

# Exercise LANTEX22

## Participant Handbook

A U.S. and Canadian East and Gulf Coast  
Tsunami Warning Exercise  
June 1, 2022

US National Tsunami Hazard Mitigation Program



NOTE: The contents of this handbook are patterned after previous LANTEX and CARIBE WAVE Exercises (e.g., Commission Océanographique Intergouvernementale. *Exercice 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 *Exercice 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. *Exercice 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 (*Exercice 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.

## Table of Contents

1. Executive Summary.....	4
2. Exercise Concept.....	6
2.1 Purpose.....	6
2.2 Objectives.....	6
3. Background.....	6
3.1 Tsunami Warning System.....	7
3.1.1 Alert Levels.....	7
3.1.3 NTWC Event Timeline and Process.....	8
3.2 LANTEX22 Tsunami Scenario.....	11
4. Exercise Outline.....	13
4.1 General.....	13
4.2 Master Schedule (Exercise Script).....	15
4.3 Actions in Case of a Real Event.....	17
4.4 Procedure for False Alarm.....	17
4.5 Resources.....	17
4.6 Media Arrangements.....	18
5. Post-Exercise Evaluation.....	18
Appendix A: NTWC Dummy Messages.....	19
Appendix B: NTWC Exercise Messages.....	22
NTWC English Public Messages.....	22
NTWC Spanish Public Messages.....	50
Appendix C: NTWC Atlantic Forecast Locations.....	75
Appendix D: Type of Exercise.....	78
Appendix E: Example Tabletop Exercise.....	80
Appendix F: Sample Press Release for Local Media.....	82

## 1. Executive Summary

The NOAA/NWS U.S. National Tsunami Warning Center (NTWC) provides tsunami alerts for the coasts of the United States and Canada. Its annual LANTEX exercise focuses on tsunami preparedness for the East and Gulf coasts of these countries. This year, the exercise aims to be more realistic and interactive than past exercises, through a careful assessment of which information is anticipated to be available at any given time, and NTWC decision support throughout the exercise that mirrors the support provided during a real event.

The scenario for this exercise involves a M8.7 earthquake in the western Caribbean Sea occurring at 16:00 UTC/ noon EDT on June 1, 2022, which is initially assessed as M8.2. For this scenario, information will be issued to all U.S. East and Gulf Coast states and Canada, but only part of that area would be issued tsunami alerts. This is an example of a scenario that challenges NTWC automatic procedures and involves a threat of Advisory level waves to the Gulf of Mexico Coast with short lead time. Despite the exercise impacts to only part of the coastline, NTWC encourages partner interaction from all primary customers in real time for at least the initial part of the event.

### What's new?

- A source location that has not been used in a previous LANTEX exercise
- Revised workbook structure with additional helpful information
- NTWC release of multiple messages at realistic timing
- Four conference calls hosted by NTWC scientists for primary customers
- NTWC live support in Google Chat room for NOAA partners

### Exercise Timeline

The following represents a complete timeline of events for this scenario. Please use the Dissemination column to note which steps will or won't be exercised by NTWC.

Date (UTC)	Time (UTC)	Time (EDT)	Event	Msg #	Dissemination
06/01/2022	1600	1200	Exercise start/ CommsTest		Multiple means; See Table 2 p.16
06/01/2022	1607	1207	TIS- Pot. Danger	01	Email
06/01/2022	1615	1215	Notif. for Conf. Call		Email
06/01/2022	1630	1230	Advisory: Gulf of Mex.	02	Email
06/01/2022	1645	1245	Conf. Call #1		Phone
06/01/2022	1700	1300	Adv. continued	03	Email
06/01/2022	1715	1315	Notif. for Conf. Call		Email
06/01/2022	1730	1330	Adv. continued	04	Email
06/01/2022	1745	1345	Conf. Call #2		Phone
06/01/2022	1800	1400	Adv. continued	05	Email
06/01/2022	1815	1415	Notif. for Conf. Call		Email

LANTEX22 Exercise Handbook

Date (UTC)	Time (UTC)	Time (EDT)	Event	Msg #	Dissemination
06/01/2022	1830	1430	Adv. continued	06	Email
06/01/2022	1845	1445	Conf. Call #3		Phone
06/01/2022	1900	1500	Adv. area reduced	07	Email
06/01/2022	1915	1515	Notif. for Conf. Call		Email
06/01/2022	1945	1545	Conf. Call #4		Phone
06/01/2022	2000	1600	Adv. continued	08	Email
06/01/2022	2015	1615	Notif. for Conf. Call		None
06/01/2022	2045	1645	Conf. Call #5		None
06/01/2022	2100	1700	Adv. continued	09	Email
06/01/2022	2115	1715	Notif. for Conf. Call		None
06/01/2022	2145	1745	Conf. Call #6		None
06/01/2022	2200	1800	Adv. area reduced	10	Email
06/01/2022	2215	1815	Notif. for Conf. Call		None
06/01/2022	2245	1845	Conf. Call #7		None
06/01/2022	2300	1900	Adv. continued	11	Email
06/01/2022	2315	1915	Notif. for Conf. Call		None
06/01/2022	2330	1930	Cancellation	12	Email
06/01/2022	2345	1945	Conf. Call #8		None

NTWC will continue Google Chat support to NOAA/NWS partners up through the exercise cancellation bulletin.

To get in touch with NTWC or be added to the exercise email list, please see the contact list in Section 4.5 or email [ntwc@noaa.gov](mailto:ntwc@noaa.gov). A post-exercise survey will be circulated to the list in the days following the exercise. NTWC welcomes your questions and feedback, and looks forward to working with you.

## 2. Exercise Concept

### 2.1 Purpose

The purpose of the exercise is to improve Tsunami Warning System effectiveness along the U.S. and Canadian Atlantic coasts. It provides an opportunity for emergency management organizations throughout the region and other National Tsunami Warning Center (NTWC) core partners to exercise their operational lines of communications, review their tsunami response procedures, and promote tsunami preparedness. Regular exercising of response plans is critical to maintain readiness for an emergency. This is particularly true for tsunamis, which are infrequent but high impact events. Every impacted emergency management organization (EMO) is encouraged to participate. Additionally, the exercise offers an opportunity to learn about local tsunami hazard and the National Tsunami Warning Center's event timeline and process. Our goal is to increase understanding of the following during tsunami alerts: 1) messaging and communications, 2) detection, observing, and forecasting, and 3) cancellation criteria.

### 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.
- Exercise NTWC tsunami decision support and encourage partner feedback.

## 3. Background

NOAA and the U.S. National Tsunami Hazard Mitigation Program (NTHMP) are providing the framework for the LANTEX22 tsunami exercise, which is being conducted to assist tsunami preparedness efforts throughout the Atlantic region. Recent earthquakes and their associated tsunamis, such as those in Haiti-2010, Japan-2011, Chile-2015, and Tonga-2022, attest to the importance of proper planning for tsunami response. Similar recent exercises in the Pacific and Caribbean Basins have proven effective in strengthening preparedness levels of emergency management organizations.

### 3.1 Tsunami Warning System

Tsunami warning services for the continental United States and Canada are provided by the NTWC in Palmer, Alaska, while the Pacific Tsunami Warning Center (PTWC) in Pearl Harbor, Hawaii provides services for locations within the Caribbean. These Centers issue messages approximately three to seven minutes after an earthquake’s start. Domestic products include warnings, advisories, watches, and information statements.

Primary recipients of Tsunami Warning Center messages (“core partners”) include national tsunami warning focal points, Weather Forecast Offices (WFO), state/territory emergency operation centers, national Coast Guards, and military contacts. These agencies disseminate the messages to people potentially impacted by a tsunami.

#### 3.1.1 Alert Levels

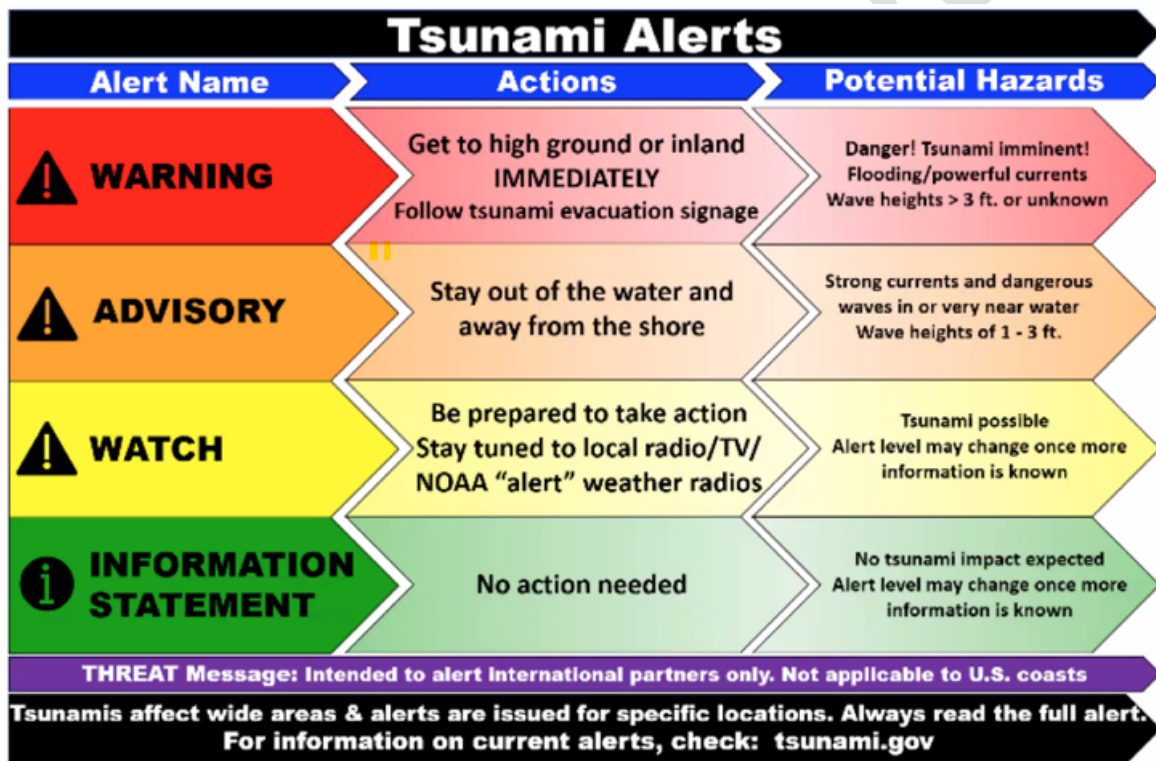


Figure 1: U.S. Tsunami Warning System alert levels.

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

**Tsunami Advisory** - A tsunami advisory is issued when a tsunami with the potential to generate strong currents or waves dangerous to those in or very near the water is imminent, expected, or occurring. The threat may continue for several hours after initial arrival, but significant inundation is not expected for areas under an advisory. Along with 1-3 foot water level fluctuations, Advisory level events come with strong tsunami currents and eddies that can greatly impact the maritime community, both through difficult navigation and through damage to docks, boats, and marinas. Additional resources on Tsunami Maritime Guidance from the NTHMP can be found at: <https://calema.maps.arcgis.com/apps/MapSeries/index.ht>. Appropriate actions to be taken by local officials during an Advisory may include closing beaches, evacuating harbors and marinas, and the repositioning of ships to deep waters when there is time to safely do so. Advisories are normally updated to continue the advisory, expand/contract affected areas, upgrade to a warning, or cancel the advisory.

### 3.1.2 NTWC Event Timeline and Process

Whether the tsunami is generated from an earthquake, landslide, volcano, or even meteotsunami, NTWC's general process and the event timeline steps remain the same: alert, detect, observe, forecast, and cancel.

#### Initial alert

Tsunami alerts are typically issued within 5 minutes following a major earthquake, and **before** a tsunami has been detected. The two Tsunami Warning Centers agree on a set of preliminary earthquake parameters based on who has warning responsibility for the area the earthquake occurred in. The initial set of earthquake information available (magnitude, location, and depth) doesn't provide a lot of relevant information about how big a tsunami might have formed. There is also potential for earthquake shaking to trigger landslides that become additional tsunami sources. Therefore, initial tsunami alerts are conservative in order to maximize warning time for the people who need it most. Alerts can also be issued upon detecting a tsunami threat from a landslide event. NTWC does not issue alerts for meteotsunamis, but upon detection works with WFOs to alert the public through Special Weather Statements.

#### Alert messaging and communications

##### *Bulletins*

Once an alert is issued, tsunami bulletins are automatically disseminated through NWS Gateway, NOAA weather radio, WEA, and the Emergency Alert Broadcast System. Messages are also posted to NTWC's Twitter and Facebook page, and all information provided on tsunami.gov. Each bulletin contains the latest information on the alert areas, earthquake parameters, estimated times of arrival (ETAs), and provides calls to action. During alerts for our coastline, tsunami bulletins are updated every 30 minutes, or as new information warrants.



### *Conference Calls*

NTWC provides routine conference calls with core partners as soon as possible during an event, generally within 1-1.5 hours after an alert is issued. Conference call notifications are sent out as an official NWS product (NOAK78) through NWS Telecommunication Gateway, as well as emailed. During conference calls the latest information on the earthquake parameters, expected tsunami impacts, arrival times, observations, and forecasting, is provided, with any upcoming modifications to the alert discussed. A chance for questions is provided at the end of the conference call.

### [Tsunami.gov](http://Tsunami.gov)

The one-stop shop for all the latest tsunami event information. All event bulletins are provided in a table on the front page, including messages from the Pacific Tsunami Warning Center. Alert areas are shown on a map, and ETAs, observations, and forecasted wave heights are posted here.

### *Chat*

NTWC utilizes Google Chat for ongoing event discussions with internal NOAA/NWS agency communication and warning points. The event collaboration room in Google Chat is useful for keeping everyone on the same page with any follow-up questions and the sharing of graphics or links. NWSChat's "tsunami" room is also monitored. If you are a NOAA/NWS partner who does not yet have access to the collaboration Chat room, please contact NTWC.

### *Phone*

If at any time a core partner needs additional information or to talk with someone on the NTWC operations floor, use the unlisted number for WFOs/Emergency Managers.

### *Social Media*

During a real tsunami event, bulletins are automatically posted to NTWC's Facebook and Twitter accounts. Occasional additional event updates are also provided.

<https://www.facebook.com/NWSNTWC>

[https://twitter.com/NWS\\_NTWC](https://twitter.com/NWS_NTWC)

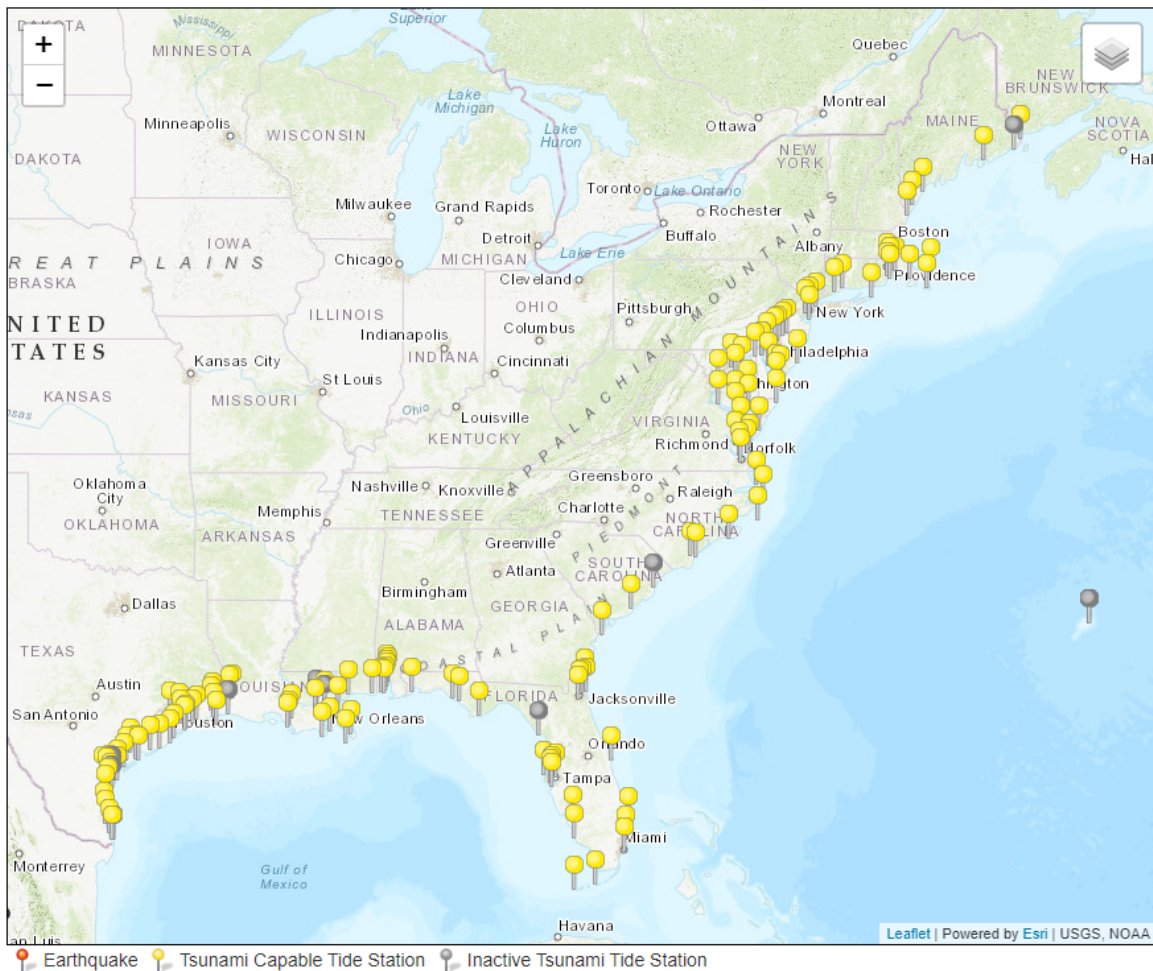
## **Tsunami Detection, Observing, and Forecasting**

### *DART Network*

Tsunami detection can occur before the wave reaches the coast through the DART (Deep Ocean Assessment and Reporting of Tsunamis) network. The DART network utilizes Bottom Pressure Recorder (BPR) instruments located on the seafloor in the deep ocean. BPRs detect changes in the pressure of the water column above as a tsunami wave propagates over the sensor, as well as often recording the pressure changes from the passage of earthquake and atmospheric waves. The [National Data Buoy Center](#) is responsible for maintaining the DART network. Due to the need to separate earthquake shaking signals from tsunami signals, DART observation interpretation is best left to tsunami experts as tsunami waves will not be displayed clearly from the NDBC DART webpage.

### Tide Gauges

Tsunamis can also be detected using coastal tide gauges. During tsunami events, tide gauges from National Ocean Service (NOS) and other groups around the world are used to monitor water levels in real time. Observed water levels at both DARTs and coastal tide gauges must have the tidal signal removed in order to accurately measure tsunami amplitudes. You can locate available U.S. tsunami-capable gauges at: <https://tidesandcurrents.noaa.gov/tsunami/>



**Figure 2. U.S. tsunami-capable tide gauges operated by the NOS Center for Operational Oceanographic Products and Services (CO-OPS).**

### Observing & Forecasting

Tsunamis are very long waves, often with periods of 15-60 minutes. When monitoring water levels NTWC must wait for the observation to reach a maximum wave height. Hence, once a tsunami has been detected, it can be another 15-30 minutes before the peak amplitude can be recorded, and even longer before the data can be incorporated into real time tsunami forecasting. When assimilating DART data into the forecast model, almost a full wave cycle of observational data is needed, which can easily take 30 minutes or more. Forecasting accuracy improves with addition of more DARTs. Therefore, the observing and forecasting process often has several iterations as more data is added to the forecast.

For initial guidance, and until tsunami observations are available, NTWC uses “best-fit” precomputed tsunami models for preliminary forecast information. Once a real-time forecast that incorporates tsunami observations has been achieved, the forecasted wave heights for coastal locations are published to [tsunami.gov](https://tsunami.gov). A short subset of the forecasted wave heights is also provided in NTWC bulletins. For the list of all forecast sites where NTWC provides ETAs and forecasted wave heights, see Appendix C, NTWC Atlantic Forecast Locations.

### *Cancellation Criteria*

After a significant tsunami has been recorded, NTWC will monitor water levels and downgrade a coastal section from a Warning to an Advisory once wave height observations have reduced to below the Warning threshold (3 ft) for at least 3 hours. NTWC will cancel the alert for a coastal section after wave height observations have remained below Advisory threshold (1 ft) for 3 hours.

## 3.2 LANTEX22 Tsunami Scenario

This exercise will provide simulated tsunami messages from the NTWC for the Gulf and eastern coasts of Canada and the United States. The alert is based on a tsunami which is generated by a magnitude 8.7 earthquake located approximately in the northwest Caribbean Sea at 19.1°N, 81.8°W and a depth of 10 km (Figure 3). This earthquake occurs off the far western end of the Oriente Fault, located on the north side of the Cayman Trough.



**Figure 3: Event location.**



## Tectonic Setting: Caribbean Sea

The Cayman Trough (or Trench) is a complex transform fault zone which contains a small spreading ridge, the Mid-Cayman Rise. It is the deepest point in the Caribbean Sea and forms part of the tectonic boundary between the North American Plate and the Caribbean Plate.

Notable historical earthquakes along the North America-Caribbean plate boundary in this region include:

- M 7.5 Guatemala earthquake (February 4, 1976)
- M 7.6 Great Swan Island, Honduras earthquake (January 10, 2018)
- M 7.7 earthquake in the Caribbean Sea to the south of Cuba and northwest of Jamaica (January 28, 2020)

These earthquakes were all strike-slip events, and none of these earthquake events produced significant tsunamis.

Faulting around the North America-Caribbean plate boundary is capable of producing large earthquake events which can generate tsunamis, as well as trigger slumping and submarine landslides. While the probability of a M8.7 earthquake from this region is highly unlikely, the purpose of this scenario is to test event response and to be prepared when the unexpected happens.

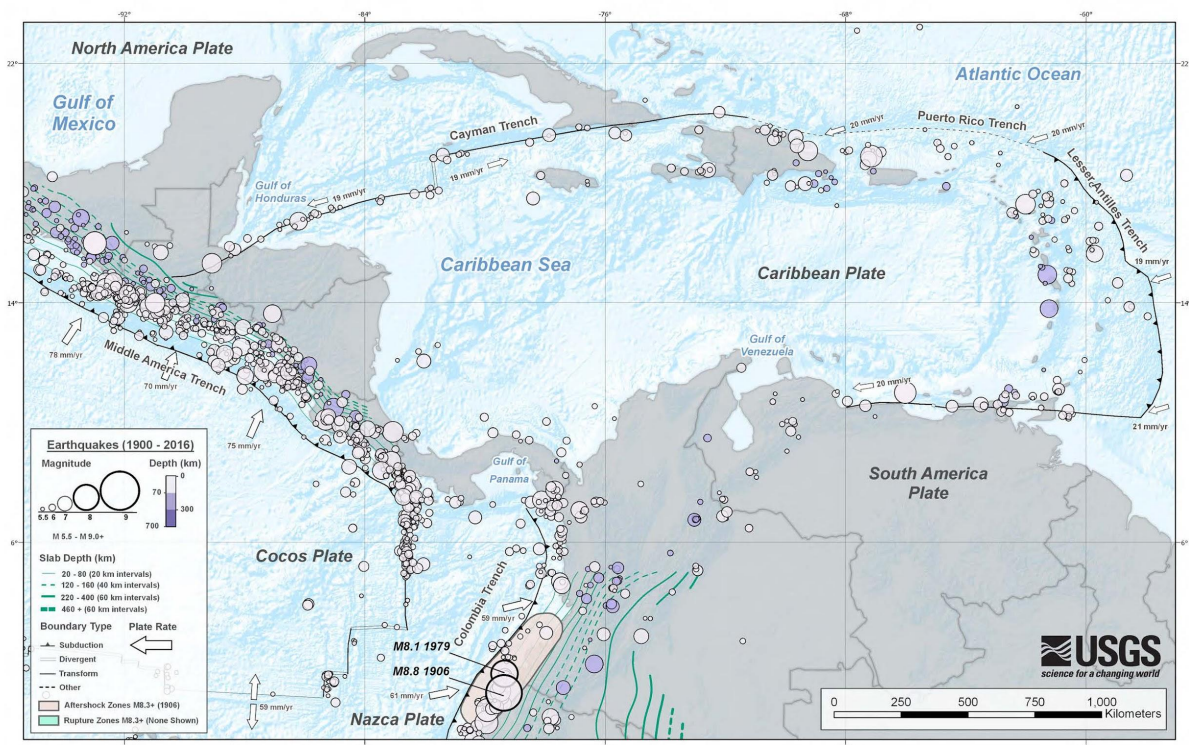


Figure 4: Caribbean tectonic setting and earthquake history, from USGS.

## Tsunami Propagation and Hazard

- The Gulf of Mexico and East Coast are protected by a wide continental shelf, with shallow water, which works to greatly reduce the severity of tsunami impacts at the shoreline.
- The bathymetry of the Gulf of Mexico is such that very little tsunami energy propagates in, or out, through the shallow and tight passageways which connect it to the Caribbean and Atlantic.
- The [United States and Territories National Tsunami Hazard Assessment Historical Record and Sources for Waves - Update](#) (2016) identifies the general tsunami hazard for the US East Coast as very low to low, and the Gulf of Mexico as very low. Underwater landslides and meteotsunamis are the most likely tsunami sources in these regions.

## Tsunami Impacts

The eventual likelihood of a Tsunami Advisory being issued for the U.S. or Canadian East Coast and/or Gulf of Mexico is quite plausible. Hence, practicing event response for a Tsunami Advisory level event is good preparation.

Earthquakes of M8.5+ in the Pacific generally produce tsunamis with basin-wide impacts. In this exercise scenario, while the wide continental shelf and lack of communication between Caribbean and Gulf of Mexico basins works to prevent the large wave-heights and coastal inundation seen during Tsunami Warnings, there is still an expectation for some tsunami impacts.

## Detection, Observation, and Forecasting Concerns

This scenario would be an unprecedented event, and our most useful forecasting tool, the DART network, would not have sensors positioned optimally for timely tsunami forecasting and alert level refinement. The tsunami arrival at the nearest location, DART 42407 in the Caribbean, occurs 1.5 hours after the earthquake origin time, comparable to the expected arrival time in Key West, Florida. As a result, in this hypothetical event, the tsunami would initially be verified and measured using international tide gauges. These observed wave heights would be very useful for guidance, but could not be easily assimilated into our real-time forecast models. Hence, the forecast models available for early alerting and decision support would be preliminary, with low confidence.

## 4. Exercise Outline

### 4.1 General

Tsunami Advisory and Information messages for this exercise are issued by the NTCW based on a hypothetical earthquake with the following hypocenter parameters which in turn generates a tsunami:

Origin Time	16:00:00 UTC June 1, 2022	
	<b>Preliminary</b>	<b>Final</b>
Latitude	19.0° N	19.1° N
Longitude	81.9° W	81.8° W
Magnitude	Mwp 8.2	Mw 8.7
Depth	18 km	10 km

Similar to a real event, the first bulletin will contain a slightly different set of earthquake parameters than the others and a lower magnitude, as the true size of an earthquake greater than magnitude 8 usually takes over 15 minutes to determine. NTWC will modify their earthquake parameters for an event once the authoritative information becomes available from the U.S. Geological Survey (USGS), usually in bulletin 2.

Expected impact for this event is guided by tsunami forecast models. The model indicated a significant tsunami along the Caribbean coasts and modest tsunami at some locations along the Gulf of Mexico, with low impact elsewhere.

Initially, NTWC issues a Tsunami Information Statement informing the public that an event has occurred which is of concern. The alert level is later raised to an Advisory for the Gulf of Mexico region, while remaining low hazard/information only elsewhere along the U.S. and Canadian east coast. Alert level definitions are provided in Section 3.1.1.

### Message Dissemination

NTWC will issue live messages over various broadcast dissemination channels. An initial communication test/dummy message will start the exercise at 1600 UTC on June 1, 2022. The content of the dummy message is given in Appendix A, and will be circulated via the transmission methods in Table 2. From then on, participants should follow the schedule in Table 1 to know when to expect new messages, which will be emailed to the exercise list from the NTWC Service Account, [ntwc@noaa.gov](mailto:ntwc@noaa.gov). To be added to the exercise email list, please email that address or the NTWC Science Officer (contact information in Section 4.5) prior to the exercise date.

Table 1 is the timeline for when messages would be issued by the NTWC if this were a real event, and can be used by EMOs to drive the exercise timing if the group is not playing along with NTWC in real time. The messages (as shown in Appendix B) cover a 7.5 hour period, though in an actual event they might continue longer. World Meteorological Organization (WMO) and Advanced Weather Interactive Processing System (AWIPS) headers used in the dummy message are listed in Table 2.

NTWC issues three official products each time a message is issued. The ones provided in Appendix B are known as the public message and do not contain codes or text intended for automated systems. English and Spanish versions of each message are provided for this exercise. The other message not shown in Appendix B is the segmented message. This message includes encoded NWS zones, Valid

Time Event Codes (VTEC), and their level of threat. The segmentation is used for automated processing systems which parse NWS products. NTWC also issues additional graphical and web-based products to its website.

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

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.

## 4.2 Master Schedule (Exercise Script)

**Table 1: Scenario Timeline**

A tsunami is triggered by a M8.7 earthquake at 19.1°N, 81.8°W occurring on June 1, 2022 at 1600 UTC. The initial test/dummy message will kick off the exercise at that time. The exercise message bulletins and notifications for conference calls will follow by email only. In the event of a National Weather Service Critical Weather Day on June 1, the dummy message will also only be disseminated by email.

NTWC will continue Google Chat support to NOAA/NWS partners up through the exercise cancellation bulletin.

The following represents a complete timeline of events for this scenario. Please use the Dissemination column to note which steps will or won't be exercised by NTWC.

Date (UTC)	Time (UTC)	Time (EDT)	Event	Msg #	Dissemination	Dummy ?
06/01/2022	1600	1200	Exercise start/ CommsTest		Multiple means; See Table 2	Yes
06/01/2022	1607	1207	TIS- Pot. Danger	01	Email	No
06/01/2022	1615	1215	Notif. for Conf. Call		Email	
06/01/2022	1630	1230	Advisory: Gulf of Mex.	02	Email	No
06/01/2022	1645	1245	Conf. Call #1		Phone	
06/01/2022	1700	1300	Adv. continued	03	Email	No
06/01/2022	1715	1315	Notif. for Conf. Call		Email	
06/01/2022	1730	1330	Adv. continued	04	Email	No
06/01/2022	1745	1345	Conf. Call #2		Phone	
06/01/2022	1800	1400	Adv. continued	05	Email	No
06/01/2022	1815	1415	Notif. for Conf. Call		Email	
06/01/2022	1830	1430	Adv. continued	06	Email	No

Date (UTC)	Time (UTC)	Time (EDT)	Event	Msg #	Dissemination	Dummy ?
06/01/2022	1845	1445	Conf. Call #3		Phone	
06/01/2022	1900	1500	Adv. area reduced	07	Email	No
06/01/2022	1915	1515	Notif. for Conf. Call		Email	
06/01/2022	1945	1545	Conf. Call #4		Phone	
06/01/2022	2000	1600	Adv. continued	08	Email	No
06/01/2022	2015	1615	Notif. for Conf. Call		None	
06/01/2022	2045	1645	Conf. Call #5		None	
06/01/2022	2100	1700	Adv. continued	09	Email	No
06/01/2022	2115	1715	Notif. for Conf. Call		None	
06/01/2022	2145	1745	Conf. Call #6		None	
06/01/2022	2200	1800	Adv. area reduced	10	Email	No
06/01/2022	2215	1815	Notif. for Conf. Call		None	
06/01/2022	2245	1845	Conf. Call #7		None	
06/01/2022	2300	1900	Adv. continued	11	Email	No
06/01/2022	2315	1915	Notif. for Conf. Call		None	
06/01/2022	2330	1930	Cancellation	12	Email	No
06/01/2022	2345	1945	Conf. Call #8		None	

**TWC Messages:**

Adv                      Tsunami Advisory  
 TIS                      Tsunami Information Statement, -Pot. Danger: with potential tsunami danger  
 Notif. for Conf. Call    Info message for partners alerting recipient to upcoming conference call

**Dummy:**

Yes      Dummy Issued, by transmission methods in Table 2  
 No      Dummy Not Issued, message will be sent by email

The initial dummy message will be disseminated over all standard TWC broadcast channels listed in Table 2. This is being issued to test communications with EMOs, and to start the exercise. If you typically receive NTWC monthly communications tests, please respond as you normally would. If you do not typically receive NTWC monthly communications tests, no action is needed from you if you receive the dummy message.

**Table 2: Product Types**

Product Types Issued for Dummy Message with Transmission Methods

Center	WMO ID	AWIPS ID	NWWS	GTS	EMWIN	AISR	Fax	Email
NTWC	WEXX20 PAAQ	TSUAT1	Yes	Yes	Yes	Yes	No	No
NTWC	WEXX30 PAAQ	TSUATE	Yes	Yes	Yes	Yes	Yes	Yes

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



### 4.3 Actions in Case of a Real Event

In the case of a real event occurring during the exercise, the NTWC will issue their normal messages for the event. Such messages will be given full priority and a decision will be made by the NTWC whether to issue the dummy message. 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 “**LANTEX22**” and “**Exercise.**” The dummy message will include the word “**Test**”. All verbal communication from NTWC will begin and end with “**This in an Exercise**”.

### 4.4 Procedure for False Alarm

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

In the event of a communication error or misinterpreted exercise message, NTWC will follow established internal procedures to mitigate public and media confusion.

Again, all verbal communications from NTWC will begin and end with “This is an Exercise”.

All NTWC messages will include TEST and/or EXERCISE in the content and headlines.

### 4.5 Resources

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

#### Questions on the exercise can be addressed to:

<u>Person</u>	<u>Telephone #</u>	<u>Email</u>
James Gridley, NTWC Director	907-745-4212	james.gridley@noaa.gov
Summer Ohlendorf, NTWC Science Officer	907-745-4212	summer.ohlendorf@noaa.gov
Dave Snider, NTWC Warning Coordinator	907-223-9988	david.snider@noaa.gov
Christa von Hillebrandt, NWS CTWP Manager	787-249-8307	christa.vonh@noaa.gov
Katie Nguyen, NWS Southern Region	682-703-3716	katie.nguyen@noaa.gov
Charles McCreery, PTWC Director	808-725-6380	charles.mccreery@noaa.gov
Chris Birchfield, NWS Eastern Region	631-244-0125	chris.birchfield@noaa.gov
Ed Fratto, NTHMP East Coast Rep.	781-224-9876	efratto@nsec.org
Paul Yang, Environment Canada	902-426-3836	paul.yang@ec.gc.ca

## 4.6 Media Arrangements

One advantage in conducting exercises is that it provides a venue to promote awareness of the exercise topic. Many residents along the Atlantic coast 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. For all levels of exercising but especially for those countries executing full-scale and functional exercises, the media can also provide support in building awareness leading up to the Exercise. The media should be provided with available informational brochures prepared by the local, regional and international agencies. Appendix F contains a sample press release which can be adapted as necessary.

## 5 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. A post-exercise survey form will be emailed to the exercise email list within a day of exercise completion, and any exercise participants who do not receive one may request the form link by emailing [ntwc@noaa.gov](mailto:ntwc@noaa.gov). Comments on the exercise, and proposed improvements to the messages may also be sent to this address. Any other items related to the tsunami warning system can be addressed to the persons listed in section 4.5.

## Appendix A. NTCW Dummy Messages

WEXX20 PAAQ 011600  
TSUAT1

TEST...Tsunami Exercise Message Number 1...TEST  
NWS National Tsunami Warning Center Palmer AK  
1200 PM EDT Wed Jun 01 2022

GMZ130-150-155-230-235-250-255-330-335-350-355-450-452-455-  
532-534-536-538-550-552-555-630>635-650-655-730-750-755-765-  
830-836-850-853-856-656-657-031-032-034-035-042>044-052>055-  
AMZ630-650-651-550-552-555-450-452-454-330-350-352-354-250-  
252-254-256-130-135-150-152-154-156-158-ANZ631>638-656-658-  
650-652-654-430-431-450>455-330-335-338-340-345-350-353-355-  
230>237-250-254-255-256-150-050>052-TXZ251-256-257-242>247-  
213-214-236>238-215-216-LAZ052>054-073-074-040-062-064-066>070-  
MSZ080>082-ALZ263>266-FLZ202-204-206-008-012-014-015-018-027-  
028-034-139-142-148-149-050-151-155-160-162-165-069-070-075-  
076>078-174-168-172-173-047-054-059-064-141-147-124-125-033-  
038-GAZ154-166-117-119-139-141-SCZ048>052-054-056-NCZ106-108-  
110-045>047-080-081-094-095-098-103-104-015>017-030>032-102-  
VAZ084-086-091-094-095-098-099-100-MDZ025-DEZ002>004-NJZ006-  
012>014-021-023>026-106-108-NYZ071>075-078>081-176>179-CTZ009>012-  
RIZ002-004>008-MAZ007-016-019>024-NHZ014-MEZ022>028-029-030-  
NBZ570-550-660-641-NSZ210-230-260-250-110-120-130-170-160-  
150-140-270-280-320-410-450-440-430-QCZ670-680-NLZ340-220-  
230-210-120-132-140-241-242-110-131-540-530-570-520-510-560-  
610-720-710-730-740-750-760-770-171734-  
/T.NEW.PAAQ.TS.W.9015.220601T1600Z-220601T1700Z/  
The U.S. east coast, Gulf of Mexico coasts, and Eastern  
Canadian coastal areas

...THIS\_MESSAGE\_IS\_FOR\_TEST\_PURPOSES\_ONLY...

... LANTEX22 TSUNAMI EXERCISE MESSAGE. THIS IS AN EXERCISE...

...MENSAJE PARA DAR COMIENZO AL EJERCICIO DE TSUNAMI LANTEX22.  
ESTO ES UN EJERCICIO...

THIS MESSAGE IS BEING USED TO START THE LANTEX22 ATLANTIC TSUNAMI  
EXERCISE. OTHER EXERCISE MESSAGES WILL BE CIRCULATED BY EMAIL.  
THE EXERCISE HANDBOOK IS AVAILABLE AT THE WEB SITE TSUNAMI.GOV.  
THE EXERCISE PURPOSE IS TO PROVIDE EMERGENCY MANAGEMENT A  
REALISTIC SCENARIO TO TEST TSUNAMI RESPONSE PLANS.

PLEASE ACKNOWLEDGE AS YOU WOULD A STANDARD COMMUNICATION TEST.

THIS IS ONLY AN EXERCISE.

...THIS IS ALSO A TEST TO DETERMINE TRANSMISSION TIMES INVOLVED IN THE  
DISSEMINATION OF TSUNAMI INFORMATION...

...ESTO ES UNA PRUEBA PARA DETERMINAR LOS TIEMPOS DE TRANSMISION  
ENVUELTOS EN LA DISEMINACION DE INFORMACION SOBRE TSUNAMIS TAMBIEN...

RESPONSES ARE REQUIRED FROM

-----  
\* All Coastal Weather Forecast Offices in the Eastern and  
Southern Regions - respond using tsunami message

## LANTEX22 Exercise Handbook

acknowledgment (TMA) procedures. Emergency alert systems and NOAA Weather Radio are NOT to be activated.

- \* State and Territorial Warning Points in ME, NH, MA, CT - RI, NY, NJ, DE, MD, PA, VA, NC, SC, GA, FL, AL - MS, LA, and TX.
- \* Joint Typhoon Warning Center in Hawaii
- \* Atlantic Storm Prediction Center NS, Government of Canada Operations Center, and Saint-Pierre et Miquelon.

### RESPONSES SHOULD INCLUDE

- 
- \* Time-of-receipt
  - \* Agency name
  - \* Email address
  - \* Phone number

Weather Service Offices should respond in accordance with local directives. All others should reply by one of the available methods below.

### SEND RESPONSE BY

- 
- \* Web - [ntwc.arh.noaa.gov/commtest/index.html](http://ntwc.arh.noaa.gov/commtest/index.html)
  - \* Email address - [ntwc@noaa.gov](mailto:ntwc@noaa.gov)
  - \* AFTN address - PAAQYQYX
  - \* AWIPS - TMA
  - \* Fax - 907-745-6071

...THIS\_MESSAGE\_IS\_FOR\_TEST\_PURPOSES\_ONLY...

...THIS IS AN EXERCISE AND TEST TO DETERMINE TRANSMISSION TIMES INVOLVED IN THE DISSEMINATION OF TSUNAMI INFORMATION...

\$\$

---

WEXX30 PAAQ 011600  
TSUATE

TEST...Public Tsunami Message Number 1...TEST  
NWS National Tsunami Warning Center Palmer AK  
1200 PM EDT Wed Jun 01 2022

..THIS\_MESSAGE\_IS\_FOR\_TEST\_PURPOSES\_ONLY...

... LANTEX22 TSUNAMI EXERCISE MESSAGE. THIS IS AN EXERCISE...

...MENSAJE PARA DAR COMIENZO AL EJERCICIO DE TSUNAMI LANTEX22.  
ESTO ES UN EJERCICIO...

THIS MESSAGE IS BEING USED TO START THE LANTEX22 ATLANTIC TSUNAMI EXERCISE. OTHER EXERCISE MESSAGES WILL BE CIRCULATED BY EMAIL. THE EXERCISE HANDBOOK IS AVAILABLE AT THE WEBSITE TSUNAMI.GOV. THE EXERCISE PURPOSE IS TO PROVIDE EMERGENCY MANAGEMENT A REALISTIC SCENARIO TO TEST TSUNAMI RESPONSE PLANS.

## LANTEX22 Exercise Handbook

ESTE MENSAJE ESTA SIENDO USADO PARA DAR COMIENZO AL EJERCICIO DE TSUNAMI LANTEX22. OTRO MENSAJES DE EJERCICIO SERA EMITIDO POR CORREO ELECTRONICO. EL MANUAL ESTA DISPONIBLE EN LA PAGINA TSUNAMI.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.

THIS IS ONLY AN EXERCISE.

..THIS IS ALSO A TEST TO DETERMINE TRANSMISSION TIMES INVOLVED IN THE DISSEMINATION OF TSUNAMI INFORMATION...

..ESTO ES UNA PRUEBA PARA DETERMINAR LOS TIEMPOS DE TRANSMISION ENVUELTOS EN LA DISEMINACION DE INFORMACION SOBRE TSUNAMIS TAMBIEN...

RESPONSES ARE REQUIRED FROM

- \* All Coastal Weather Forecast Offices in the Eastern and Southern Regions - respond using tsunami message acknowledgment (TMA) procedures. Emergency alert systems and NOAA Weather Radio are NOT to be activated.
- \* State and Territorial Warning Points in ME, NH, MA, CT - RI, NY, NJ, DE, MD, PA, VA, NC, SC, GA, FL, AL - MS, LA, and TX.
- \* Joint Typhoon Warning Center in Hawaii
- \* Atlantic Storm Prediction Center NS, Government of Canada Operations Center, and Saint-Pierre et Miquelon.

RESPONSES SHOULD INCLUDE

- \* Time-of-receipt
- \* Agency name
- \* Email address
- \* Phone number

Weather Service Offices should respond in accordance with local directives. All others should reply by one of the available methods below.

SEND RESPONSE BY

- \* Web - [ntwc.arh.noaa.gov/commtest/index.html](http://ntwc.arh.noaa.gov/commtest/index.html)
- \* Email address - [ntwc@noaa.gov](mailto:ntwc@noaa.gov)
- \* AFTN address - PAAQYQYX
- \* AWIPS - TMA
- \* Fax - 907-745-6071

\$\$

## Appendix B. NTWC Exercise Messages

The following messages, created for the LANTEX22 tsunami exercise, are representative of the official standard products issued by the NTWC during a tsunami which is generated by a magnitude 8.7 earthquake located in the NW Caribbean Sea at 19.1°N, 81.8°W. During a real event, the NTWC would also issue graphical and html-based products to the web site and via RSS.

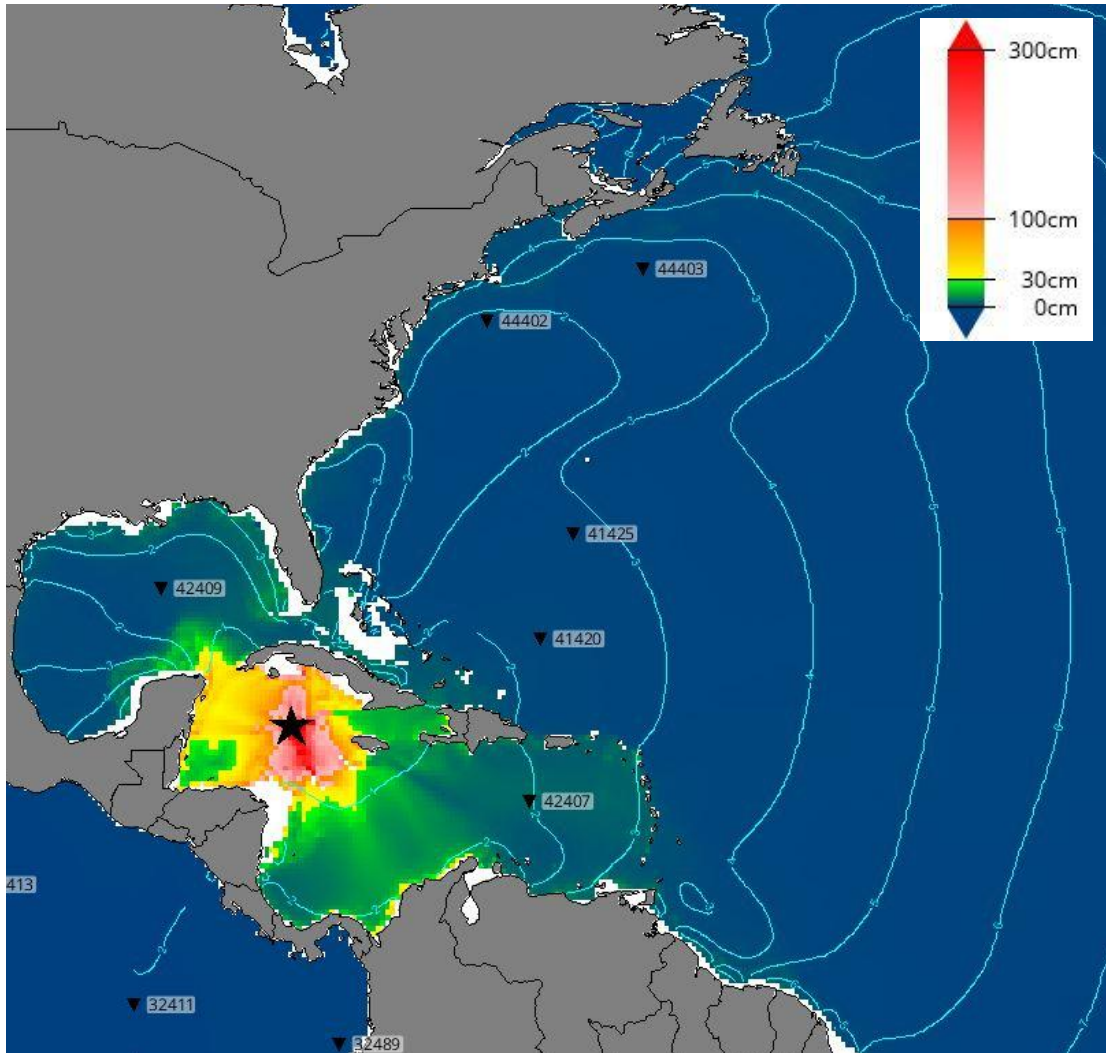


Figure B1. LANTEX22 source location (black star) in the Caribbean Sea. “Splash” color scale shows predicted tsunami wave amplitudes. Teal contours show 1 hour increments of tsunami travel time. Black inverted triangles show locations of Deep Ocean Assessment and Reporting of Tsunamis (DART) buoy systems.

**NTWC Bulletin #1**

WEXX32 PAAQ 011607  
TIBATE

Tsunami Information Statement Number 1  
NWS National Tsunami Warning Center Palmer AK  
1207 PM AST Wed Jun 01 2022

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

EVALUATION

-----

- \* Earthquakes of this size are known to generate tsunamis potentially dangerous to coasts outside the source region.
- \* The U.S. National Tsunami Warning Center is analyzing the event to determine the level of danger.
- \* More information will be issued as it becomes available.
- \* This earthquake has the potential to generate a destructive tsunami in the source region.

PRELIMINARY EARTHQUAKE PARAMETERS

-----

- \* The following parameters are based on a rapid preliminary assessment of the earthquake and changes may occur.
- \* Magnitude           8.2
- \* Origin Time        1200 EDT Jun 01 2022  
                      1200 AST Jun 01 2022  
                      1100 CDT Jun 01 2022  
                      1600 UTC Jun 01 2022
- \* Coordinates        19.0 North 81.9 West
- \* Depth              11 miles
- \* Location           in the Caribbean Sea

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).
- \* Messages will be issued hourly to keep you informed of the progress of this event.

\$\$

**NTWC Bulletin #2**

WEXX30 PAAQ 011630  
TSUATE

BULLETIN  
Public Tsunami Message Number 2  
NWS National Tsunami Warning Center Palmer AK  
1230 PM AST Wed Jun 01 2022

UPDATES

-----

- \* Revised alert areas
- \* Revised magnitude

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

Tsunami Advisory in Effect for;

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

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 - UPDATED

-----

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

- \* Magnitude 8.7
- \* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022
- \* Coordinates 19.1 North 81.8 West
- \* Depth 6 miles
- \* Location in the Caribbean Sea

FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI
----	-----
* Florida	
Key West	1340 EDT Jun 1
Panama City	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1



## LANTEX22 Exercise Handbook

### \* Texas

Corpus Christi 1510 CDT Jun 1  
Galveston 1625 CDT Jun 1

### \* Mississippi

Biloxi 1625 CDT Jun 1

### OBSERVATIONS OF TSUNAMI ACTIVITY

-----

\* No tsunami observations are available to report.

### RECOMMENDED ACTIONS - UPDATED

-----

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

If you are in a tsunami advisory area;

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

### IMPACTS

-----

Impacts will vary at different locations in the advisory areas.

If you are in a tsunami advisory area;

- \* A tsunami with strong waves and currents is possible.
- \* Waves and currents can drown or injure people who are in the water.
- \* Currents at beaches and in harbors, marinas, bays, and inlets may be especially dangerous.
- \* Some impacts may continue for many hours to days after



# Tsunami Travel Times

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

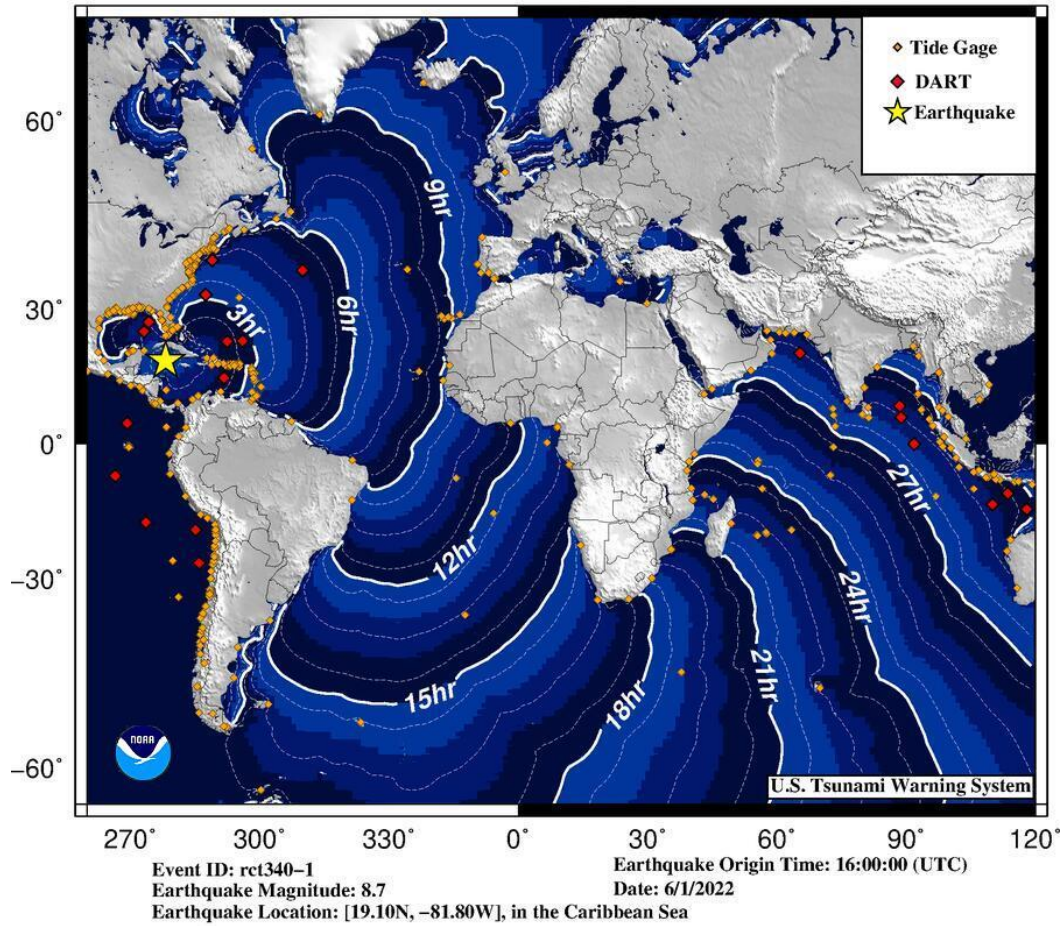


Figure B3: Travel time map issued with bulletin #2.

## NTWC Bulletin #3

WEXX30 PAAQ 011700  
 TSUATE

BULLETIN  
 Public Tsunami Message Number 3  
 NWS National Tsunami Warning Center Palmer AK  
 100 PM AST Wed Jun 01 2022

### UPDATES

- \* A tsunami has been confirmed and some impacts are expected
- \* Updated observations

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

Tsunami Advisory in Effect for;

- \* The coastal areas of Texas, Louisiana, Mississippi, Alabama

## LANTEX22 Exercise Handbook

and Florida from Brownsville, Texas to Ocean Reef, Florida

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.

### FORECASTS OF TSUNAMI ACTIVITY

---

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

SITE	FORECAST START OF TSUNAMI
* Florida	
Key West	1340 EDT Jun 1
Panama City	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1
* Texas	
Corpus Christi	1510 CDT Jun 1
Galveston	1625 CDT Jun 1
* Mississippi	
Biloxi	1625 CDT Jun 1

### OBSERVATIONS OF TSUNAMI ACTIVITY

---

\* No tsunami observations are available to report.

### PRELIMINARY EARTHQUAKE PARAMETERS

---

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

### RECOMMENDED ACTIONS

---

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

If you are in a tsunami advisory area;

\* Move out of the water, off the beach, and away from harbors, marinas, breakwaters, bays and inlets.

## LANTEX22 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 advisory areas.

If you are in a tsunami advisory area;

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

# LANTEX22 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.

\$\$

## **NTWC Bulletin #4**

WEXX30 PAAQ 011730  
TSUATE

BULLETIN  
Public Tsunami Message Number 4  
NWS National Tsunami Warning Center Palmer AK  
130 PM AST Wed Jun 01 2022

### UPDATES

- \* A tsunami has been confirmed and some impacts are expected
- \* Updated observations

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

Tsunami Advisory in Effect for;

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

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.

### FORECASTS OF TSUNAMI ACTIVITY

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

SITE	FORECAST START OF TSUNAMI
* Florida	
Key West	1340 EDT Jun 1
Panama City	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1

## LANTEX22 Exercise Handbook

\* Texas  
Corpus Christi 1510 CDT Jun 1  
Galveston 1625 CDT Jun 1

\* Mississippi  
Biloxi 1625 CDT Jun 1

### 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
Cancun Mexico	1309 EDT Jun 1	5.2ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

### RECOMMENDED ACTIONS

-----

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

If you are in a tsunami advisory area;

- \* Move out of the water, off the beach, and away from harbors, marinas, breakwaters, bays and inlets.
- \* Be alert to and follow instructions from your local emergency officials because they may have more detailed or specific information for your location.
- \* If you feel a strong earthquake or extended ground rolling take immediate protective actions such as moving inland and/or uphill preferably by foot.
- \* Boat operators,
  - \* Where time and conditions permit, move your boat out to sea to a depth of at least 180 feet.
  - \* If at sea avoid entering shallow water, harbors, marinas, bays, and inlets to avoid floating and submerged debris and strong currents.

## LANTEX22 Exercise Handbook

- \* Do not go to the shore to observe the tsunami.
- \* Do not return to the coast until local emergency officials indicate it is safe to do so.

### IMPACTS

-----

Impacts will vary at different locations in the advisory areas.

If you are in a tsunami advisory area;

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

\$\$



**NTWC Bulletin #5**

WEXX30 PAAQ 011800  
TSUATE

BULLETIN  
Public Tsunami Message Number 5  
NWS National Tsunami Warning Center Palmer AK  
200 PM AST Wed Jun 01 2022

UPDATES

-----

- \* Updated observations

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

Tsunami Advisory in Effect for;

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

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.

FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI			
----	-----			
* Florida				
Key West	1340	EDT	Jun	1
Panama City	1430	CDT	Jun	1
Saint Petersburg	1725	EDT	Jun	1
* Texas				
Corpus Christi	1510	CDT	Jun	1
Galveston	1625	CDT	Jun	1
* Mississippi				
Biloxi	1625	CDT	Jun	1

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.

## LANTEX22 Exercise Handbook

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
Cancun Mexico	1309 EDT Jun 1	5.2ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft

### PRELIMINARY EARTHQUAKE PARAMETERS

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

### 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 Bulletin #6**

WEXX30 PAAQ 011830  
TSUATE

### BULLETIN

Public Tsunami Message Number 6  
NWS National Tsunami Warning Center Palmer AK  
230 PM AST Wed Jun 01 2022

### UPDATES

- \* Updated observations
- \* Revised forecast information

## LANTEX22 Exercise Handbook

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

Tsunami Advisory in Effect for;

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

For other US and Canadian coasts in the Atlantic and Gulf of Mexico, there is no tsunami threat.

### FORECASTS OF TSUNAMI ACTIVITY

---

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

SITE	FORECAST START OF TSUNAMI
----	-----
* Florida	
Key West	1340 EDT Jun 1
Panama City	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1
* Texas	
Corpus Christi	1510 CDT Jun 1
Galveston	1625 CDT Jun 1
* Mississippi	
Biloxi	1625 CDT Jun 1

### 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
-----	-----	-----
Cancun Mexico	1309 EDT Jun 1	5.2ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403 EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402 EDT Jun 1	4.4ft

### PRELIMINARY EARTHQUAKE PARAMETERS

---

## LANTEX22 Exercise Handbook

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

### 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 Bulletin #7**

WEXX30 PAAQ 011900  
TSUATE

BULLETIN  
Public Tsunami Message Number 7  
NWS National Tsunami Warning Center Palmer AK  
300 PM AST Wed Jun 01 2022

### UPDATES

-----

- \* Updated observations
- \* Revised alert areas
- \* Revised forecast information

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

Tsunami Advisory in Effect for;

- \* The coastal areas of Louisiana, Mississippi, Alabama and Florida from Morgan City, Louisiana to Bonita Beach, Florida

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

## LANTEX22 Exercise Handbook

\* The Tsunami Advisory is canceled for the coastal areas of Florida from Bonita Beach, Florida to Ocean Reef, Florida

For other US and Canadian coasts in the Atlantic and Gulf of Mexico, there is no tsunami threat.

### FORECASTS OF TSUNAMI ACTIVITY

-----

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

SITE	FORECAST START OF TSUNAMI				
----	-----				
* Florida					
Key West	1340	EDT	Jun	1	
Panama City	1430	CDT	Jun	1	
Saint Petersburg	1725	EDT	Jun	1	
* Texas					
Corpus Christi	1510	CDT	Jun	1	
Galveston	1625	CDT	Jun	1	
* Mississippi					
Biloxi	1625	CDT	Jun	1	

### 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
-----	-----	-----
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403 EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402 EDT Jun 1	4.4ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022

# LANTEX22 Exercise Handbook

1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

## 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.

\$\$

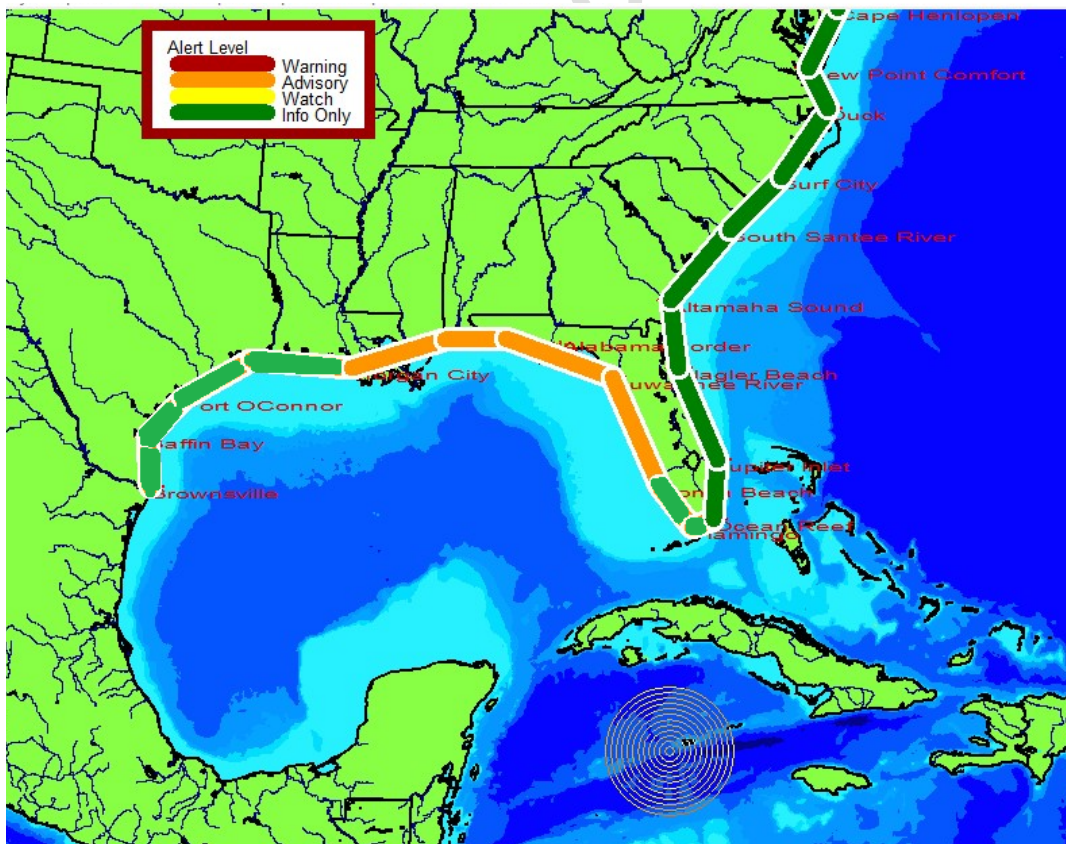


Figure B4: Alert Areas after Bulletin 7.

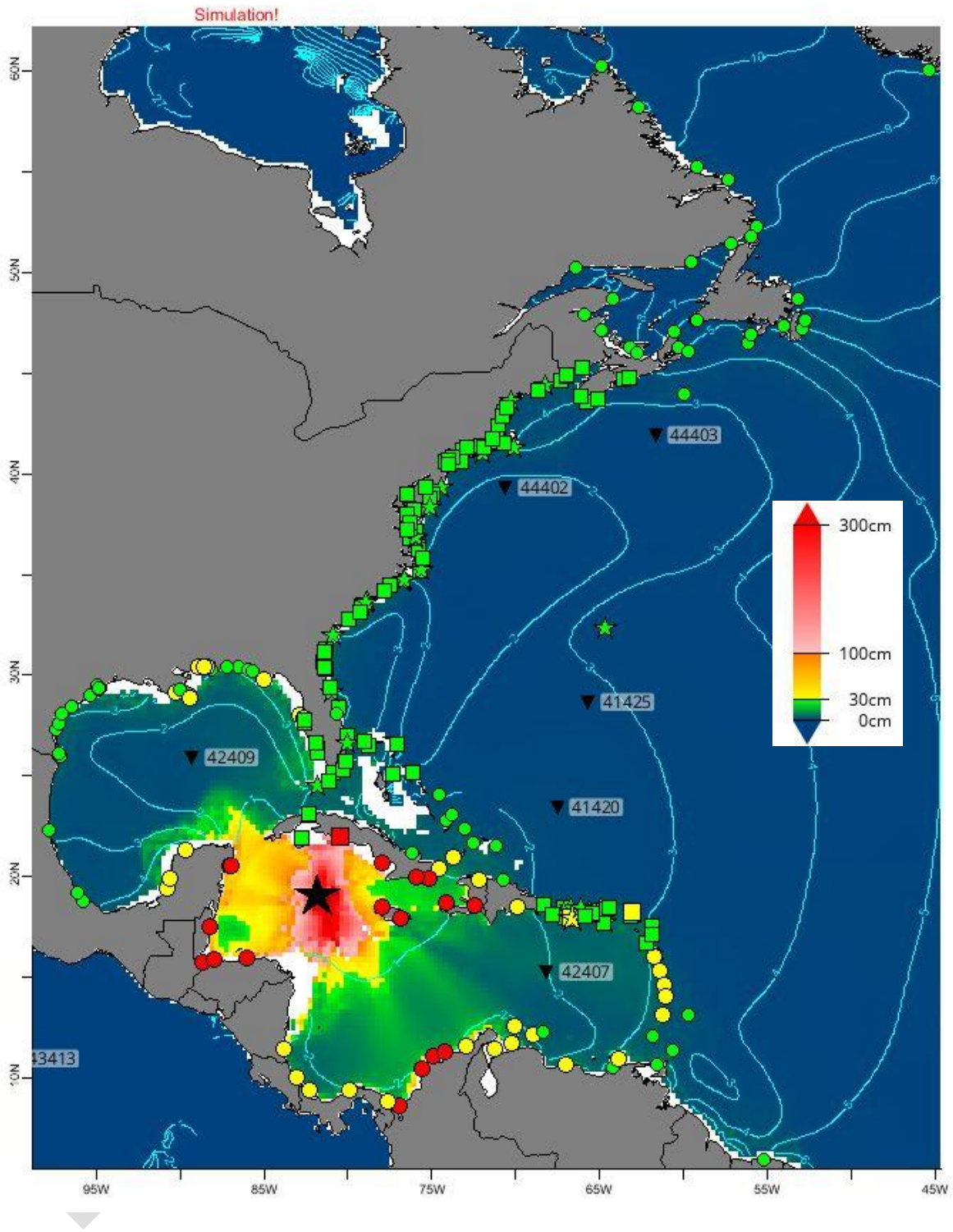


Figure B5: Event Forecast after Bulletin 7 after inverting simulated data from DARTs 42407 and 42409. Coastal forecast point symbols are colored green if the forecasted tsunami amplitude was under 30 cm, yellow if it was 30-99 cm, and red if it was 1m or greater.

**NTWC Bulletin #8**

WEXX30 PAAQ 012000  
TSUATE

BULLETIN  
Public Tsunami Message Number 8  
NWS National Tsunami Warning Center Palmer AK  
400 PM AST Wed Jun 01 2022

UPDATES

-----  
\* Updated observations

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

Tsunami Advisory in Effect for;

\* The coastal areas of Louisiana, Mississippi, Alabama and Florida from Morgan City, Louisiana to Bonita Beach, Florida

For other US and Canadian coasts in the Atlantic and Gulf of Mexico, there is no tsunami threat.

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	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1

* Mississippi	
Biloxi	1625 CDT Jun 1

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
-----	-----	-----
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft



## LANTEX22 Exercise Handbook

Vaca Key Florida	1450	EDT Jun 1	0.9ft
Pilots Station E LA	1446	EDT Jun 1	1.2ft
Grand Isle Louisiana	1530	EDT Jun 1	0.6ft
Destin Florida	1538	EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535	EDT Jun 1	1.7ft
Corpus Christi Texas	1555	EDT Jun 1	0.4ft
KINGSTON JAMAICA	1323	EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326	EDT Jun 1	2.1ft
PUERTO PLATA DO	1346	EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335	EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331	EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403	EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402	EDT Jun 1	4.4ft

### PRELIMINARY EARTHQUAKE PARAMETERS

---

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

### 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 Bulletin #9**

WEXX30 PAAQ 012100  
TSUATE

### BULLETIN

Public Tsunami Message Number 9  
NWS National Tsunami Warning Center Palmer AK  
500 PM AST Wed Jun 01 2022

# LANTEX22 Exercise Handbook

## UPDATES

-----

- \* Updated observations

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

Tsunami Advisory in Effect for;

- \* The coastal areas of Louisiana, Mississippi, Alabama and Florida from Morgan City, Louisiana to Bonita Beach, Florida

For other US and Canadian coasts in the Atlantic and Gulf of Mexico, there is no tsunami threat.

## 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	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1
* Mississippi	
Biloxi	1625 CDT Jun 1

## 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
-----	-----	-----
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
Grand Isle Louisiana	1530 EDT Jun 1	0.6ft
Destin Florida	1538 EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535 EDT Jun 1	1.7ft
Pensacola Florida	1607 EDT Jun 1	0.5ft
Dauphin Island Alabama	1630 EDT Jun 1	0.7ft
Apalachicola Florida	1633 EDT Jun 1	0.9ft
Dock E Mississippi	1635 EDT Jun 1	1.9ft
Corpus Christi Texas	1555 EDT Jun 1	0.4ft
Pascagoula Mississippi	1640 EDT Jun 1	2.0ft
Clearwater Beach FL	1658 EDT Jun 1	0.7ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft

## LANTEX22 Exercise Handbook

PUERTO PLATA DO	1346	EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335	EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331	EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403	EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402	EDT Jun 1	4.4ft

### PRELIMINARY EARTHQUAKE PARAMETERS

-----

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

### 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 Bulletin #10**

WEXX30 PAAQ 012200  
TSUATE

#### BULLETIN

Public Tsunami Message Number 10  
NWS National Tsunami Warning Center Palmer AK  
600 PM AST Wed Jun 01 2022

#### UPDATES

-----

- \* Updated observations
- \* Revised alert areas

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

Tsunami Advisory in Effect for;

## LANTEX22 Exercise Handbook

\* The coastal areas of Louisiana, Mississippi, Alabama and Florida from Morgan City, Louisiana to Destin, Florida

For other US and Canadian coasts in the Atlantic and Gulf of Mexico, there is no tsunami threat.

### 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	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1
* Mississippi	
Biloxi	1625 CDT Jun 1

### 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
-----	-----	-----
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
Grand Isle Louisiana	1530 EDT Jun 1	0.6ft
Destin Florida	1538 EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535 EDT Jun 1	1.7ft
Pensacola Florida	1607 EDT Jun 1	0.5ft
Dauphin Island Alabama	1630 EDT Jun 1	0.7ft
Apalachicola Florida	1633 EDT Jun 1	0.9ft
Dock E Mississippi	1635 EDT Jun 1	1.9ft
Corpus Christi Texas	1555 EDT Jun 1	0.4ft
Pascagoula Mississippi	1640 EDT Jun 1	2.0ft
Clearwater Beach FL	1658 EDT Jun 1	0.7ft
Freeport Texas	1715 EDT Jun 1	0.5ft
Wrightsville Beach NC	1730 EDT Jun 1	0.3ft
Port Manatee Florida	1740 EDT Jun 1	0.4ft
Port Tampa Florida	1750 EDT Jun 1	0.6ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403 EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402 EDT Jun 1	4.4ft

# LANTEX22 Exercise Handbook

## PRELIMINARY EARTHQUAKE PARAMETERS

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

## 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.

\$\$

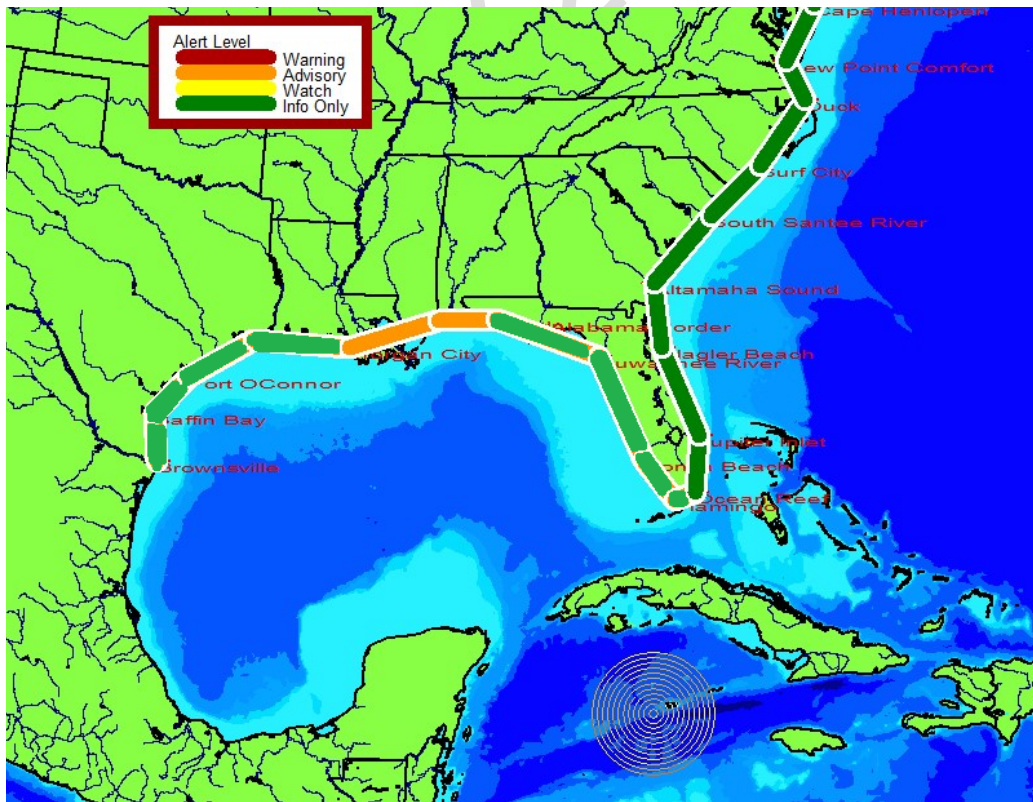


Figure B6: Alert Areas after Bulletin 10.

**NTWC Bulletin #11**

WEXX30 PAAQ 012300  
TSUATE

BULLETIN  
Public Tsunami Message Number 11  
NWS National Tsunami Warning Center Palmer AK  
700 PM AST Wed Jun 01 2022

UPDATES  
-----

\* Updated observations

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

Tsunami Advisory in Effect for;

\* The coastal areas of Louisiana, Mississippi, Alabama and Florida from Morgan City, Louisiana to Destin, Florida

For other US and Canadian coasts in the Atlantic and Gulf of Mexico, there is no tsunami threat.

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	1430	CDT	Jun	1
Saint Petersburg	1725	EDT	Jun	1
* Mississippi				
Biloxi	1625	CDT	Jun	1

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
-----	-----	-----
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft

## LANTEX22 Exercise Handbook

Pilots Station E LA	1446	EDT Jun 1	1.2ft
Grand Isle Louisiana	1530	EDT Jun 1	0.6ft
Destin Florida	1538	EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535	EDT Jun 1	1.7ft
Pensacola Florida	1607	EDT Jun 1	0.5ft
Dauphin Island Alabama	1630	EDT Jun 1	0.7ft
Apalachicola Florida	1633	EDT Jun 1	0.9ft
Dock E Mississippi	1635	EDT Jun 1	1.9ft
Corpus Christi Texas	1555	EDT Jun 1	0.4ft
Pascagoula Mississippi	1640	EDT Jun 1	2.0ft
Clearwater Beach FL	1658	EDT Jun 1	0.7ft
Freeport Texas	1715	EDT Jun 1	0.5ft
Wrightsville Beach NC	1730	EDT Jun 1	0.3ft
Port Manatee Florida	1740	EDT Jun 1	0.4ft
Port Tampa Florida	1750	EDT Jun 1	0.6ft
Lake Charles Louisiana	1840	EDT Jun 1	0.3ft
KINGSTON JAMAICA	1323	EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326	EDT Jun 1	2.1ft
PUERTO PLATA DO	1346	EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335	EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331	EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403	EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402	EDT Jun 1	4.4ft

### PRELIMINARY EARTHQUAKE PARAMETERS

---

\* Magnitude 8.7  
\* Origin Time 1200 EDT Jun 01 2022  
1200 AST Jun 01 2022  
1100 CDT Jun 01 2022  
1600 UTC Jun 01 2022  
\* Coordinates 19.1 North 81.8 West  
\* Depth 6 miles  
\* Location in the Caribbean Sea

### 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 Bulletin #12**

WEXX30 PAAQ 012330  
TSUATE

BULLETIN  
Public Tsunami Message Number 12  
NWS National Tsunami Warning Center Palmer AK  
730 PM AST Wed Jun 01 2022

...THE TSUNAMI ADVISORY IS CANCELLED...

\* The Tsunami Advisory is canceled for the coastal areas of Louisiana, Mississippi, Alabama and Florida

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
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
Grand Isle Louisiana	1530 EDT Jun 1	0.6ft
Destin Florida	1538 EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535 EDT Jun 1	1.7ft
Pensacola Florida	1607 EDT Jun 1	0.5ft
Dauphin Island Alabama	1630 EDT Jun 1	0.7ft
Apalachicola Florida	1633 EDT Jun 1	0.9ft
Dock E Mississippi	1635 EDT Jun 1	1.9ft
Corpus Christi Texas	1555 EDT Jun 1	0.4ft
Pascagoula Mississippi	1640 EDT Jun 1	2.0ft
Clearwater Beach FL	1658 EDT Jun 1	0.7ft
Freeport Texas	1715 EDT Jun 1	0.5ft
Wrightsville Beach NC	1730 EDT Jun 1	0.3ft
Port Manatee Florida	1740 EDT Jun 1	0.4ft
Port Tampa Florida	1750 EDT Jun 1	0.6ft
Lake Charles Louisiana	1840 EDT Jun 1	0.3ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403 EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402 EDT Jun 1	4.4ft



## LANTEX22 Exercise Handbook

### RECOMMENDED ACTIONS - UPDATED

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

### IMPACTS - UPDATED

---

- \* Tsunami activity has subsided along the U.S. and Canadian coasts in the Atlantic.
- \* Ongoing activity may persist in some areas causing strong currents dangerous to swimmers and boats.
- \* The determination to re-occupy hazard zones must be made by local officials.

### 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.

\$\$

**NTWC Spanish Bulletin #1**

WEXX42 PAAQ 011607  
TIBSPA

Boletin Informativo de Tsunami Numero 1  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
1207 PM AST Wed Jun 01 2022

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

EVALUACION

- \* Se conoce que terremotos de este tamaño pueden generar tsunamis potencialmente peligrosos para costas fuera del lugar de origen.
- \* El Centro Nacional de Alerta de Tsunamis esta analizando el evento para determinar el nivel de peligrosidad.
- \* Informacion adicional sera emitida cuando este disponible.
- \* Este terremoto tiene el potencial de generar un tsunami destructivo en el lugar de origen.

PARAMETROS PRELIMINARES DEL TERREMOTO

- \* LOS SIGUIENTES PARAMETROS ESTAN BASADOS EN UNA EVALUACION PRELIMINAR RAPIDA Y PUEDEN VARIAR.
- \* Magnitud 8.2
- \* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022
- \* Coordenadas 19.0 Norte 81.9 Oeste
- \* Profundidad 11 millas
- \* Localizacion en el Mar Caribe

INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

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

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**NTWC Spanish Bulletin #2**

WEXX40 PAAQ 011630  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 2  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
1230 PM AST Wed Jun 01 2022

ACTUALIZACIONES

-----

- \* Modifica las regiones bajo alerta
- \* Magnitud revisada

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

Advertencia de Tsunami en Efecto para;

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

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

PARAMETROS PRELIMINARES DEL TERREMOTO - ACTUALIZADOS

-----

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

- \* Magnitud 8.7
- \* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022
- \* Coordenadas 19.1 Norte 81.8 Oeste
- \* Profundidad 6 millas
- \* Localizacion en el Mar Caribe

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
- |                  |      |     |     |   |
|------------------|------|-----|-----|---|
| Key West         | 1340 | EDT | Jun | 1 |
| Panama City      | 1430 | CDT | Jun | 1 |
| Saint Petersburg | 1725 | EDT | Jun | 1 |

## LANTEX22 Exercise Handbook

\* Texas  
Corpus Christi 1510 CDT Jun 1  
Galveston 1625 CDT Jun 1

\* Mississippi  
Biloxi 1625 CDT Jun 1

### OBSERVACIONES DEL TSUNAMI

-----

\* No hay observaciones del tsunami disponibles para reportar.

### ACCIONES RECOMENDADAS - ACTUALIZADAS

-----

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

Si usted esta en un area de advertencia;

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

Si usted esta en un area de advertencia;

- \* Un tsunami con olas y corrientes fuertes puede ser posible.
- \* Olas y corrientes pueden ahogar o herir personas que se encuentran en el agua.

## LANTEX22 Exercise Handbook

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

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

---

- \* 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 Bulletin #3**

WEXX40 PAAQ 011700  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 3  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
100 PM AST Wed Jun 01 2022

#### ACTUALIZACIONES

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- \* Un tsunami ha sido confirmado y se esperan algunas impactos
- \* Nuevas observaciones

## LANTEX22 Exercise Handbook

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

Advertencia de Tsunami en Efecto para;

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

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

### PRONOSTICOS DEL TSUNAMI

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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					
Key West	1340	EDT	Jun	1	
Panama City	1430	CDT	Jun	1	
Saint Petersburg	1725	EDT	Jun	1	
* Texas					
Corpus Christi	1510	CDT	Jun	1	
Galveston	1625	CDT	Jun	1	
* Mississippi					
Biloxi	1625	CDT	Jun	1	

### OBSERVACIONES DEL TSUNAMI

---

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

### PARAMETROS PRELIMINARES DEL TERREMOTO

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* Magnitud	8.7				
* Tiempo de Origen	1200	EDT	Junio	01	2022
	1200	AST	Junio	01	2022
	1100	CDT	Junio	01	2022
	1600	UTC	Jun	01	2022
* Coordenadas	19.1	Norte	81.8	Oeste	
* Profundidad	6	millas			
* Localizacion	en el	Mar	Caribe		

## LANTEX22 Exercise Handbook

### ACCIONES RECOMENDADAS

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

Si usted esta en un area de advertencia;

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

### IMPACTOS

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

Si usted esta en un area de advertencia;

- \* Un tsunami con olas y corrientes fuertes puede ser posible.
- \* Olas y corrientes pueden ahogar o herir personas que se encuentran en el agua.
- \* Corrientes en playas y puertos, marinas, bahias, y ensenadas pueden ser especialmente peligrosas.
- \* Algunos impactos pueden continuar por muchas horas hasta dias luego de la llegada de la primera ola.
- \* La primera ola puede no ser la mas grande las olas posteriores si.
- \* Cada ola puede durar de 5 a 45 minutos entre su embate y retroceso.

## LANTEX22 Exercise Handbook

- \* Costas con frente en todas las direcciones pueden estar en peligro porque las olas pueden dar la vuelta a islas y entrar a bahías.
- \* Movimiento fuerte y/o prolongado del suelo indica que un terremoto ha ocurrido un tsunami puede haber sido generado y su llegada inminente.
- \* Un rápido retroceso de la línea de costa, olas y sonidos inusuales, y fuertes corrientes son señales de un tsunami.
- \* El tsunami puede aparecer como agua moviéndose rápidamente hacia mar adentro, una marea suave que se eleva rápidamente sin olas rompientes, como una serie de olas rompientes, o una pared de agua espumosa.

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

---

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

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### **NTWC Spanish Bulletin #4**

WEXX40 PAAQ 011730  
TSUSPA

BULLETIN  
Mensaje de Tsunami número 4  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
130 PM AST Wed Jun 01 2022

#### ACTUALIZACIONES

---

- \* Un tsunami ha sido confirmado y se esperan algunos impactos
- \* Nuevas observaciones

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

Advertencia de Tsunami en Efecto para;

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

Para otras costas del Pacífico de los Estados Unidos y Canadá en Norte América, el nivel de amenaza de tsunami está siendo evaluado. Se proveerá información adicional en mensajes suplementarios.



## LANTEX22 Exercise Handbook

### PRONOSTICOS DEL TSUNAMI

---

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

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI				
* Florida					
Key West	1340	EDT	Jun	1	
Panama City	1430	CDT	Jun	1	
Saint Petersburg	1725	EDT	Jun	1	
* Texas					
Corpus Christi	1510	CDT	Jun	1	
Galveston	1625	CDT	Jun	1	
* Mississippi					
Biloxi	1625	CDT	Jun	1	

### 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
Cancun Mexico	1309 EDT Jun 1	5.2ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

\* Magnitud 8.7  
\* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022  
\* Coordenadas 19.1 Norte 81.8 Oeste  
\* Profundidad 6 millas  
\* Localizacion en el Mar Caribe

### ACCIONES RECOMENDADAS

---

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

Si usted esta en un area de advertencia;

## LANTEX22 Exercise Handbook

- \* 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 advertencia.

Si usted esta en un area de advertencia;

- \* Un tsunami con olas y corrientes fuertes puede ser posible.
- \* Olas y corrientes pueden ahogar o herir personas que se encuentran en el agua.
- \* Corrientes en playas y puertos, marinas, bahias, y ensenadas pueden ser especialmente peligrosas.
- \* Algunos impactos pueden continuar por muchas horas hasta dias luego de la llegada de la primera ola.
- \* La primera ola puede no ser la mas grande las olas posteriores si.
- \* Cada ola puede durar de 5 a 45 minutos entre su embate y retroceso.
- \* Costas con frente en todas las direcciones pueden estar en peligro porque las olas pueden dar la vuelta a islas y entrar a bahias.
- \* Movimiento fuerte y/o prolongado del suelo indica que un terremoto ha ocurrido un tsunami puede haber sido generado y su llegada inminente.

## LANTEX22 Exercise Handbook

- \* 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 Bulletin #5**

WEXX40 PAAQ 011800  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 5  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
200 PM AST Wed Jun 01 2022

#### ACTUALIZACIONES

---

- \* Nuevas observaciones

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

Advertencia de Tsunami en Efecto para;

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

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

#### PRONOSTICOS DEL TSUNAMI

---

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

## LANTEX22 Exercise Handbook

LUGAR -----	LLEGADA PRONOSTICADA DEL TSUNAMI -----
* Florida	
Key West	1340 EDT Jun 1
Panama City	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1

* Texas	
Corpus Christi	1510 CDT Jun 1
Galveston	1625 CDT Jun 1

* Mississippi	
Biloxi	1625 CDT Jun 1

### 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 -----
Cancun Mexico	1309 EDT Jun 1	5.2ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

-----

* Magnitud	8.7
* Tiempo de Origen	1200 EDT Junio 01 2022
	1200 AST Junio 01 2022
	1100 CDT Junio 01 2022
	1600 UTC Jun 01 2022
* Coordenadas	19.1 Norte 81.8 Oeste
* Profundidad	6 millas
* Localizacion	en el Mar Caribe

### ACCIONES RECOMENDADAS

-----

\* Ver mensaje numero 4 para acciones recomendadas.

### IMPACTOS

-----

\* Ver mensaje numero 4 para posibles impactos.

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

-----

## LANTEX22 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 Bulletin #6

WEXX40 PAAQ 011830  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 6  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
230 PM AST Wed Jun 01 2022

#### ACTUALIZACIONES

- \* Nuevas observaciones
- \* Informacion de pronostico revisada

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

Advertencia de Tsunami en Efecto para;

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

Para otras costas de Estados Unidos y Canada en el Atlantico y Golfo de Mexico, no existe amenaza de tsunami.

#### 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				
Key West	1340	EDT	Jun	1
Panama City	1430	CDT	Jun	1
Saint Petersburg	1725	EDT	Jun	1
* Texas				
Corpus Christi	1510	CDT	Jun	1
Galveston	1625	CDT	Jun	1

## LANTEX22 Exercise Handbook

\* Mississippi  
Biloxi 1625 CDT Jun 1

### 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
Cancun Mexico	1309 EDT Jun 1	5.2ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403 EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402 EDT Jun 1	4.4ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

\* Magnitud 8.7  
\* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022  
\* Coordenadas 19.1 Norte 81.8 Oeste  
\* Profundidad 6 millas  
\* Localizacion en el Mar Caribe

### ACCIONES RECOMENDADAS

---

\* Ver mensaje numero 4 para acciones recomendadas.

### IMPACTOS

---

\* Ver mensaje numero 4 para posibles impactos.

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

---

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

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

\* Este mensaje sera actualizado en 30 minutos.

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**NTWC Spanish Bulletin #7**

WEXX40 PAAQ 011900  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 7  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
300 PM AST Wed Jun 01 2022

ACTUALIZACIONES

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- \* Nuevas observaciones
- \* Modifica las regiones bajo alerta
- \* Informacion de pronostico revisada

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

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Louisiana, Mississippi, Alabama y Florida desde Morgan City, Louisiana hasta Bonita Beach, Florida

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

- \* Advisory de Tsunami ha sido Cancelado para areas costeras de Florida desde Bonita Beach, Florida hasta Ocean Reef, Florida

Para otras costas de Estados Unidos y Canada en el Atlantico y Golfo de Mexico, no existe amenaza de tsunami.

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	
Key West	1340 EDT Jun 1
Panama City	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1
* Texas	
Corpus Christi	1510 CDT Jun 1
Galveston	1625 CDT Jun 1
* Mississippi	
Biloxi	1625 CDT Jun 1

## LANTEX22 Exercise Handbook

### 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
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403 EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402 EDT Jun 1	4.4ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

- \* Magnitud 8.7
- \* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022
- \* Coordenadas 19.1 Norte 81.8 Oeste
- \* Profundidad 6 millas
- \* Localizacion en el Mar Caribe

### 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 Bulletin #8**

WEXX40 PAAQ 012000  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 8  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
400 PM AST Wed Jun 01 2022

ACTUALIZACIONES

\* Nuevas observaciones

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

Advertencia de Tsunami en Efecto para;

\* Areas costeras de Louisiana, Mississippi, Alabama y Florida desde Morgan City, Louisiana hasta Bonita Beach, Florida

Para otras costas de Estados Unidos y Canada en el Atlantico y Golfo de Mexico, no existe amenaza de tsunami.

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	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1
* Mississippi	
Biloxi	1625 CDT Jun 1

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
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
Grand Isle Louisiana	1530 EDT Jun 1	0.6ft

## LANTEX22 Exercise Handbook

Destin Florida	1538	EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535	EDT Jun 1	1.7ft
Corpus Christi Texas	1555	EDT Jun 1	0.4ft
KINGSTON JAMAICA	1323	EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326	EDT Jun 1	2.1ft
PUERTO PLATA DO	1346	EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335	EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331	EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403	EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402	EDT Jun 1	4.4ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

\* Magnitud 8.7  
\* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022  
\* Coordenadas 19.1 Norte 81.8 Oeste  
\* Profundidad 6 millas  
\* Localizacion en el Mar Caribe

### 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 Bulletin #9**

WEXX40 PAAQ 012100  
TSUSPA

#### BULLETIN

Mensaje de Tsunami numero 9  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
500 PM AST Wed Jun 01 2022

## LANTEX22 Exercise Handbook

### ACTUALIZACIONES

\* Nuevas observaciones

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

Advertencia de Tsunami en Efecto para;

\* Areas costeras de Louisiana, Mississippi, Alabama y Florida desde Morgan City, Louisiana hasta Bonita Beach, Florida

Para otras costas de Estados Unidos y Canada en el Atlantico y Golfo de Mexico, no existe amenaza de tsunami.

### 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	
Panama City	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1

* Mississippi	
Biloxi	1625 CDT Jun 1

### 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
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
Grand Isle Louisiana	1530 EDT Jun 1	0.6ft
Destin Florida	1538 EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535 EDT Jun 1	1.7ft
Pensacola Florida	1607 EDT Jun 1	0.5ft
Dauphin Island Alabama	1630 EDT Jun 1	0.7ft
Apalachicola Florida	1633 EDT Jun 1	0.9ft
Dock E Mississippi	1635 EDT Jun 1	1.9ft
Corpus Christi Texas	1555 EDT Jun 1	0.4ft
Pascagoula Mississippi	1640 EDT Jun 1	2.0ft

## LANTEX22 Exercise Handbook

Clearwater Beach FL	1658	EDT Jun 1	0.7ft
KINGSTON JAMAICA	1323	EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326	EDT Jun 1	2.1ft
PUERTO PLATA DO	1346	EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335	EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331	EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403	EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402	EDT Jun 1	4.4ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

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\* Magnitud 8.7  
\* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022  
\* Coordenadas 19.1 Norte 81.8 Oeste  
\* Profundidad 6 millas  
\* Localizacion en el Mar Caribe

### 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 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 Bulletin #10**

WEXX40 PAAQ 012200  
TSUSPA

### BULLETIN

Mensaje de Tsunami numero 10  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
600 PM AST Wed Jun 01 2022

## LANTEX22 Exercise Handbook

### ACTUALIZACIONES

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

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

Advertencia de Tsunami en Efecto para;

- \* Areas costeras de Louisiana, Mississippi, Alabama y Florida desde Morgan City, Louisiana hasta Destin, Florida

Para otras costas de Estados Unidos y Canada en el Atlantico y Golfo de Mexico, no existe amenaza de tsunami.

### 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	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1

- \* Mississippi

Biloxi	1625 CDT Jun 1
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### 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
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
Grand Isle Louisiana	1530 EDT Jun 1	0.6ft
Destin Florida	1538 EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535 EDT Jun 1	1.7ft
Pensacola Florida	1607 EDT Jun 1	0.5ft
Dauphin Island Alabama	1630 EDT Jun 1	0.7ft
Apalachicola Florida	1633 EDT Jun 1	0.9ft
Dock E Mississippi	1635 EDT Jun 1	1.9ft
Corpus Christi Texas	1555 EDT Jun 1	0.4ft

## LANTEX22 Exercise Handbook

Pascagoula Mississippi	1640	EDT Jun 1	2.0ft
Clearwater Beach FL	1658	EDT Jun 1	0.7ft
Freeport Texas	1715	EDT Jun 1	0.5ft
Wrightsville Beach NC	1730	EDT Jun 1	0.3ft
Port Manatee Florida	1740	EDT Jun 1	0.4ft
Port Tampa Florida	1750	EDT Jun 1	0.6ft
KINGSTON JAMAICA	1323	EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326	EDT Jun 1	2.1ft
PUERTO PLATA DO	1346	EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335	EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331	EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403	EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402	EDT Jun 1	4.4ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

\* Magnitud 8.7  
\* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022  
\* Coordenadas 19.1 Norte 81.8 Oeste  
\* Profundidad 6 millas  
\* Localizacion en el Mar Caribe

### 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 Bulletin #11**

WEXX40 PAAQ 012300  
TSUSPA

BULLETIN

Mensaje de Tsunami numero 11  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
700 PM AST Wed Jun 01 2022

ACTUALIZACIONES

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\* Nuevas observaciones

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

Advertencia de Tsunami en Efecto para;

\* Areas costeras de Louisiana, Mississippi, Alabama y Florida  
desde Morgan City, Louisiana hasta Destin, Florida

Para otras costas de Estados Unidos y Canada en el Atlantico  
y Golfo de Mexico, no existe amenaza de tsunami.

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	
Panama City	1430 CDT Jun 1
Saint Petersburg	1725 EDT Jun 1
* Mississippi	
Biloxi	1625 CDT Jun 1

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
-----	-----	-----
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft

## LANTEX22 Exercise Handbook

Pilots Station E LA	1446	EDT Jun 1	1.2ft
Grand Isle Louisiana	1530	EDT Jun 1	0.6ft
Destin Florida	1538	EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535	EDT Jun 1	1.7ft
Pensacola Florida	1607	EDT Jun 1	0.5ft
Dauphin Island Alabama	1630	EDT Jun 1	0.7ft
Apalachicola Florida	1633	EDT Jun 1	0.9ft
Dock E Mississippi	1635	EDT Jun 1	1.9ft
Corpus Christi Texas	1555	EDT Jun 1	0.4ft
Pascagoula Mississippi	1640	EDT Jun 1	2.0ft
Clearwater Beach FL	1658	EDT Jun 1	0.7ft
Freeport Texas	1715	EDT Jun 1	0.5ft
Wrightsville Beach NC	1730	EDT Jun 1	0.3ft
Port Manatee Florida	1740	EDT Jun 1	0.4ft
Port Tampa Florida	1750	EDT Jun 1	0.6ft
Lake Charles Louisiana	1840	EDT Jun 1	0.3ft
KINGSTON JAMAICA	1323	EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326	EDT Jun 1	2.1ft
PUERTO PLATA DO	1346	EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335	EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331	EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403	EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402	EDT Jun 1	4.4ft

### PARAMETROS PRELIMINARES DEL TERREMOTO

---

\* Magnitud 8.7  
\* Tiempo de Origen 1200 EDT Junio 01 2022  
1200 AST Junio 01 2022  
1100 CDT Junio 01 2022  
1600 UTC Jun 01 2022  
\* Coordenadas 19.1 Norte 81.8 Oeste  
\* Profundidad 6 millas  
\* Localizacion en el Mar Caribe

### 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 Bulletin #12**

WEXX40 PAAQ 012330  
TSUSPA

## BULLETIN

Mensaje de Tsunami numero 12  
NWS Centro Nacional de Alerta de Tsunami Palmer AK  
730 PM AST Wed Jun 01 2022

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

- \* Advisory de Tsunami ha sido Cancelado para areas costeras de Louisiana, Mississippi, Alabama y Florida

## 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
Cancun Mexico	1309 EDT Jun 1	5.2ft
Key West Florida	1433 EDT Jun 1	0.8ft
Arecibo Puerto Rico	1428 EDT Jun 1	0.7ft
Mona Island Puerto Rico	1419 EDT Jun 1	1.3ft
Vaca Key Florida	1450 EDT Jun 1	0.9ft
Pilots Station E LA	1446 EDT Jun 1	1.2ft
Grand Isle Louisiana	1530 EDT Jun 1	0.6ft
Destin Florida	1538 EDT Jun 1	0.7ft
Port Fourchon Louisiana	1535 EDT Jun 1	1.7ft
Pensacola Florida	1607 EDT Jun 1	0.5ft
Dauphin Island Alabama	1630 EDT Jun 1	0.7ft
Apalachicola Florida	1633 EDT Jun 1	0.9ft
Dock E Mississippi	1635 EDT Jun 1	1.9ft
Corpus Christi Texas	1555 EDT Jun 1	0.4ft
Pascagoula Mississippi	1640 EDT Jun 1	2.0ft
Clearwater Beach FL	1658 EDT Jun 1	0.7ft
Freeport Texas	1715 EDT Jun 1	0.5ft
Wrightsville Beach NC	1730 EDT Jun 1	0.3ft
Port Manatee Florida	1740 EDT Jun 1	0.4ft
Port Tampa Florida	1750 EDT Jun 1	0.6ft
Lake Charles Louisiana	1840 EDT Jun 1	0.3ft
KINGSTON JAMAICA	1323 EDT Jun 1	4.3ft
CAP-HAITEN HAITI	1326 EDT Jun 1	2.1ft
PUERTO PLATA DO	1346 EDT Jun 1	1.5ft
PORT-AU-PRINCE HAITI	1335 EDT Jun 1	3.8ft
PUERTO BARRIOS GT	1331 EDT Jun 1	4.1ft
SANTO DOMINGO DO	1403 EDT Jun 1	2.0ft
SANTA MARTA COLOMBIA	1402 EDT Jun 1	4.4ft

## LANTEX22 Exercise Handbook

### 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

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- \* La actividad de tsunami ha disminuido a lo largo de las costas de las costas del Atlantico de Estados Unidos y Canada.
- \* Actividad en curso puede seguir en algunas areas causando fuertes corrientes peligrosos para nadadores y embarcaciones.
- \* La determinacion para volver a ocupar zonas de peligro debe ser hecha por autoridades locales.

### INFORMACION ADICIONAL Y PROXIMA ACTUALIZACION

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

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## Appendix C. NTC Atlantic Forecast Locations

NTWC East Coast and Gulf Forecast Locations (ETAs & Maximum wave height)					
Location Name	State	Country	Tide Gauge	Breakpoint?	Forecast Dissemination
Brownsville	Texas	United States	-	Breakpoints	tsunami.gov
Baffin Bay	Texas	United States	-	Breakpoints	tsunami.gov
Port OConnor	Texas	United States	-	Breakpoints	tsunami.gov
High Island	Texas	United States	-	Breakpoints	tsunami.gov
Morgan City	Louisiana	United States	-	Breakpoints	tsunami.gov
The Miss./Alabama Border		United States	-	Breakpoints	tsunami.gov
Destin	Florida	United States	-	Breakpoints	tsunami.gov
Suwannee River	Florida	United States	-	Breakpoints	tsunami.gov
Bonita Beach	Florida	United States	-	Breakpoints	tsunami.gov
Flamingo	Florida	United States	-	Breakpoints	tsunami.gov
Ocean Reef	Florida	United States	-	Breakpoints	tsunami.gov
Jupiter Inlet	Florida	United States	-	Breakpoints	tsunami.gov
Flagler Beach	Florida	United States	-	Breakpoints	tsunami.gov
Altamaha Sound	Georgia	United States	-	Breakpoints	tsunami.gov
South Santee River	South Carolina	United States	-	Breakpoints	tsunami.gov
Surf City	North Carolina	United States	-	Breakpoints	tsunami.gov
Duck	North Carolina	United States	dpnc	Breakpoints	tsunami.gov
New Point Comfort	Virginia	United States	-	Breakpoints	tsunami.gov
Cape Henlopen	Delaware	United States	-	Breakpoints	tsunami.gov
Sandy Hook	New Jersey	United States	shnj	Breakpoints	tsunami.gov
Watch Hill	Rhode Island	United States	-	Breakpoints	tsunami.gov
Merrimack River	Massachusetts	United States	-	Breakpoints	tsunami.gov
Stonington	Maine	United States	-	Breakpoints	tsunami.gov
The US/Canada Border		United States	epme	Breakpoints	tsunami.gov
Charlottesville	Nova Scotia	Canada	-	Breakpoints	tsunami.gov
Chezzetcook Inlet	Nova Scotia	Canada	-	Breakpoints	tsunami.gov
Meat Cove	Nova Scotia	Canada	-	Breakpoints	tsunami.gov
Cape Ray	Newfoundland	Canada	-	Breakpoints	tsunami.gov
La Manche	Newfoundland	Canada	-	Breakpoints	tsunami.gov
Strait of Belle Isle	Newfoundland	Canada	-	Breakpoints	tsunami.gov
Cape Chidley	Labrador	Canada	-	Breakpoints	tsunami.gov
Corpus Christi	Texas	United States	cctx	No	messages & tsunami.gov
Galveston	Texas	United States	gptx	No	messages & tsunami.gov
Biloxi	Mississippi	United States	bxms	No	messages & tsunami.gov
Panama City	Florida	United States	pcfl	No	messages & tsunami.gov
Saint Petersburg	Florida	United States	spfl	No	messages & tsunami.gov
Key West	Florida	United States	kwfl	No	messages & tsunami.gov
Miami	Florida	United States	-	No	messages & tsunami.gov
Melbourne Beach	Florida	United States	-	No	messages & tsunami.gov
Jacksonville Beach	Florida	United States	-	No	messages & tsunami.gov
Savannah	Georgia	United States	fpga	No	messages & tsunami.gov
Charleston	South Carolina	United States	chsc	No	messages & tsunami.gov
Myrtle Beach	South Carolina	United States	-	No	messages & tsunami.gov
Cape Hatteras	North Carolina	United States	-	No	messages & tsunami.gov
Virginia Beach	Virginia	United States	-	No	messages & tsunami.gov
Atlantic City	New Jersey	United States	acnj	No	messages & tsunami.gov
Manhattan	New York	United States	btny	No	messages & tsunami.gov
Montauk	New York	United States	mony	No	messages & tsunami.gov
Nantucket	Massachusetts	United States	tuma	No	messages & tsunami.gov
Boston	Massachusetts	United States	boma	No	messages & tsunami.gov
Portland	Maine	United States	ptme	No	messages & tsunami.gov

LANTEX22 Exercise Handbook

Grand Manan Island	New Brunswick	Canada	-	No	messages & tsunami.gov
Lockeport	Nova Scotia	Canada	-	No	messages & tsunami.gov
Scatarie Island	Nova Scotia	Canada	-	No	messages & tsunami.gov
Saint Lawrence	Newfoundland	Canada	-	No	messages & tsunami.gov
Bonavista	Newfoundland	Canada	-	No	messages & tsunami.gov
Battle Harbour	Labrador	Canada	-	No	messages & tsunami.gov
Roadtown	British Virgin Is.	British Virgin	-	No	messages & tsunami.gov
Cape Makkovik	Labrador	Canada	-	No	messages & tsunami.gov
Daytona	Florida	United States	-	No	messages & tsunami.gov
Port Isabel	Texas	United States	pitx	No	tsunami.gov
Rock Port	Texas	United States	rptx	No	tsunami.gov
Freeport	Texas	United States	fptx	No	tsunami.gov
Sabine Pass	Texas	United States	sptx	No	tsunami.gov
Eugene Island	Louisiana	United States	eila	No	tsunami.gov
Port Fourchon	Louisiana	United States	pfla	No	tsunami.gov
Pilots Station E	Louisiana	United States	psla	No	tsunami.gov
Grand Isle	Louisiana	United States	gila	No	tsunami.gov
Waveland	Mississippi	United States	wlms	No	tsunami.gov
Apalachicola	Florida	United States	apfl	No	tsunami.gov
Cedar Key	Florida	United States	ckfl	No	tsunami.gov
Clearwater Beach	Florida	United States	cwfl	No	tsunami.gov
Port Manatee	Florida	United States	pmfl	No	tsunami.gov
Fort Myers	Florida	United States	fmfl	No	tsunami.gov
Naples	Florida	United States	nafl	No	tsunami.gov
Vaca Key	Florida	United States	akfl	No	tsunami.gov
Virginia Key	Florida	United States	vkfl	No	tsunami.gov
Port Canaveral	Florida	United States	tpfl	No	tsunami.gov
Fernandina Beach	Florida	United States	fbfl	No	tsunami.gov
Saint Simons Island	Georgia	United States	-	No	tsunami.gov
Springmaid Pier	South Carolina	United States	spsc	No	tsunami.gov
Wrightsville Beach	North Carolina	United States	wbnc	No	tsunami.gov
Beaufort	North Carolina	United States	bunc	No	tsunami.gov
Oregon Inlet	North Carolina	United States	oinc	No	tsunami.gov
Currituck	North Carolina	United States	-	No	tsunami.gov
Chesapeake Bridge	Virginia	United States	cbva	No	tsunami.gov
Money Point	Virginia	United States	mpva	No	tsunami.gov
Yorktown	Virginia	United States	ytva	No	tsunami.gov
Windmill Point	Virginia	United States	wpva	No	tsunami.gov
Lewisetta	Virginia	United States	leva	No	tsunami.gov
Kiptopeke	Virginia	United States	kpva	No	tsunami.gov
Ocean City	Maryland	United States	ocmd	No	tsunami.gov
Lewes	Delaware	United States	lede	No	tsunami.gov
Ship John Shoal	New Jersey	United States	jsnj	No	tsunami.gov
Cape May	New Jersey	United States	cmnj	No	tsunami.gov
Bergen Point	New Jersey	United States	bpny	No	tsunami.gov
Fire Island Light	New York	United States	-	No	tsunami.gov
Kings Point	New York	United States	kgny	No	tsunami.gov
Bridgeport	Connecticut	United States	bgct	No	tsunami.gov
New Haven	Connecticut	United States	nhct	No	tsunami.gov
New London	Connecticut	United States	nlct	No	tsunami.gov
Quonset Point	Rhode Island	United States	quri	No	tsunami.gov
Providence	Rhode Island	United States	prri	No	tsunami.gov
Newport	Rhode Island	United States	neri	No	tsunami.gov

LANTEX22 Exercise Handbook

Woods Hole	Massachusetts	United States	woma	No	tsunami.gov
Fort Point	New Hampshire	United States	frnh	No	tsunami.gov
Bar Harbor	Maine	United States	bame	No	tsunami.gov
Cutler NAS	Maine	United States	cnme	No	tsunami.gov
Saint John	New Brunswick	Canada	-	No	tsunami.gov
Yarmouth	Nova Scotia	Canada	-	No	tsunami.gov
Halifax	Nova Scotia	Canada	hali	No	tsunami.gov
North Sydney	Nova Scotia	Canada	-	No	tsunami.gov
Wood Islands	Prince Edward Is.	Canada	-	No	tsunami.gov
Charlottetown	Prince Edward Is.	Canada	-	No	tsunami.gov
Shediac	New Brunswick	Canada	-	No	tsunami.gov
Escuminac	New Brunswick	Canada	-	No	tsunami.gov
Belledune	New Brunswick	Canada	-	No	tsunami.gov
Pointe Saint-Pierre	Quebec	Canada	-	No	tsunami.gov
Sept-Iles	Quebec	Canada	-	No	tsunami.gov
Harrington Harbour	Quebec	Canada	-	No	tsunami.gov
Channel-Port aux Basques	Newfoundland	Canada	-	No	tsunami.gov
Argentia	Newfoundland	Canada	-	No	tsunami.gov
Saint Johns	Newfoundland	Canada	stjo	No	tsunami.gov
Lanse-au-Clair	Labrador	Canada	-	No	tsunami.gov
Holton Harbour	Labrador	Canada	-	No	tsunami.gov
Nain	Labrador	Canada	nain	No	tsunami.gov
Hebron	Labrador	Canada	-	No	tsunami.gov
Brevoort Harbour	Nunavut	Canada	-	No	tsunami.gov
Cape Dyer	Nunavut	Canada	-	No	tsunami.gov
Clyde River	Nunavut	Canada	-	No	tsunami.gov
Dundas Harbour	Nunavut	Canada	-	No	tsunami.gov
Virgin Gorda	British Virgin Is.	British Virgin	-	No	tsunami.gov
Sable Island	Nova Scotia	Canada	-	No	tsunami.gov
Cypremort Point	Louisiana	United States	-	No	tsunami.gov
Cameron	Louisiana	United States	cpla	No	tsunami.gov
Amerada Pass	Louisiana	United States	apla	No	tsunami.gov
Annapolis	Maryland	United States	anmd	No	tsunami.gov
Atlantic Beach	North Carolina	United States	-	No	tsunami.gov
Bishops Head	Maryland	United States	bhmd	No	tsunami.gov
Brandywine Shoal Light	Delaware	United States	bsde	No	tsunami.gov
Conimicut Light	Rhode Island	United States	clri	No	tsunami.gov
Dauphin Island	Alabama	United States	dial	No	tsunami.gov
Dock E	Mississippi	United States	dkms	No	tsunami.gov
Eagle Point	Texas	United States	eptx	No	tsunami.gov
Fall River	Massachusetts	United States	fama	No	tsunami.gov
Freshwater Canal	Louisiana	United States	fcla	No	tsunami.gov
Galveston Bay Entrance	Texas	United States	betx	No	tsunami.gov
Galveston Pleasure Pier	Texas	United States	pptx	No	tsunami.gov
Hatteras	North Carolina	United States	htnc	No	tsunami.gov
Lake Charles	Louisiana	United States	lcla	No	tsunami.gov
Mayport	Florida	United States	mpfl	No	tsunami.gov
Morgans Point	Texas	United States	mptx	No	tsunami.gov
Oyster Landing	South Carolina	United States	olsc	No	tsunami.gov
Palm Beach	Florida	United States	lwfl	No	tsunami.gov
Panama City Beach	Florida	United States	pcbf	No	tsunami.gov
Pascagoula	Mississippi	United States	pams	No	tsunami.gov
Pensacola	Florida	United States	pnfl	No	tsunami.gov
Port Tampa	Florida	United States	ptfl	No	tsunami.gov
Rudee Inlet	Virginia	United States	ruva	No	tsunami.gov
Shell Beach	Louisiana	United States	sbla	No	tsunami.gov
Tortola	British Virgin Is.	British Virgin	tort	No	tsunami.gov
US Coast Guard	Alabama	United States	cgal	No	tsunami.gov
Wells	Maine	United States	well	No	tsunami.gov

## Appendix D. 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 the Emergency Alert System (EAS), sirens, or loudspeakers.

Exercises stimulate the development, training, testing, and evaluation of Disaster Plans and Standard Operating Procedures (SOPs). Exercise participants may use their own past multi-hazard drills (e.g. flood, hurricane, tsunami, earthquake, etc.) as a framework to conduct LANTEX22.

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 E 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 a scenario narrative.

5. **Full-scale Exercise:** A Full-scale Exercise is the culmination of a progressive exercise program that has grown with the capacity of the community to conduct exercises. A Full-Scale exercise is a planned activity in a “challenging” environment that encompasses a majority of the emergency management functions. This type of exercise involves the actual mobilization and deployment of the appropriate personnel and resources needed to demonstrate operational capabilities. EOCs and other command 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	Hours	Individual or mixed groups
Drill	2 months	1 day	Individual technical groups generally
Tabletop Exercise	1 month	1-3 days	Single or multiple agency
Functional Exercise	> 3 months	1-5 days	Multiple Agency participation
Full-scale Exercise	>6 months	1 day/ week	Multiple Agency participation

## Appendix E. 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 where resolution is generally agreed upon and then summarized by a group leader. A Tabletop Exercise should have specific goals, objectives, and a scenario narrative.

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

#### 1. Vulnerability Analysis: Problem Statement

*An example for a hurricane might be:*

*Due to the recent Hurricane incidents in 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 an evacuation system is vital. The state of Louisiana continues its ongoing tasks of planning, preparing, and training for Hurricane preparedness.*

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

*An example for a hurricane might be:*

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

#### 3. Scope:

- Exercise Activities**
- Agencies Involved**
- Hazard Type**
- Geographic Impact Area**

*An example might be:*

*Emergency Services coordinators at local levels of government will identify representative jurisdictions from each of the six mutual aid regions located throughout the State to participate as host jurisdictions in a series of disaster preparedness exercises. These host jurisdictions will develop a progressive series of exercises each type building upon the previous type of exercise. The process will begin with a vulnerability analysis for each jurisdiction and continue through a progression of exercise activities including: orientation seminars, workshops, and tabletop and functional*



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

**4. Goals and Objectives:**

**Criteria for good objectives: Think SMART**

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

**An example might be:**

*Comprehensive Exercise Program (CEP) Objectives*

- *To improve operational readiness*
- *To improve multi-agency coordination and response capabilities for effective disaster response*
- *To identify communication pathways and problem areas pre-event between local jurisdictions and operational area, regional and state emergency operations 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
- Provide necessary background information
- Prepare participants for the exercise
- Discovery, report: how do you find out?
- Advance notice?
- Time, location, extent or level of damage

**6. Evaluation:**

The Evaluation should describe the following:

- Objectives Based
- Train Evaluation Teams
- Develop Evaluation Forms

**7. After Action Report (AAR):** The AAR should be compiled using the evaluation reports.

**8. Improvement Plan (IP):** The IP should reduce vulnerabilities.

## Appendix F. 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)

### **GULF & ATLANTIC TSUNAMI EXERCISE TO BE CONDUCTED JUNE 1, 2022**

*(insert community/county/state name)* will join other localities in the Atlantic as a participant in a tsunami response exercise on June 1, 2022. 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 “Events such as the 2011 Japan earthquake and tsunamis as well as the 2022 Tonga eruption and tsunami have reminded the world again of the urgent need to be more prepared for such events,” said (insert name of appropriate official). “This important exercise will test the current procedures of the Tsunami Warning System and help identify operational strengths and weaknesses in each community.” (Please modify for uniqueness.))*

The exercise, titled LANTEX22, will simulate a regional Tsunami Advisory situation throughout the Gulf of Mexico which requires implementation of local tsunami response plans. The exercise will *(insert “include” or “not include”)* public notification.

The exercise will simulate a major earthquake and tsunami generated in the northwest Caribbean Sea at 19.1°N, 81.8°W at 12:00 pm Eastern Daylight Time (*or appropriate local time*) on June 1, 2022. Exercise participants will be provided with a handbook which describes the scenario and contains tsunami messages from the U.S. National Tsunami Warning Center (NTWC). The NTWC is responsible for providing tsunami information to the Atlantic coasts of the U.S. and Canada as well as the Gulf of Mexico coast.

*Insert paragraph tailored for specific community. Could identify participating agencies and specific plans. Could describe current early warning program, past tsunami exercises (if any), ongoing mitigation and public education programs, etc. Could describe tsunami threat, history of tsunami hazards, if any.*

If any real tsunami threat occurs during the time period of the exercise, the exercise will be terminated.

The exercise is sponsored by the U.S. National 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 [nws.weather.gov/nthmp](https://nws.weather.gov/nthmp).

###

On the Web:

National Tsunami Warning Center,  
Pacific Tsunami Warning Center,  
NOAA Tsunami Program

<http://www.tsunami.gov>

NTHMP:

<https://nws.weather.gov/nthmp/>

*Insert state/local emergency response URLs*

LANTEX22 Exercise