusuales en puertos, marinas, bahias, y ensenadas pueden ser especialmente destructivas.

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.

Si usted esta en un area de aviso o advertencia;

- \* 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.



## LANTEX 18 Exercise Handbook

### 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 Message #5**

WEXX40 PAAQ 211506  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 5  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
1106 AM EDT Wed Mar 21 2018

#### ACTUALIZACIONES

---

- \* Nuevas observaciones

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

#### PRONOSTICOS DEL TSUNAMI

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- \* Se pronostica que la actividad del tsunami comience en los

## LANTEX 18 Exercise Handbook

siguientes puntos a loas horas indicadas.

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----
* North Carolina	
Cape Hatteras	1050 EDT Mar 21
* New York	
Montauk	1050 EDT Mar 21
Manhattan	1230 EDT Mar 21
* Massachusetts	
Nantucket	1115 EDT Mar 21
Boston	1255 EDT Mar 21
* Nova Scotia	
Lockeport	1220 ADT Mar 21
Scatarie Island	1335 ADT Mar 21
* New Jersey	
Atlantic City	1130 EDT Mar 21
* Virginia	
Virginia Beach	1155 EDT Mar 21
* New Brunswick	
Grand Manan Isla	1330 ADT Mar 21
* Maine	
Portland	1240 EDT Mar 21
* Florida	
Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland	
Saint Lawrence	1420 NDT Mar 21
Bonavista	1625 NDT Mar 21
* South Carolina	
Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21
* Georgia	
Savannah	1355 EDT Mar 21
* Labrador	
Battle Harbour	1655 NDT Mar 21

## LANTEX 18 Exercise Handbook

Cape Makkovik 1630 ADT Mar 21

\* Texas

Corpus Christi 1605 CDT Mar 21

Galveston 1720 CDT Mar 21

\* Mississippi

Biloxi 1715 CDT Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

\* Magnitud 7.5

\* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018

\* Coordenadas 40.0 Norte 70.0 Oeste

\* Profundidad 28 millas

\* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### ACCIONES RECOMENDADAS

---

\* Ver mensaje numero 4 para acciones recomendadas.

### IMPACTOS

---

\* Ver mensaje numero 4 para posibles impactos.

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

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\* Para acceder a informacion adicional consulte el sitio de internet [tsunami.gov](http://tsunami.gov).

\* Regiones costeras del Caribe deben consultar los mensajes

## LANTEX 18 Exercise Handbook

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 Message #6**

WEXX40 PAAQ 211540  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 6  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
1140 AM EDT Wed Mar 21 2018

ACTUALIZACIONES

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\* Nuevas observaciones

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

\* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida  
\* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

PRONOSTICOS DEL TSUNAMI

-----

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----

## LANTEX 18 Exercise Handbook

\* North Carolina  
Cape Hatteras 1050 EDT Mar 21

\* New York  
Montauk 1050 EDT Mar 21  
Manhattan 1230 EDT Mar 21

\* Massachusetts  
Nantucket 1115 EDT Mar 21  
Boston 1255 EDT Mar 21

\* Nova Scotia  
Lockeport 1220 ADT Mar 21  
Scatarie Island 1335 ADT Mar 21

\* New Jersey  
Atlantic City 1130 EDT Mar 21

\* Virginia  
Virginia Beach 1155 EDT Mar 21

\* New Brunswick  
Grand Manan Isla 1330 ADT Mar 21

\* Maine  
Portland 1240 EDT Mar 21

\* Florida  
Miami 1245 EDT Mar 21  
Daytona 1320 EDT Mar 21  
Key West 1325 EDT Mar 21  
Melbourne Beach 1330 EDT Mar 21  
Jacksonville Bea 1340 EDT Mar 21  
Panama City 1520 CDT Mar 21  
Saint Petersburg 1815 EDT Mar 21

\* Newfoundland  
Saint Lawrence 1420 NDT Mar 21  
Bonavista 1625 NDT Mar 21

\* South Carolina  
Myrtle Beach 1320 EDT Mar 21  
Charleston 1340 EDT Mar 21

\* Georgia  
Savannah 1355 EDT Mar 21

\* Labrador  
Battle Harbour 1655 NDT Mar 21  
Cape Makkovik 1630 ADT Mar 21

\* Texas  
Corpus Christi 1605 CDT Mar 21  
Galveston 1720 CDT Mar 21

## LANTEX 18 Exercise Handbook

\* Mississippi  
Biloxi 1715 CDT Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Quonset Point RI	1127 EDT Mar 21	2.4ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

-----

\* Magnitud 7.5  
\* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018  
\* Coordenadas 40.0 Norte 70.0 Oeste  
\* Profundidad 28 millas  
\* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### ACCIONES RECOMENDADAS

-----

\* Ver mensaje numero 4 para acciones recomendadas.

### IMPACTOS

-----

\* Ver mensaje numero 4 para posibles impactos.

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

## LANTEX 18 Exercise 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 Message #7**

WEXX40 PAAQ 211610  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 7  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
1210 PM EDT Wed Mar 21 2018

#### ACTUALIZACIONES

- 
- \* Nuevas observaciones

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

#### PRONOSTICOS DEL TSUNAMI

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

## LANTEX 18 Exercise Handbook

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----		
* New York			
Manhattan	1230	EDT	Mar 21
* Massachusetts			
Nantucket	1115	EDT	Mar 21
Boston	1255	EDT	Mar 21
* Nova Scotia			
Lockeport	1220	ADT	Mar 21
Scatarie Island	1335	ADT	Mar 21
* New Jersey			
Atlantic City	1130	EDT	Mar 21
* Virginia			
Virginia Beach	1155	EDT	Mar 21
* New Brunswick			
Grand Manan Isla	1330	ADT	Mar 21
* Maine			
Portland	1240	EDT	Mar 21
* Florida			
Miami	1245	EDT	Mar 21
Daytona	1320	EDT	Mar 21
Key West	1325	EDT	Mar 21
Melbourne Beach	1330	EDT	Mar 21
Jacksonville Bea	1340	EDT	Mar 21
Panama City	1520	CDT	Mar 21
Saint Petersburg	1815	EDT	Mar 21
* Newfoundland			
Saint Lawrence	1420	NDT	Mar 21
Bonavista	1625	NDT	Mar 21
* South Carolina			
Myrtle Beach	1320	EDT	Mar 21
Charleston	1340	EDT	Mar 21
* Georgia			
Savannah	1355	EDT	Mar 21
* Labrador			
Battle Harbour	1655	NDT	Mar 21
Cape Makkovik	1630	ADT	Mar 21
* Texas			
Corpus Christi	1605	CDT	Mar 21
Galveston	1720	CDT	Mar 21



## LANTEX 18 Exercise Handbook

\* Mississippi  
Biloxi 1715 CDT Mar 21

### 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 LUGAR TSUNAMI	HORA DE LA MEDICION	ALTURA MAX DEL
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fall River MA	1156 EDT Mar 21	1.0ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

\* Magnitud 7.5  
 \* Tiempo de Origen 0900 EDT Marzo 21 2018  
                           0800 CDT Marzo 21 2018  
                           0900 AST Marzo 21 2018  
                           1300 UTC Marzo 21 2018  
 \* Coordenadas 40.0 Norte 70.0 Oeste  
 \* Profundidad 28 millas  
 \* Localizacion 90 millas S de Nantucket, Massachusetts  
                   170 millas SE de Boston, Massachusetts

### ACCIONES RECOMENDADAS

## LANTEX 18 Exercise Handbook

-----

\* 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 Message #8**

WEXX40 PAAQ 211650

TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 8

NWS Centro Nacional de Alerta de Tsunami Palmer AK

1250 PM EDT Wed Mar 21 2018

#### ACTUALIZACIONES

-----

\* Nuevas observaciones

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

\* Areas costeras de Texas, Louisiana, Mississippi, Alabama y

## LANTEX 18 Exercise Handbook

Florida desde Brownsville, Texas hasta Ocean Reef, Florida

- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

-----

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* New York Manhattan	1230 EDT Mar 21
* Massachusetts Boston	1255 EDT Mar 21
* Nova Scotia Scatarie Island	1335 ADT Mar 21
* Virginia Virginia Beach	1155 EDT Mar 21
* New Brunswick Grand Manan Isla	1330 ADT Mar 21
* Maine Portland	1240 EDT Mar 21
* Florida Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Newfoundland Saint Lawrence	1420 NDT Mar 21
Bonavista	1625 NDT Mar 21
* South Carolina Myrtle Beach	1320 EDT Mar 21
Charleston	1340 EDT Mar 21
* Georgia Savannah	1355 EDT Mar 21
* Labrador Battle Harbour	1655 NDT Mar 21

## LANTEX 18 Exercise Handbook

Cape Makkovik 1630 ADT Mar 21

\* Texas

Corpus Christi 1605 CDT Mar 21

Galveston 1720 CDT Mar 21

\* Mississippi

Biloxi 1715 CDT Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fort Point NH	1219 EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205 EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209 EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212 EDT Mar 21	6.9ft
Virgin Gorda VG	1209 EDT Mar 21	6.9ft
Christiansted VI	1218 EDT Mar 21	4.1ft
The US/Canada Border US	1205 EDT Mar 21	1.2ft
Vieques Is. north PR	1229 EDT Mar 21	5.6ft
Lameshur Bay VI	1223 EDT Mar 21	2.3ft
Limetree Bay VI	1229 EDT Mar 21	2.4ft
Fall River MA	1156 EDT Mar 21	1.0ft
Wrightsville Beach NC	1231 EDT Mar 21	5.1ft
Magueyes Island PR	1232 EDT Mar 21	2.0ft
Kiptopeke Virginia	1219 EDT Mar 21	0.6ft
Bergen Point New Jersey	1207 EDT Mar 21	1.2ft

## LANTEX 18 Exercise Handbook

Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

-----

\* Magnitud 7.5  
\* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018  
\* Coordenadas 40.0 Norte 70.0 Oeste  
\* Profundidad 28 millas  
\* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### 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](http://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](http://tsunami.gov).
- \* Este mensaje sera actualizado en 30 minutos.

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### **NTWC Spanish Message #9**

WEXX40 PAAQ 211712  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 9  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
112 PM EDT Wed Mar 21 2018

### ACTUALIZACIONES

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\* Nuevas observaciones

## LANTEX 18 Exercise Handbook

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

-----

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* New York Manhattan	1230 EDT Mar 21
* Massachusetts Boston	1255 EDT Mar 21
* Nova Scotia Scatarie Island	1335 ADT Mar 21
* New Brunswick Grand Manan Isla	1330 ADT Mar 21
* Maine Portland	1240 EDT Mar 21
* Florida Miami	1245 EDT Mar 21
Daytona	1320 EDT Mar 21
Key West	1325 EDT Mar 21
Melbourne Beach	1330 EDT Mar 21
Jacksonville Bea	1340 EDT Mar 21

## LANTEX 18 Exercise Handbook

Panama City 1520 CDT Mar 21  
 Saint Petersburg 1815 EDT Mar 21

\* Newfoundland

Saint Lawrence 1420 NDT Mar 21  
 Bonavista 1625 NDT Mar 21

\* South Carolina

Myrtle Beach 1320 EDT Mar 21  
 Charleston 1340 EDT Mar 21

\* Georgia

Savannah 1355 EDT Mar 21

\* Labrador

Battle Harbour 1655 NDT Mar 21  
 Cape Makkovik 1630 ADT Mar 21

\* Texas

Corpus Christi 1605 CDT Mar 21  
 Galveston 1720 CDT Mar 21

\* Mississippi

Biloxi 1715 CDT Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft

## LANTEX 18 Exercise Handbook

Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

- \* Magnitud 7.5
- \* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018
- \* Coordenadas 40.0 Norte 70.0 Oeste
- \* Profundidad 28 millas
- \* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### 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](http://tsunami.gov).



## LANTEX 18 Exercise Handbook

\* 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.

\$\$

### NTWC Spanish Message #10

WEXX40 PAAQ 211742  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 10

NWS Centro Nacional de Alerta de Tsunami Palmer AK

142 PM EDT Wed Mar 21 2018

ACTUALIZACIONES

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\* Nuevas observaciones

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

\* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida

\* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

PRONOSTICOS DEL TSUNAMI

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
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## LANTEX 18 Exercise Handbook

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* Massachusetts
Boston          1255  EDT Mar 21

* Florida
Miami           1245  EDT Mar 21
Daytona         1320  EDT Mar 21
Key West        1325  EDT Mar 21
Melbourne Beach 1330  EDT Mar 21
Jacksonville Bea 1340  EDT Mar 21
Panama City     1520  CDT Mar 21
Saint Petersburg 1815  EDT Mar 21

* Newfoundland
Saint Lawrence  1420  NDT Mar 21
Bonavista      1625  NDT Mar 21

* South Carolina
Myrtle Beach    1320  EDT Mar 21
Charleston      1340  EDT Mar 21

* Georgia
Savannah       1355  EDT Mar 21

* Labrador
Battle Harbour  1655  NDT Mar 21
Cape Makkovik  1630  ADT Mar 21

* Texas
Corpus Christi  1605  CDT Mar 21
Galveston       1720  CDT Mar 21

* Mississippi
Biloxi          1715  CDT Mar 21
    
```

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft

## LANTEX 18 Exercise Handbook

New London Connecticut	1126	EDT Mar 21	1.9ft
DART 41420 US	1118	EDT Mar 21	1.9ft
Duck North Carolina	1117	EDT Mar 21	8.5ft
DART 41421 US	1126	EDT Mar 21	1.3ft
Atlantic City NJ	1132	EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150	EDT Mar 21	1.3ft
Lewes Delaware	1144	EDT Mar 21	2.0ft
Quonset Point RI	1127	EDT Mar 21	2.4ft
Beaufort North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud	7.5
* Tiempo de Origen	0900 EDT Marzo 21 2018
	0800 CDT Marzo 21 2018
	0900 AST Marzo 21 2018
	1300 UTC Marzo 21 2018
* Coordenadas	40.0 Norte 70.0 Oeste
* Profundidad	28 millas
* Localizacion	90 millas S de Nantucket, Massachusetts
	170 millas SE de Boston, Massachusetts

## LANTEX 18 Exercise Handbook

### ACCIONES RECOMENDADAS

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- \* 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 Message #11**

WEXX40 PAAQ 211807  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 11  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
207 PM EDT Wed Mar 21 2018

#### ACTUALIZACIONES

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- \* Nuevas observaciones

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

## LANTEX 18 Exercise Handbook

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI		
-----	-----		
* Florida			
Daytona	1320	EDT	Mar 21
Key West	1325	EDT	Mar 21
Melbourne Beach	1330	EDT	Mar 21
Jacksonville Bea	1340	EDT	Mar 21
Panama City	1520	CDT	Mar 21
Saint Petersburg	1815	EDT	Mar 21
* Newfoundland			
Bonavista	1625	NDT	Mar 21
* South Carolina			
Myrtle Beach	1320	EDT	Mar 21
Charleston	1340	EDT	Mar 21
* Georgia			
Savannah	1355	EDT	Mar 21
* Labrador			
Battle Harbour	1655	NDT	Mar 21
Cape Makkovik	1630	ADT	Mar 21
* Texas			
Corpus Christi	1605	CDT	Mar 21
Galveston	1720	CDT	Mar 21
* Mississippi			
Biloxi	1715	CDT	Mar 21

### OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

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- \* 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
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## LANTEX 18 Exercise Handbook

DART 44402	US	0910	EDT Mar 21	7.1ft
DART 41424	US	1008	EDT Mar 21	2.7ft
Bermuda	Bermuda	1029	EDT Mar 21	3.8ft
Montauk	New York	1102	EDT Mar 21	6.4ft
Oregon Inlet	NC	1057	EDT Mar 21	8.7ft
Woods Hole	MA	1123	EDT Mar 21	2.2ft
Newport	Rhode Island	1110	EDT Mar 21	3.8ft
Nantucket	Massachusetts	1135	EDT Mar 21	0.7ft
DART 44401	US	1114	EDT Mar 21	0.8ft
Ocean City	Maryland	1115	EDT Mar 21	7.2ft
New London	Connecticut	1126	EDT Mar 21	1.9ft
DART 41420	US	1118	EDT Mar 21	1.9ft
Duck	North Carolina	1117	EDT Mar 21	8.5ft
DART 41421	US	1126	EDT Mar 21	1.3ft
Atlantic City	NJ	1132	EDT Mar 21	10.3ft
Sandy Hook	New Jersey	1150	EDT Mar 21	1.3ft
Lewes	Delaware	1144	EDT Mar 21	2.0ft
Quonset Point	RI	1127	EDT Mar 21	2.4ft
Beaufort	North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla	Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG	Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May	New Jersey	1153	EDT Mar 21	2.3ft
Fort Point	NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge	VA	1205	EDT Mar 21	1.2ft
Mona Island	Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez	Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda	VG	1209	EDT Mar 21	6.9ft
Christiansted	VI	1218	EDT Mar 21	4.1ft
New Haven	Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border	US	1205	EDT Mar 21	1.2ft
Vieques Is. north	PR	1229	EDT Mar 21	5.6ft
Bar Harbor	Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay	VI	1223	EDT Mar 21	2.3ft
Limetree Bay	VI	1229	EDT Mar 21	2.4ft
Fall River	MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach	NC	1231	EDT Mar 21	5.1ft
Magueyes Island	PR	1232	EDT Mar 21	2.0ft
Kiptopeke	Virginia	1219	EDT Mar 21	0.6ft
Bergen Point	New Jersey	1207	EDT Mar 21	1.2ft
Portland	Maine	1237	EDT Mar 21	0.9ft
Culebra	Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie	VI	1234	EDT Mar 21	7.0ft
Bridgeport	Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point	Virginia	1348	EDT Mar 21	0.1ft
Boston	Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal	NJ	1313	EDT Mar 21	0.3ft
Providence	Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral	Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier	SC	1314	EDT Mar 21	5.0ft
Kings Point	New York	1359	EDT Mar 21	0.6ft
Flagler Beach	Florida	1314	EDT Mar 21	7.1ft
Charleston	SC	1325	EDT Mar 21	1.1ft

PARAMETROS PRELIMINARES DEL TERREMOTO

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## LANTEX 18 Exercise Handbook

\* Magnitud 7.5  
\* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018  
\* Coordenadas 40.0 Norte 70.0 Oeste  
\* Profundidad 28 millas  
\* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### 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](http://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](http://tsunami.gov).

\* Este mensaje sera actualizado en 60 minutos.

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### **NTWC Spanish Message #12**

WEXX40 PAAQ 211905  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 12  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
305 PM EDT Wed Mar 21 2018

#### ACTUALIZACIONES

-----

\* Nuevas observaciones

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

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

## LANTEX 18 Exercise Handbook

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

-----

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI		
-----	-----		
* Florida			
Panama City	1520	CDT	Mar 21
Saint Petersburg	1815	EDT	Mar 21
* Newfoundland			
Bonavista	1625	NDT	Mar 21
* Labrador			
Battle Harbour	1655	NDT	Mar 21
Cape Makkovik	1630	ADT	Mar 21
* Texas			
Corpus Christi	1605	CDT	Mar 21
Galveston	1720	CDT	Mar 21
* Mississippi			
Biloxi	1715	CDT	Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
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## LANTEX 18 Exercise Handbook

DART 44402	US	0910	EDT	Mar	21	7.1ft
DART 41424	US	1008	EDT	Mar	21	2.7ft
Bermuda	Bermuda	1029	EDT	Mar	21	3.8ft
Montauk	New York	1102	EDT	Mar	21	6.4ft
Oregon Inlet	NC	1057	EDT	Mar	21	8.7ft
Woods Hole	MA	1123	EDT	Mar	21	2.2ft
Newport	Rhode Island	1110	EDT	Mar	21	3.8ft
Nantucket	Massachusetts	1135	EDT	Mar	21	0.7ft
DART 44401	US	1114	EDT	Mar	21	0.8ft
Ocean City	Maryland	1115	EDT	Mar	21	7.2ft
New London	Connecticut	1126	EDT	Mar	21	1.9ft
DART 41420	US	1118	EDT	Mar	21	1.9ft
Duck	North Carolina	1117	EDT	Mar	21	8.5ft
DART 41421	US	1126	EDT	Mar	21	1.3ft
Atlantic City	NJ	1132	EDT	Mar	21	10.3ft
Sandy Hook	New Jersey	1150	EDT	Mar	21	1.3ft
Lewes	Delaware	1144	EDT	Mar	21	2.0ft
Quonset Point	RI	1127	EDT	Mar	21	2.4ft
Beaufort	North Carolina	1201	EDT	Mar	21	0.8ft
Aguadilla	Puerto Rico	1202	EDT	Mar	21	24.5ft
San Juan TG	Puerto Rico	1209	EDT	Mar	21	5.0ft
Cape May	New Jersey	1153	EDT	Mar	21	2.3ft
Fort Point	NH	1219	EDT	Mar	21	1.0ft
Chesapeake Bridge	VA	1205	EDT	Mar	21	1.2ft
Mona Island	Puerto Rico	1209	EDT	Mar	21	2.9ft
Mayaguez	Puerto Rico	1212	EDT	Mar	21	6.9ft
Virgin Gorda	VG	1209	EDT	Mar	21	6.9ft
Christiansted	VI	1218	EDT	Mar	21	4.1ft
New Haven	Connecticut	1249	EDT	Mar	21	0.2ft
The US/Canada Border	US	1205	EDT	Mar	21	1.2ft
Vieques Is. north	PR	1229	EDT	Mar	21	5.6ft
Bar Harbor	Maine	1237	EDT	Mar	21	2.0ft
Lameshur Bay	VI	1223	EDT	Mar	21	2.3ft
Limetree Bay	VI	1229	EDT	Mar	21	2.4ft
Fall River	MA	1156	EDT	Mar	21	1.0ft
Wrightsville Beach	NC	1231	EDT	Mar	21	5.1ft
Magueyes Island	PR	1232	EDT	Mar	21	2.0ft
Kiptopeke	Virginia	1219	EDT	Mar	21	0.6ft
Bergen Point	New Jersey	1207	EDT	Mar	21	1.2ft
Portland	Maine	1237	EDT	Mar	21	0.9ft
Culebra	Puerto Rico	1229	EDT	Mar	21	9.0ft
Charlotte Amalie	VI	1234	EDT	Mar	21	7.0ft
Bridgeport	Connecticut	1253	EDT	Mar	21	0.5ft
Windmill Point	Virginia	1348	EDT	Mar	21	0.1ft
Boston	Massachusetts	1243	EDT	Mar	21	0.6ft
Ship John Shoal	NJ	1313	EDT	Mar	21	0.3ft
Providence	Rhode Island	1220	EDT	Mar	21	0.8ft
Port Canaveral	Florida	1252	EDT	Mar	21	4.7ft
Springmaid Pier	SC	1314	EDT	Mar	21	5.0ft
Kings Point	New York	1359	EDT	Mar	21	0.6ft
Flagler Beach	Florida	1314	EDT	Mar	21	7.1ft
Charleston	SC	1325	EDT	Mar	21	1.1ft

PARAMETROS PRELIMINARES DEL TERREMOTO

## LANTEX 18 Exercise Handbook

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- \* Magnitud 7.5
- \* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018
- \* Coordenadas 40.0 Norte 70.0 Oeste
- \* Profundidad 28 millas
- \* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### 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](http://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](http://tsunami.gov).
- \* Este mensaje sera actualizado en 60 minutos.

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### **NTWC Spanish Message #13**

WEXX40 PAAQ 212008  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 13  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
408 PM EDT Wed Mar 21 2018

#### ACTUALIZACIONES

-----

- \* Nuevas observaciones

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

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

## LANTEX 18 Exercise Handbook

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

-----

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI		
-----	-----		
* Florida			
Panama City	1520	CDT	Mar 21
Saint Petersburg	1815	EDT	Mar 21
* Labrador			
Battle Harbour	1655	NDT	Mar 21
Cape Makkovik	1630	ADT	Mar 21
* Texas			
Corpus Christi	1605	CDT	Mar 21
Galveston	1720	CDT	Mar 21
* Mississippi			
Biloxi	1715	CDT	Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft

## LANTEX 18 Exercise Handbook

DART 41424	US	1008	EDT Mar 21	2.7ft
Bermuda	Bermuda	1029	EDT Mar 21	3.8ft
Montauk	New York	1102	EDT Mar 21	6.4ft
Oregon Inlet	NC	1057	EDT Mar 21	8.7ft
Woods Hole	MA	1123	EDT Mar 21	2.2ft
Newport	Rhode Island	1110	EDT Mar 21	3.8ft
Nantucket	Massachusetts	1135	EDT Mar 21	0.7ft
DART 44401	US	1114	EDT Mar 21	0.8ft
Ocean City	Maryland	1115	EDT Mar 21	7.2ft
New London	Connecticut	1126	EDT Mar 21	1.9ft
DART 41420	US	1118	EDT Mar 21	1.9ft
Duck	North Carolina	1117	EDT Mar 21	8.5ft
DART 41421	US	1126	EDT Mar 21	1.3ft
Atlantic City	NJ	1132	EDT Mar 21	10.3ft
Sandy Hook	New Jersey	1150	EDT Mar 21	1.3ft
Lewes	Delaware	1144	EDT Mar 21	2.0ft
Quonset Point	RI	1127	EDT Mar 21	2.4ft
Beaufort	North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla	Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG	Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May	New Jersey	1153	EDT Mar 21	2.3ft
Fort Point	NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge	VA	1205	EDT Mar 21	1.2ft
Mona Island	Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez	Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda	VG	1209	EDT Mar 21	6.9ft
Christiansted	VI	1218	EDT Mar 21	4.1ft
New Haven	Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border	US	1205	EDT Mar 21	1.2ft
Vieques Is. north	PR	1229	EDT Mar 21	5.6ft
Bar Harbor	Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay	VI	1223	EDT Mar 21	2.3ft
Limetree Bay	VI	1229	EDT Mar 21	2.4ft
Fall River	MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach	NC	1231	EDT Mar 21	5.1ft
Magueyes Island	PR	1232	EDT Mar 21	2.0ft
Kiptopeke	Virginia	1219	EDT Mar 21	0.6ft
Bergen Point	New Jersey	1207	EDT Mar 21	1.2ft
Portland	Maine	1237	EDT Mar 21	0.9ft
Culebra	Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie	VI	1234	EDT Mar 21	7.0ft
Bridgeport	Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point	Virginia	1348	EDT Mar 21	0.1ft
Boston	Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal	NJ	1313	EDT Mar 21	0.3ft
Providence	Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral	Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier	SC	1314	EDT Mar 21	5.0ft
Kings Point	New York	1359	EDT Mar 21	0.6ft
Flagler Beach	Florida	1314	EDT Mar 21	7.1ft
Charleston	SC	1325	EDT Mar 21	1.1ft

PARAMETROS PRELIMINARES DEL TERREMOTO

-----

## LANTEX 18 Exercise Handbook

\* Magnitud 7.5  
\* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018  
\* Coordenadas 40.0 Norte 70.0 Oeste  
\* Profundidad 28 millas  
\* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### 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](http://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](http://tsunami.gov).

\* Este mensaje sera actualizado en 60 minutos.

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### **NTWC Spanish Message #14**

WEXX40 PAAQ 212105  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 14  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
505 PM EDT Wed Mar 21 2018

### ACTUALIZACIONES

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\* Nuevas observaciones

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

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

## LANTEX 18 Exercise Handbook

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* Florida	
Panama City	1520 CDT Mar 21
Saint Petersburg	1815 EDT Mar 21
* Texas	
Corpus Christi	1605 CDT Mar 21
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

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- \* 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft

## LANTEX 18 Exercise Handbook

Nantucket	Massachusetts	1135	EDT Mar 21	0.7ft
DART 44401	US	1114	EDT Mar 21	0.8ft
Ocean City	Maryland	1115	EDT Mar 21	7.2ft
New London	Connecticut	1126	EDT Mar 21	1.9ft
DART 41420	US	1118	EDT Mar 21	1.9ft
Duck	North Carolina	1117	EDT Mar 21	8.5ft
DART 41421	US	1126	EDT Mar 21	1.3ft
Atlantic City	NJ	1132	EDT Mar 21	10.3ft
Sandy Hook	New Jersey	1150	EDT Mar 21	1.3ft
Lewes	Delaware	1144	EDT Mar 21	2.0ft
Quonset Point	RI	1127	EDT Mar 21	2.4ft
Beaufort	North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla	Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG	Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May	New Jersey	1153	EDT Mar 21	2.3ft
Fort Point	NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge	VA	1205	EDT Mar 21	1.2ft
Mona Island	Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez	Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda	VG	1209	EDT Mar 21	6.9ft
Christiansted	VI	1218	EDT Mar 21	4.1ft
New Haven	Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border	US	1205	EDT Mar 21	1.2ft
Vieques Is. north	PR	1229	EDT Mar 21	5.6ft
Bar Harbor	Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay	VI	1223	EDT Mar 21	2.3ft
Limetree Bay	VI	1229	EDT Mar 21	2.4ft
Fall River	MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach	NC	1231	EDT Mar 21	5.1ft
Magueyes Island	PR	1232	EDT Mar 21	2.0ft
Kiptopeke	Virginia	1219	EDT Mar 21	0.6ft
Bergen Point	New Jersey	1207	EDT Mar 21	1.2ft
Portland	Maine	1237	EDT Mar 21	0.9ft
Culebra	Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie	VI	1234	EDT Mar 21	7.0ft
Bridgeport	Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point	Virginia	1348	EDT Mar 21	0.1ft
Boston	Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal	NJ	1313	EDT Mar 21	0.3ft
Providence	Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral	Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier	SC	1314	EDT Mar 21	5.0ft
Kings Point	New York	1359	EDT Mar 21	0.6ft
Flagler Beach	Florida	1314	EDT Mar 21	7.1ft
Charleston	SC	1325	EDT Mar 21	1.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

-----

* Magnitud	7.5	
* Tiempo de Origen	0900	EDT Marzo 21 2018
	0800	CDT Marzo 21 2018
	0900	AST Marzo 21 2018
	1300	UTC Marzo 21 2018
* Coordenadas	40.0	Norte 70.0 Oeste

## LANTEX 18 Exercise Handbook

- \* Profundidad 28 millas
- \* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### 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 60 minutos.

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### **NTWC Spanish Message #15**

WEXX40 PAAQ 212205  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 15  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
605 PM EDT Wed Mar 21 2018

#### ACTUALIZACIONES

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- \* Nuevas observaciones

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

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

Aviso 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



## LANTEX 18 Exercise Handbook

desde Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* Florida	
Saint Petersburg	1815 EDT Mar 21
* Texas	
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft

## LANTEX 18 Exercise Handbook

Sandy Hook New Jersey	1150	EDT Mar 21	1.3ft
Lewes Delaware	1144	EDT Mar 21	2.0ft
Quonset Point RI	1127	EDT Mar 21	2.4ft
Beaufort North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May New Jersey	1153	EDT Mar 21	2.3ft
Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point Virginia	1348	EDT Mar 21	0.1ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

* Magnitud	7.5
* Tiempo de Origen	0900 EDT Marzo 21 2018
	0800 CDT Marzo 21 2018
	0900 AST Marzo 21 2018
	1300 UTC Marzo 21 2018
* Coordenadas	40.0 Norte 70.0 Oeste
* Profundidad	28 millas
* Localizacion	90 millas S de Nantucket, Massachusetts
	170 millas SE de Boston, Massachusetts

### ACCIONES RECOMENDADAS

- 
- \* Ver mensaje numero 4 para acciones recomendadas.

## LANTEX 18 Exercise Handbook

### 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 60 minutos.

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### **NTWC Spanish Message #16**

WEXX40 PAAQ 212307

TSUSPA

### BULLETIN

Mensaje de Tsunami numero 16

NWS Centro Nacional de Alerta de Tsunami Palmer AK

707 PM EDT Wed Mar 21 2018

### ACTUALIZACIONES

-----

- \* Nuevas observaciones

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche,

## LANTEX 18 Exercise Handbook

Newfoundland hasta Cape Chidley, Labrador

### PRONOSTICOS DEL TSUNAMI

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* Florida	
Saint Petersburg	1815 EDT Mar 21
* Texas	
Galveston	1720 CDT Mar 21
* Mississippi	
Biloxi	1715 CDT Mar 21

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
-----	-----	-----
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fort Point NH	1219 EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205 EDT Mar 21	1.2ft

## LANTEX 18 Exercise Handbook

Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point Virginia	1348	EDT Mar 21	0.1ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft
Annapolis Maryland	1807	EDT Mar 21	0.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

- \* Magnitud 7.5
- \* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018
- \* Coordenadas 40.0 Norte 70.0 Oeste
- \* Profundidad 28 millas
- \* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### ACCIONES RECOMENDADAS

---

- \* Ver mensaje numero 4 para acciones recomendadas.

### IMPACTOS

---

- \* Ver mensaje numero 4 para posibles impactos.

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

## LANTEX 18 Exercise 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 60 minutos.

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### **NTWC Spanish Message #17**

WEXX40 PAAQ 220005  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 17

NWS Centro Nacional de Alerta de Tsunami Palmer AK  
805 PM EDT Wed Mar 21 2018

ACTUALIZACIONES

- 
- \* Nuevas observaciones

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

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

## LANTEX 18 Exercise Handbook

emision de este mensaje.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft
Fort Point NH	1219 EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205 EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209 EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212 EDT Mar 21	6.9ft
Virgin Gorda VG	1209 EDT Mar 21	6.9ft
Christiansted VI	1218 EDT Mar 21	4.1ft
New Haven Connecticut	1249 EDT Mar 21	0.2ft
The US/Canada Border US	1205 EDT Mar 21	1.2ft
Vieques Is. north PR	1229 EDT Mar 21	5.6ft
Bar Harbor Maine	1237 EDT Mar 21	2.0ft
Lameshur Bay VI	1223 EDT Mar 21	2.3ft
Limetree Bay VI	1229 EDT Mar 21	2.4ft
Fall River MA	1156 EDT Mar 21	1.0ft
Wrightsville Beach NC	1231 EDT Mar 21	5.1ft
Magueyes Island PR	1232 EDT Mar 21	2.0ft
Kiptopeke Virginia	1219 EDT Mar 21	0.6ft
Bergen Point New Jersey	1207 EDT Mar 21	1.2ft
Portland Maine	1237 EDT Mar 21	0.9ft
Culebra Puerto Rico	1229 EDT Mar 21	9.0ft
Charlotte Amalie VI	1234 EDT Mar 21	7.0ft
Bridgeport Connecticut	1253 EDT Mar 21	0.5ft
Windmill Point Virginia	1348 EDT Mar 21	0.1ft
Boston Massachusetts	1243 EDT Mar 21	0.6ft
Ship John Shoal NJ	1313 EDT Mar 21	0.3ft
Providence Rhode Island	1220 EDT Mar 21	0.8ft
Port Canaveral Florida	1252 EDT Mar 21	4.7ft
Springmaid Pier SC	1314 EDT Mar 21	5.0ft
Kings Point New York	1359 EDT Mar 21	0.6ft
Flagler Beach Florida	1314 EDT Mar 21	7.1ft

## LANTEX 18 Exercise Handbook

Charleston SC	1325	EDT Mar 21	1.1ft
Annapolis Maryland	1807	EDT Mar 21	0.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

-----

\* Magnitud 7.5  
\* Tiempo de Origen 0900 EDT Marzo 21 2018  
0800 CDT Marzo 21 2018  
0900 AST Marzo 21 2018  
1300 UTC Marzo 21 2018  
\* Coordenadas 40.0 Norte 70.0 Oeste  
\* Profundidad 28 millas  
\* Localizacion 90 millas S de Nantucket, Massachusetts  
170 millas SE de Boston, Massachusetts

### 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](http://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](http://tsunami.gov).
- \* Este mensaje sera actualizado en 60 minutos.

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### **NTWC Spanish Message #18**

WEXX40 PAAQ 220105  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 18  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
905 PM EDT Wed Mar 21 2018

### ACTUALIZACIONES

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\* Nuevas observaciones



## LANTEX 18 Exercise Handbook

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

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

Aviso 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 Ocean Reef, Florida hasta La Manche, Newfoundland

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida desde Brownsville, Texas hasta Ocean Reef, Florida
- \* Areas costeras de Newfoundland y Labrador desde La Manche, Newfoundland hasta Cape Chidley, Labrador

### 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft
Nantucket Massachusetts	1135 EDT Mar 21	0.7ft
DART 44401 US	1114 EDT Mar 21	0.8ft
Ocean City Maryland	1115 EDT Mar 21	7.2ft
New London Connecticut	1126 EDT Mar 21	1.9ft
DART 41420 US	1118 EDT Mar 21	1.9ft
Duck North Carolina	1117 EDT Mar 21	8.5ft
DART 41421 US	1126 EDT Mar 21	1.3ft
Atlantic City NJ	1132 EDT Mar 21	10.3ft
Sandy Hook New Jersey	1150 EDT Mar 21	1.3ft
Lewes Delaware	1144 EDT Mar 21	2.0ft
Quonset Point RI	1127 EDT Mar 21	2.4ft
Beaufort North Carolina	1201 EDT Mar 21	0.8ft
Aguadilla Puerto Rico	1202 EDT Mar 21	24.5ft
San Juan TG Puerto Rico	1209 EDT Mar 21	5.0ft
Cape May New Jersey	1153 EDT Mar 21	2.3ft

## LANTEX 18 Exercise Handbook

Fort Point NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge VA	1205	EDT Mar 21	1.2ft
Mona Island Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda VG	1209	EDT Mar 21	6.9ft
Christiansted VI	1218	EDT Mar 21	4.1ft
New Haven Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border US	1205	EDT Mar 21	1.2ft
Vieques Is. north PR	1229	EDT Mar 21	5.6ft
Bar Harbor Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay VI	1223	EDT Mar 21	2.3ft
Limetree Bay VI	1229	EDT Mar 21	2.4ft
Fall River MA	1156	EDT Mar 21	1.0ft
Wrightsville Beach NC	1231	EDT Mar 21	5.1ft
Magueyes Island PR	1232	EDT Mar 21	2.0ft
Kiptopeke Virginia	1219	EDT Mar 21	0.6ft
Bergen Point New Jersey	1207	EDT Mar 21	1.2ft
Portland Maine	1237	EDT Mar 21	0.9ft
Culebra Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie VI	1234	EDT Mar 21	7.0ft
Bridgeport Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point Virginia	1348	EDT Mar 21	0.1ft
Boston Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal NJ	1313	EDT Mar 21	0.3ft
Providence Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier SC	1314	EDT Mar 21	5.0ft
Kings Point New York	1359	EDT Mar 21	0.6ft
Flagler Beach Florida	1314	EDT Mar 21	7.1ft
Charleston SC	1325	EDT Mar 21	1.1ft
Annapolis Maryland	1807	EDT Mar 21	0.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

* Magnitud	7.5
* Tiempo de Origen	0900 EDT Marzo 21 2018
	0800 CDT Marzo 21 2018
	0900 AST Marzo 21 2018
	1300 UTC Marzo 21 2018
* Coordenadas	40.0 Norte 70.0 Oeste
* Profundidad	28 millas
* Localizacion	90 millas S de Nantucket, Massachusetts
	170 millas SE de Boston, Massachusetts

### ACCIONES RECOMENDADAS

- \* Ver mensaje numero 4 para acciones recomendadas.

### IMPACTOS

- \* Ver mensaje numero 4 para posibles impactos.

## LANTEX 18 Exercise Handbook

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

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- \* 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 60 minutos.

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### **NTWC Spanish Message #19**

WEXX40 PAAQ 220205  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 19  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
1005 PM EDT Wed Mar 21 2018

...EL AVISO Y LA ADVERTENCIA DE TSUNAMI HAN SIDO CANCELADOS...

- \* Advisory de Tsunami ha sido Cancelado para areas costeras de Texas, Louisiana, Mississippi, Alabama y Florida
- \* Warning de Tsunami ha sido Cancelado para areas costeras de Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware, New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia y Newfoundland
- \* Advisory de Tsunami ha sido Cancelado para areas costeras de Newfoundland y Labrador

### OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

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- \* 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.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
DART 44402 US	0910 EDT Mar 21	7.1ft
DART 41424 US	1008 EDT Mar 21	2.7ft
Bermuda Bermuda	1029 EDT Mar 21	3.8ft
Montauk New York	1102 EDT Mar 21	6.4ft
Oregon Inlet NC	1057 EDT Mar 21	8.7ft
Woods Hole MA	1123 EDT Mar 21	2.2ft
Newport Rhode Island	1110 EDT Mar 21	3.8ft

## LANTEX 18 Exercise Handbook

Nantucket	Massachusetts	1135	EDT Mar 21	0.7ft
DART 44401	US	1114	EDT Mar 21	0.8ft
Ocean City	Maryland	1115	EDT Mar 21	7.2ft
New London	Connecticut	1126	EDT Mar 21	1.9ft
DART 41420	US	1118	EDT Mar 21	1.9ft
Duck	North Carolina	1117	EDT Mar 21	8.5ft
DART 41421	US	1126	EDT Mar 21	1.3ft
Atlantic City	NJ	1132	EDT Mar 21	10.3ft
Sandy Hook	New Jersey	1150	EDT Mar 21	1.3ft
Lewes	Delaware	1144	EDT Mar 21	2.0ft
Quonset Point	RI	1127	EDT Mar 21	2.4ft
Beaufort	North Carolina	1201	EDT Mar 21	0.8ft
Aguadilla	Puerto Rico	1202	EDT Mar 21	24.5ft
San Juan TG	Puerto Rico	1209	EDT Mar 21	5.0ft
Cape May	New Jersey	1153	EDT Mar 21	2.3ft
Fort Point	NH	1219	EDT Mar 21	1.0ft
Chesapeake Bridge	VA	1205	EDT Mar 21	1.2ft
Mona Island	Puerto Rico	1209	EDT Mar 21	2.9ft
Mayaguez	Puerto Rico	1212	EDT Mar 21	6.9ft
Virgin Gorda	VG	1209	EDT Mar 21	6.9ft
Christiansted	VI	1218	EDT Mar 21	4.1ft
New Haven	Connecticut	1249	EDT Mar 21	0.2ft
The US/Canada Border	US	1205	EDT Mar 21	1.2ft
Vieques Is. north	PR	1229	EDT Mar 21	5.6ft
Bar Harbor	Maine	1237	EDT Mar 21	2.0ft
Lameshur Bay	VI	1223	EDT Mar 21	2.3ft
Limetree Bay	VI	1229	EDT Mar 21	2.4ft
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Wrightsville Beach	NC	1231	EDT Mar 21	5.1ft
Magueyes Island	PR	1232	EDT Mar 21	2.0ft
Kiptopeke	Virginia	1219	EDT Mar 21	0.6ft
Bergen Point	New Jersey	1207	EDT Mar 21	1.2ft
Portland	Maine	1237	EDT Mar 21	0.9ft
Culebra	Puerto Rico	1229	EDT Mar 21	9.0ft
Charlotte Amalie	VI	1234	EDT Mar 21	7.0ft
Bridgeport	Connecticut	1253	EDT Mar 21	0.5ft
Windmill Point	Virginia	1348	EDT Mar 21	0.1ft
Boston	Massachusetts	1243	EDT Mar 21	0.6ft
Ship John Shoal	NJ	1313	EDT Mar 21	0.3ft
Providence	Rhode Island	1220	EDT Mar 21	0.8ft
Port Canaveral	Florida	1252	EDT Mar 21	4.7ft
Springmaid Pier	SC	1314	EDT Mar 21	5.0ft
Kings Point	New York	1359	EDT Mar 21	0.6ft
Flagler Beach	Florida	1314	EDT Mar 21	7.1ft
Charleston	SC	1325	EDT Mar 21	1.1ft
Annapolis	Maryland	1807	EDT Mar 21	0.1ft

### ACCIONES RECOMENDADAS - ACTUALIZADAS

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

### IMPACTOS - ACTUALIZADOS

## LANTEX 18 Exercise Handbook

- 
- \* 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

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- \* Para acceder a informacion adicional consulte el sitio de internet [tsunami.gov](http://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](http://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)

### **NORTHWEST ATLANTIC TSUNAMI EXERCISE TO BE CONDUCTED March 21, 2018**

*(insert community/county/state name)* will join other localities in the northwest Atlantic as a participant in a tsunami response exercise on March 21, 2018. 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 LANTEX18, will simulate a widespread Tsunami Warning and Advisory situation along U.S. and Canadian coasts in the northwest Atlantic requiring implementation of local tsunami response plans. It is the second 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, subsea landslide, and tsunami generated 90 miles south of Nantucket, MA. and 170 miles southeast of Boston, MA at 9:00am Eastern Daylight Time *(or appropriate local time)* on March 21, 2018. Exercise participants will be provided with a handbook which describes the scenario and contains tsunami messages from the West Coast/Alaska Tsunami Warning Center (NTWC). The NTWC is responsible for providing tsunami warning messages to the Atlantic coasts of U.S. and Canada, the Gulf of Mexico coast, Puerto Rico, and the Virgin Islands.

*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](http://www.tsunami.gov). For more information on the NTHMP, see [nthmp.tsunami.gov](http://nthmp.tsunami.gov).

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On the Web:

National Tsunami Warning Center  
Pacific Tsunami Warning Center  
NOAA Tsunami Program

<http://NTWC.arh.noaa.gov>  
<http://www.prh.noaa.gov/ptwc>  
<http://www.tsunami.gov>  
<http://tsunami.noaa.gov>  
<http://nthmp.tsunami.gov>

NTHMP:

*Insert state/local emergency response URLs*