

Ejercicio LANTEX 10

Manual del Participante

Un ejercicio de aviso de tsunami (maremoto)
para el Atlántico-Noroeste
24 de marzo de 2010

Programa Nacional para la Mitigación y Amenaza de Tsunamis
Subcomité de Coordinación de Avisos



Traducción del inglés al español por la Red Sísmica de Puerto Rico, UPRM

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EJERCICIO

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1. Trasfondo

Este ejercicio de tsunami (maremoto) se realiza para ayudar en los esfuerzos de preparación ante un tsunami a lo largo de la costa este de Estados Unidos de America (EUA) y Canadá, la costa del Golfo de México, en Puerto Rico y las Islas Vírgenes. Récords históricos de tsunamis del Centro Nacional de Datos Geofísicos (NGDC, por sus siglas en inglés) y de la Administración Atmosférica y Oceánica Nacional (NOAA, por sus siglas en inglés) indican que aproximadamente 85% de los tsunamis oceánicos mundiales ocurren en la Cuenca del Pacífico. La ocurrencia histórica de tsunamis destructivos a lo largo de las costas atlánticas de EUA y Canadá sugieren que estos eventos son raros, aun así existen algunas áreas en la cuenca atlántica en donde ocurren terremotos con el potencial para desarrollar tsunamis destructivos que podrían impactar la costa de EUA y Canadá. Estas áreas incluyen las costas de Puerto Rico, Islas Vírgenes Americanas, la región este de las Islas Azores y porciones del talud continental de la costa de EUA y Canadá debido a deslizamientos submarinos.

Una de las lecciones aprendidas del destructivo tsunami del Océano Índico nos demuestra que aún áreas raramente impactadas por tsunamis pueden sufrir daños tremendo s y muertes si la gente que vive en o viaja a esas áreas no están preparadas.

Las estadísticas obtenidas de la base de datos de tsunamis del NGDC indican que las Islas Vírgenes Americanas fueron golpeadas, en 1867 por un tsunami de hasta 8 m de altura que provocó la muerte de 30 personas. Sobre 140 personas murieron en el oeste de Puerto Rico por un tsunami de 6 m de altura ocurrido en 1918. El Caribe es una región de bordes de placas tectónicas complejos que proveen el mecanismo para que los terremotos provoquen grandes tsunamis.

Otra área, en el Océano Atlántico, capaz de producir grandes terremotos es la región entre Portugal y las Islas Azores. En 1755 un terremoto localizado en esta región con una magnitud estimada en más de 8.0, generó un tsunami de hasta 30 m en Portugal. Este tsunami fue ampliamente registrado alrededor del Atlántico produciendo daños en varios lugares, incluyendo Canadá y el Caribe.

Más cerca a la costa atlántica canadiense, en 1929, un terremoto de magnitud 7.2 generó un gran deslizamiento submarino que provocó un tsunami. Este tsunami alcanzó una amplitud de 7 m en Terranova y causó la muerte a 22 personas. Estudios recientes del talud continental a lo largo de la costa este de EUA muestran que este tipo de tsunami ha ocurrido varias veces en los pasados 10,000 años.

NOAA opera un sistema de alerta de tsunamis para las costas del Atlántico de EUA y el Golfo de México, este de Canadá, Puerto Rico y las Islas Vírgenes a través de su Centro de Alerta de Tsunamis de la Costa Oeste y Alaska (WCATWC, por sus siglas en inglés) sede en Palmer, Alaska. Este centro provee avisos, vigilancias, advertencias y declaraciones de información de tsunamis a estas costas, aproximadamente cinco minutos después de ocurrido

un terremoto. Los destinatarios primarios para los mensajes del atlántico del WCATWC incluyen: las Oficinas de Pronóstico del Tiempo (WFO, por sus siglas en inglés) del Servicio Nacional de Meteorología (NWS, por sus siglas en inglés); los puntos de aviso y centros de operaciones de emergencia del estatal o territorial; la Guardia Costanera de EUA; el Centro de Predicción de Tormentas del Atlántico de Canadá; y el ejército de EUA. Estas agencias transmiten el mensaje a la gente que podría ser impactada por un tsunami. El Centro de Alerta de Tsunamis del Pacífico (PTWC, por sus siglas en inglés) de NOAA en Ewa Beach, Hawaii provee un servicio similar a nivel internacional para el Mar Caribe. La Red Sísmica de Puerto Rico (RSPR) de la Universidad de Puerto Rico en Mayagüez también provee información de terremotos y tsunamis, así como servicio de alerta de tsunami para Puerto Rico y las Islas Vírgenes en coordinación con WCATWC.

NOAA y el Programa Nacional para la Mitigación y Amenaza de Tsunamis (NTHMP, por sus siglas en inglés) proveen la estructura de este ejercicio para que el personal de respuesta a emergencias en la costa atlántica y Puerto Rico/Islas Vírgenes (PR/IV) puedan probar y actualizar sus planes de respuesta ante un tsunami. Los altos niveles de vulnerabilidad a lo largo de la costa atlántica (al igual que la analogía del Océano Índico) deben proveer un incentivo fuerte para que las jurisdicciones locales se preparen para un tsunami.

Este ejercicio proveerá los mensajes de alerta de tsunami simulados desde el WCATWC. Este tsunami será producido por un terremoto hipotético localizado a 90 millas al sur de Nantucket, Massachusetts (MA) y a 170 millas al sureste de Boston, MA (en las coordenadas 40.0°N, 70.0°O). Ejercicios como éste aseguran que las comunidades de la costa atlántica de EUA, Canadá y del Caribe estén preparadas para responder en el caso de un tsunami. Ejercicios realizados recientemente en la Cuenca del Pacífico han sido efectivos en fortalecer los niveles de preparación de las organizaciones de manejo de emergencia.

2. Concepto del ejercicio

2.1 Propósito

El propósito de este ejercicio es mejorar la efectividad del Sistema de Alerta de Tsunami a lo largo de la costa atlántica de EUA, Canadá y el Caribe. El ejercicio provee una oportunidad para las organizaciones de manejo de emergencia a lo largo de la costa atlántica y Puerto Rico/Islas Vírgenes para ejercitarse sus líneas operacionales de comunicación, revisar sus procedimientos de respuesta a tsunami y promover la preparación ante un tsunami. Probar regularmente los planes de respuesta es crucial para estar mejor preparados ante una emergencia. Esto es, particularmente, cierto para los tsunamis ya que son eventos infrecuentes pero de gran impacto. Se fomenta la participación de todas las organizaciones de manejo de emergencia (OME) de la costa atlántica de Estados Unidos y Canadá.

2.2 Objetivos

Cada organización puede desarrollar objetivos propios para este ejercicio, dependiendo de su nivel de participación en el escenario. Los objetivos principales del ejercicio son los siguientes:

- Asegurar la transmisión de mensajes de WCATWC a través de los contactos primarios a las OME costeras y probar la coordinación con la RSPR.
- Probar los planes de respuesta de tsunami para las OME costeras del Atlántico y de PR/IV que tienen planes desarrollados y proveer un catalítico para aquellas OME que aún no han desarrollado uno.
- Que las OME costeras revisen, discutan y evalúen varias de las opciones de comunicación para recibir y diseminar mensajes de tsunami.
- Que las OME costeras revisen, discutan y evalúen posibles acciones y retos de respuesta ante un tsunami.
- Identificar procesos para emitir notificaciones locales de “all clear”.

2.3 Tipo de ejercicio

El ejercicio debe llevarse a cabo de manera tal que las comunicaciones y la toma de decisiones, en los varios niveles organizacionales, se lleven a cabo sin interrumpir y alarma al público general. Sin embargo, los participantes individuales pueden (a su discreción) extender el ejercicio para probar los sistemas de notificación locales como sirenas o altoparlantes.

Los ejercicios estimulan el desarrollo, entrenamiento, pruebas y evaluación de los Planes de Desastre y Procedimientos Estándares de Operaciones. Los participantes pueden usar los ejercicios de peligros múltiples (inundación, huracán, terremoto, tsunami, LANTEX09, etc.) que tengan preparados previamente como esquema para conducir LANTEX 10.

Los ejercicios se pueden conducir en varias escalas de magnitud y sofisticación. Los ejemplos siguientes muestran diferentes tipos de ejercicios conducidos por las OME.

1. Ejercicio de Orientación (Seminario): Un ejercicio de orientación o seminario establece la base para un programa comprensivo de ejercicio. Es un evento planificado, desarrollado para unir individuos y oficiales con un papel o interés en planificación de respuesta a peligros múltiples, solución de problemas, desarrollo de procedimientos de estándares de operaciones e integración y coordinación e integración de recursos. Un ejercicio de orientación tendrá una meta específica y objetivos escritos y resultará en un Plan de Acción acordado.

2. Ejercicio de Práctica (Drill): El ejercicio de práctica es una actividad planificada que prueba, desarrolla y/o mantiene las habilidades en uno o pocos procedimientos de respuesta a emergencias. Las prácticas generalmente involucran respuestas operacionales de departamentos o agencias. Las prácticas pueden involucrar notificaciones internas y/o actividades en el campo.

3. Ejercicio de mesa/teórico: El ejercicio de mesa es una actividad planificada en la cual oficiales locales, personal clave y organizaciones con responsabilidades de manejo de emergencia son expuestos a situaciones de emergencia simuladas. Se desarrolla de manera informal, en una sala de conferencias y es diseñado para provocar discusiones constructivas entre los participantes. Los participantes examinarán e intentarán resolver problemas basados en planes y procedimientos existentes. Se exhorta a los individuos a discutir decisiones a profundidad con énfasis en la solución de problemas a paso lento contrario a la toma de decisiones a tiempo real. Un ejercicio de mesa debería tener metas y objetivos específicos y una narrativa del escenario (en el Anejo A se presenta un ejemplo de un ejercicio de mesa).

4. Ejercicio funcional: Un ejercicio funcional es una actividad planificada diseñada para probar y evaluar las capacidades de la organización. También es utilizada para evaluar la capacidad del sistema de manejo de emergencia de una comunidad probando el Plan de Operaciones de Emergencia. El mismo está basado en una simulación de una situación de emergencia realista, que incluye una descripción de la situación (narrativa) con comunicaciones entre participantes y simuladores. El ejercicio funcional le da a los participantes (quienes toman las decisiones) una experiencia completamente simulada de estar en un evento de desastre a gran escala. El mismo debe desarrollarse en el lugar de coordinación apropiado (es decir, en un centro de operaciones de emergencia, centro de mando de emergencia, puesto de mando, centro de control, etc) y activar a todos los miembros designados en el plan. Agencias internas y externas (gobierno, sector privado y agencias de voluntarios) deben involucrarse. Se requieren participantes, directores, simuladores y evaluadores. El envío de mensajes será simulado e insertado por el equipo de control para que los participantes tomen las correspondientes acciones y respuestas, bajo condiciones reales de tiempo limitado. Podría o no incluir desalojos del público. El ejercicio funcional deberá tener metas y objetivos específicos y una narrativa del escenario.

5. Ejercicio a gran escala: Un ejercicio a gran escala es la culminación de un programa de ejercicios progresivos que ha crecido junto a la capacidad de la comunidad para conducir los mismos. El ejercicio a gran escala es una actividad planificada en un ambiente "retante" que abarca la mayoría de las funciones de manejo de emergencia. Este tipo de ejercicio involucra la mobilización y despliegue del personal apropiado y de recursos necesarios con el fin de demostrar las capacidades operacionales. Se requiere la activación de centros de operación de emergencias y otros centros de comando. El ejercicio a gran escala es el más grande, costoso y complejo dentro de los distintos tipo de ejercicio. Este podría o no incluir desalojos del público.

Ejemplos de Periodos de tiempo para los diferentes tipos de ejercicio

Tipo	Periodo de planificación	Duración	Comentarios
Seminario	2 semanas	1 día	Individuos o grupos mixtos
Práctica (Drill)	2 días	1 día	Generalmente individuos o grupos técnicos
Ejercicio de mesa o teórico	2 semanas	1-3 días	Una o múltiples agencias
Ejercicio funcional	1-2 meses	1-5 días	Participación multi-agencial
Ejercicio a gran escala	2-6 meses	1 día/semana	Participación multi-agencial

3. Bosquejo del ejercicio

3.1 General

El escenario para este ejercicio comenzará con un terremoto de magnitud 7.5 (mayor) a 90 millas de sur de Nantucket, Massachusetts (MA) y 170 millas al sureste de Boston, MA (en las coordenadas 40.0°N y 70.0°O). El sismo ocurrirá a 13:00 UTC, el 24 de marzo de 2010 e inmediatamente genera un deslizamiento submarino de sedimentos de unos 100 km cúbicos, deslizándose hacia el sur desde las coordenadas 40.0°N y 70.0°O a un máximo de 50 metros/segundo. El ancho del deslizamiento es 30 km y el largo del bloque es de 20 km. El levantamiento (“uplift”) del temblor no genera un tsunami significativo, pero el deslizamiento genera un tsunami destructivo a lo largo de algunas porciones de la costa este, así como en Puerto Rico y las Islas Vírgenes (con amplitudes de tsunami sobre los 1.5 m). Un tsunami moderado, aunque dañino es observado a lo largo de otras partes de la costa atlántica estadounidense y canadiense (con amplitudes de tsunami entre 0.5 a 1.5 m). Gran parte de las regiones a lo largo de la costa no experimentan inundaciones mayores, aunque todas las áreas experimentan corrientes fuertes que podrían producir daños significativos a botes, puertos y muelles, al igual que hace muy peligroso el nadar.

Inicialmente, se genera un aviso para la región epicentral, y luego se expande para incluir gran parte de la costa este de EUA y Canadá, al igual que a Puerto Rico y las Islas Vírgenes. Se genera una advertencia para el Golfo de México, Labrador y partes de Terranova. El Anejo B muestra las amplitudes esperadas a lo largo de la costa del deslizamiento. Es importante señalar que estas amplitudes serían las registradas por los mareógrafos y no necesariamente reflejan el nivel de inundación real esperado a lo largo de la costa. Típicamente, los niveles de inundación vertical pueden exceder el doble de la altura de los niveles observados por los mareógrafos.

WCATWC no transmitirá mensajes en vivo (tiempo real) durante el ejercicio. Sólo transmitirá el mensaje inicial "dummy" a través de rutas de comunicación estándar, para dar inicio al ejercicio a las 9:05 am (hora local) del 24 de marzo de 2010. El contenido de este mensaje "dummy" se presenta en el Anejo C. El mensaje "dummy" indicará que los participantes del ejercicio deberán referirse al primer

mensaje provisto en este manual. De ahí en adelante, los participantes deben seguir el programa que se presenta en la Tabla 1 para abrir y leer los mensajes subsiguientes. La Tabla 1 presenta el tiempo de emisión de los mensajes de WCATWC si este fuera un evento real. Estos mensajes deberán ser usados por las OME para correr el tiempo del ejercicio. Los mensajes (en el Anejo D) cubren un periodo de 13 horas, aunque en un evento real pudieran durar más tiempo. Los encabezados oficiales utilizados por la Organización Mundial de Meteorología (WMO, por sus siglas en inglés) y el Sistema Avanzado de Procesamiento Interactivo del Tiempo (AWIPS, por sus siglas en inglés) y usados en el mensaje "dummy" se presentan en la Tabla 2. Durante este ejercicio, WCATWC también probará la conexión entre la Línea Directa de Huracanes y las Oficinas de Pronóstico del Tiempo.

Para eventos reales el WCATWC emite dos productos oficiales cada vez que un mensaje real es emitido. El primero, y aquellos presentados en el Anejo D, son conocidos como mensaje estándar. Este mensaje es un mensaje segmentado que incluye las zonas codificadas del NWS, Códigos de Eventos para Tiempos Válidos (VTEC, por sus siglas en inglés), y su nivel de amenaza en la parte inferior del mensaje. La segmentación es usada en los sistemas de procesamiento automático que analizan sintácticamente los productos del NWS. El producto estándar también presenta los tiempos esperados de arribo. El segundo producto se conoce como el mensaje público. Este mensaje no tiene segmentación y es escrito en un formato fácil de leer y sin tabular. Los productos contienen la misma información básica. Las OME, generalmente usan el producto estándar para respuesta a una alerta porque contiene información más completa. WCATWC también emite productos adicionales de gráficas y están disponibles en línea a través de su página del internet. El Anejo E presenta ejemplos de estos mensajes.

Los participantes pueden elegir el utilizar sus propios períodos de tiempo durante el ejercicio, para lograr objetivos particulares. Por ejemplo, la oficina de control de una OME en particular puede decidir someter los boletines de WCATWC dentro del ejercicio cuando así deseen, o, como alternativa colocar los boletines en sobres identificados con el tiempo en que deben ser abiertos (escrito en cada uno de ellos). Cada agencia participante debe tener su propia colección de sobres. Los mensajes en el Anejo D facilitarán este enfoque.

Se exhorta la participación de las OME para asegurar que los planes de respuesta estén en orden. Los tiempos de arribo estimados del tsunami, en varios lugares de la costa atlántica de EUA y Canadá, están incluidos en los mensajes de WCATWC (el Anejo E contiene una lista de tiempos de arribo a otros lugares de la costa atlántica que estarían disponibles en la internet durante un evento real, al igual que un mapa con los tiempos de viaje del tsunami). Además, las OME son bienvenidas a modificar los tiempos de arribo y las amplitudes de onda, según convenga para su ejercicio. Por ejemplo, el tsunami puede llegar antes y con una amplitud mayor. Otras acciones son bienvenidas, como por ejemplo informes de daños de tsunami.

3.2 Programa maestro (guión del ejercicio)

Tabla 1: Periodo de tiempo del escenario

Tsunami generado por un terremoto de magnitud 7.5, el 24 de marzo de 2010 a las 13:00 UTC (09:00 am hora local) con epicentro en la latitud 40°N y la longitud 70°O.

Fecha	Hora UTC	Hora local	Mensaje de WCATWC		
			#	Tipo	Dummy
03/24/2010	13:00	9:00 am	Ocurre el terremoto		
03/24/2010	13:05	9:05 am	01	WWA	Sí
03/24/2010	13:35	9:35 am	02	WWA	No
03/24/2010	14:05	10:05 am	03	WWA	No
03/24/2010	14:35	10:35 am	04	WWA	No
03/24/2010	15:05	11:05 am	05	WWA	No
03/24/2010	15:35	11:35 am	06	WWA	No
03/24/2010	16:05	12:05 pm	07	WWA	No
03/24/2010	16:35	12:35 pm	08	WWA	No
03/24/2010	17:05	1:05 pm	09	WWA	No
03/24/2010	17:35	1:35 pm	10	WWA	No
03/24/2010	18:05	2:05 pm	11	WWA	No
03/24/2010	19:05	3:05 pm	12	WWA	No
03/24/2010	20:05	4:05 pm	13	WWA	No
03/24/2010	21:05	5:05 pm	14	WWA	No
03/24/2010	22:05	6:05 pm	15	WWA	No
03/24/2010	23:05	7:05 pm	16	WWA	No
03/24/2010	00:05	8:05 pm	17	WWA	No
03/24/2010	01:05	9:05	18	WWA	No
03/24/2010	02:05	10:05	19	WWA	No

Tipos de mensajes de WCATWC:

WWA Aviso/Vigilancia/Advertencia

Can WWA Cancelación

Dummy:

Sí Emitido

No No emitido

Tabla 2: Tipos de productos

Tipos de productos emitidos para el mensaje "dummy" con sus métodos de transmisión

Centro	WMO ID	AWIPS ID	NWWS	GTS	EMWIN	Fax	Correo Electrónico
WCATWC	WEXX20 PAAQ	TSUAT1	Sí	Sí	Sí	Sí	Sí

NWWS Servicio de Cable del Tiempo NOAA

GTS Sistema de Tele comunicaciones Global

EMWIN Red de Información del Tiempo de los Manejadores de Emergencia

3.3 Medidas a ser tomadas en caso de un evento real

En el caso de que un **evento real ocurra durante el ejercicio**, WCATWC emitirá sus productos de mensajería regular para el evento. Se dará mayor prioridad a los mensajes reales y el centro decidirá si emite el mensaje "dummy" del ejercicio y si continúa proveyendo apoyo telefónico para el mismo. Terremotos pequeños que solamente provoquen una declaración de información de tsunami no interrumpirán el ejercicio. Toda documentación y correspondencia relacionada a este ejercicio será claramente identificada como **LANTEX 10 y Ejercicio**.

3.4 Recursos

Aunque las organizaciones de manejo de emergencia serán notificadas de antemano sobre el ejercicio, se solicita que se utilicen niveles realistas en la utilización de recursos durante el ejercicio. Esto permitirá la evaluación de los posibles problemas que se podrían presentar durante un evento real. Dichas organizaciones podrán tener un turno especial de trabajo que les permita continuar ininterrumpidamente las actividades normales de la agencia.

Se pueden realizar preguntas sobre el ejercicio a:

Melinda Bailey	NWS Southern Region	817-978-1100x107	melinda.bailey@noaa.gov
Don Miller	NWS Eastern Region	631-244-0122	donald.j.miller@noaa.gov
Robert Ward	NTHMP Eastern Rep.	410-517-3606	rward@mema.state.md.us
Charles Williams	NTHMP GoM Rep.	205-280-2222	charles.williams@ema.alabama.gov
Paul Whitmore	WCATWC Director	907-745-4212	paul.whitmore@noaa.gov
Bill Knight	WCATWC TWSO	907-745-4212	william.knight@noaa.gov
James Waddell	WCATWC Rep.	907-745-4212	james.waddell@noaa.gov
Víctor Huérzano	PRSN Director	787-833-8433	victor@prsn.uprm.edu

3.5 Arreglos con los medios de comunicación

Una ventaja de conducir este tipo de ejercicio es que promueve la creación de conciencia sobre el tema del ejercicio (en este caso sobre los tsunamis). Muchos residentes en la costa este de EUA y el Golfo de México podrían no darse cuenta de la existencia de un sistema de alerta de tsunami para la región, mucho menos qué tipo de respuesta deben ejecutar ante la emergencia. Las comunidades podrían invitar a los medios de comunicación local al ejercicio para promover conciencia del peligro de los tsunamis en su región. El Anejo F contiene un ejemplo del comunicado de prensa que puede adaptarse según sea necesario.

NOAA emitirá un comunicado de prensa, varios días antes del ejercicio, describiendo el ejercicio y el propósito del mismo.

4. Evaluación después del ejercicio

Se les solicita a todas las agencias participantes que provean una breve retroalimentación o evaluación sobre el ejercicio. Esta retroalimentación ayudará a NTHMP y NOAA en la evaluación del ejercicio LANTEX 10 y el desarrollo de ejercicios subsiguientes. Además ayudará a las agencias de respuesta a documentar las lecciones aprendidas.

Los formularios de evaluación del ejercicio están incluidos en el Anejo G. Los formularios deben llenarse en o antes del viernes, 9 de abril de 2010 y enviarse a la siguiente dirección:

WCATWC Director
NOAA/West Coast/Alaska Tsunami Warning Center
910 South Felton Street
Palmer, Alaska 99645

FAX: 907-745-6071

También se podrá escanear y enviar por correo electrónico a paul.whitmore@noaa.gov

Los formularios de evaluación del ejercicio están designados para "uso oficial solamente" y no serán distribuidos por NOAA o NTHMP a otras agencias.

Anejo A. Ejemplo de ejercicio de mesa o teórico

Pasos de desarrollo del ejercicio de mesa

Fuente: Oficina de Servicios de Emergencia de California

El ejercicio de mesa es una actividad planificada en la cual oficiales locales, personal clave y organizaciones con responsabilidades en el manejo de emergencia son expuestos a situaciones de emergencia simulada. Se desarrolla de manera informal, a paso lento, en una sala de conferencias, y es diseñado para provocar discusiones constructivas entre los participantes para evaluar planes, políticas y procedimientos. Los participantes examinarán y tratarán de resolver problemas basados en planes y procedimientos existentes. Se exhorta a los individuos a discutir las decisiones a profundidad basado en sus Procedimientos de Operación Estándar (SOP, por sus siglas en inglés), con énfasis en la solución de problemas a paso lento, contrario a la toma de decisiones en tiempo real. El moderador del ejercicio introduce a los participantes a un escenario de tsunami simulado por medio de un mensaje escrito, llamada telefónica simulada o llamada de radio (o por otros medios). También se presentan problemas y actividades del ejercicio. Los participantes conducen discusiones en grupo, llegan a acuerdos por consenso, que más adelante será asumidas por el líder del grupo. Un ejercicio de mesa o teórico deberá contener metas y objetivos específicos y una narrativa del escenario.

A continuación se provee una estructura del ejercicio de mesa o teórico. Así mismo se provee un texto y un ejercicio de ejemplo.

1. Análisis de vulnerabilidad: Declaración del problema

Ejemplo en caso de un huracán:

Debido a los recientes incidentes de huracán en la región del sureste de los Estados Unidos, la amenaza que presentan estos desastres ha estado más presente, por lo que la necesidad de un sistema de desalojo es vital. El estado de Luisiana continúa sus tareas de planificar, educar y entrenar para la preparación ante un huracán.

2. Propósito (misión): Intención; qué se espera lograr (declaración de política)

Ejemplo en caso de un huracán:

El estado de Luisiana se ha dado cuenta y reconoce la necesidad de un sistema de desalojo eficiente y efectivo. Por esta razón, está respondiendo con este Plan Comprensivo del Ejercicio. Estos eventos incluirán seminarios, talleres, ejercicios de mesa, ejercicios funcionales y a gran escala, dentro de un marco de tiempo de 18 meses, bajo el programa de becas de Seguridad Nacional del Estado.

3. **Alcance:** **Actividades del ejercicio**
Agencias involucradas
Tipo de amenaza
Área geográfica de impacto

Ejemplo:

Los coordinadores de servicios de emergencia local identificarán jurisdicciones representativas de cada una de las 6 regiones de ayuda mutua localizadas a través del estado. Estas participarán como jurisdicciones anfitrionas en una serie de ejercicios de preparación ante desastre. Estas jurisdicciones anfitrionas desarrollarán una serie de ejercicios progresivos (de cada tipo) partiendo de ejercicios previos. El proceso comenzará con un análisis de vulnerabilidad para cada jurisdicción y continuará a través de una serie de actividades de ejercicios incluyendo: seminarios de orientación, talleres, ejercicios de mesa y ejercicios funcionales. El objetivo eventual de estas actividades será reducir los impactos de los desastres en las poblaciones e infraestructura de las ciudades. Todos los eventos serán evaluados utilizando el Programa de Evaluación de Ejercicio de Seguridad Nacional de EUA (HSEEP, por sus siglas en inglés) y estándares de reporte de acción (AAR, por sus siglas en inglés). Los pasos para las acciones correctivas serán parte del informe y de los procesos de acción posterior. Jurisdicciones aledañas, en el área de ayuda mutua, servirán como miembros del equipo de diseñadores del ejercicio, evaluadores del ejercicio u observadores del ejercicio. Con el propósito de transferir información y así aumentar su preparación operacional. Las jurisdicciones participarán cada dos años de forma rotativa, para proveer la oportunidad de participación a múltiples jurisdicciones.

4. **Metas y objetivos:**

Criterios para la creación de buenos objetivos: "Think Smart"

- Simple (conciso)
- Medible
- Que sea viable (¿se puede lograr durante el ejercicio?)
- Realista (y retante)
- Orientado a tareas y funciones

Un ejemplo puede ser:

Objetivos del Programa Comprensivo del Ejercicio

- Mejorar la preparación operacional
- Mejorar la coordinación multi-agencial y la capacidad de respuesta efectiva ante un desastre
- Identificar las vías de comunicación y las áreas problemáticas antes del evento; entre las jurisdicciones locales y las áreas de cooperación, centros regionales y estatales de operaciones de emergencia

- Establecer métodos uniformes para el ordenamiento, al igual que el rastreo y almacenamiento de recursos para agencias involucradas en todos los niveles del gobierno.

5. **Narrativa:**

La narrativa debe describir lo siguiente:

- Generación del evento de desastre o emergencia
- Descripción del ambiente al momento en que comienza el ejercicio
- Proveer información de trasfondo necesario
- Preparación de los participantes para el ejercicio
- Descubrir, informar: ¿Cómo te enteraste?
- Se notificará por anticipado?
- Hora, lugar y nivel de daño

6. **Evaluación:**

La evaluación debe describir lo siguiente:

- Basarse en objetivos
- Entrenar a los equipos de evaluación
- Desarrollar formularios de evaluación

7. **Informes de acción después del evento (AAR):** El AAR debe ser compilado usando los informes de evaluación
8. **Plan de mejoramiento (IP):** El IP debe reducir vulnerabilidades.

Anejo B. Descripción del escenario

Para simular el tsunami se utilizó el modelo de pronóstico de tsunami de Alaska. El tsunami será generado por un terremoto hipotético de magnitud 7.5 a 90 millas al sur de Nantucket, MA y a 170 millas al sureste de Boston, MA; en la latitud 40.0° N y la longitud 70.0° O. El mismo será asociado a un deslizamiento del talud continental de 100 km cúbicos. El tsunami generado por el deslizamiento es 30 veces más grande que aquél generado por el levantamiento (uplift) del temblor.

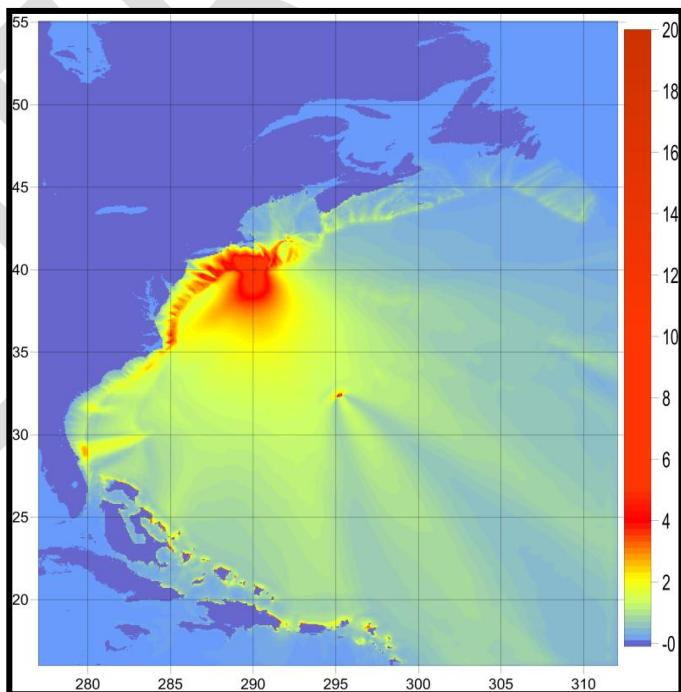
Los parámetros de falla son los siguientes:

Largo:	70 km
Ancho:	35 km
Profundidad:	7 km
Rumbo:	158°
Buzamiento:	60°
Desliz:	100°
Momento:	7.5×10^{27} dyne-cm

Los parámetros del deslizamiento del talud continental son los siguientes:

Ancho:	30 km
Largo (cuesta abajo):	20 km
Velocidad:	0 a 50 m/s

El modelo fue computado usando una rejilla de resolución de 4 minutos en mar abierto y rejillas de resolución de 15 segundos adicionales en la costa atlántica de EUA y Canadá, Bermuda y la región de Puerto Rico y las Islas Vírgenes.



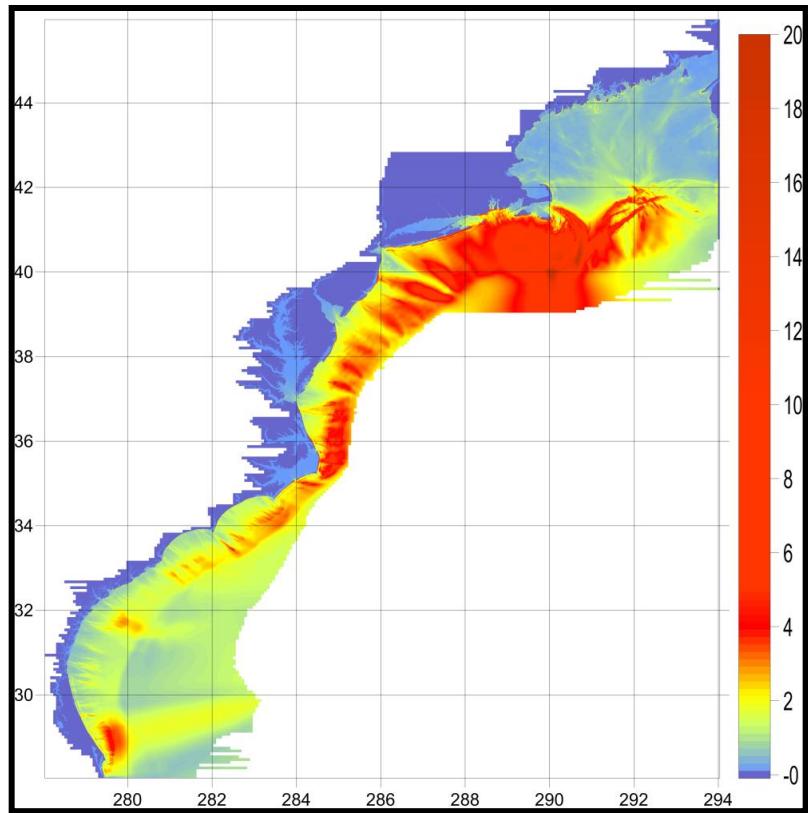


Figura B1. Amplitud máxima de tsunami modelada a través del Atlántico Norte (escala en metros).

Figura B2. Amplitud máxima de tsunami modelada en las rejillas más finas a la costa atlántica de EUA. (escala en metros).

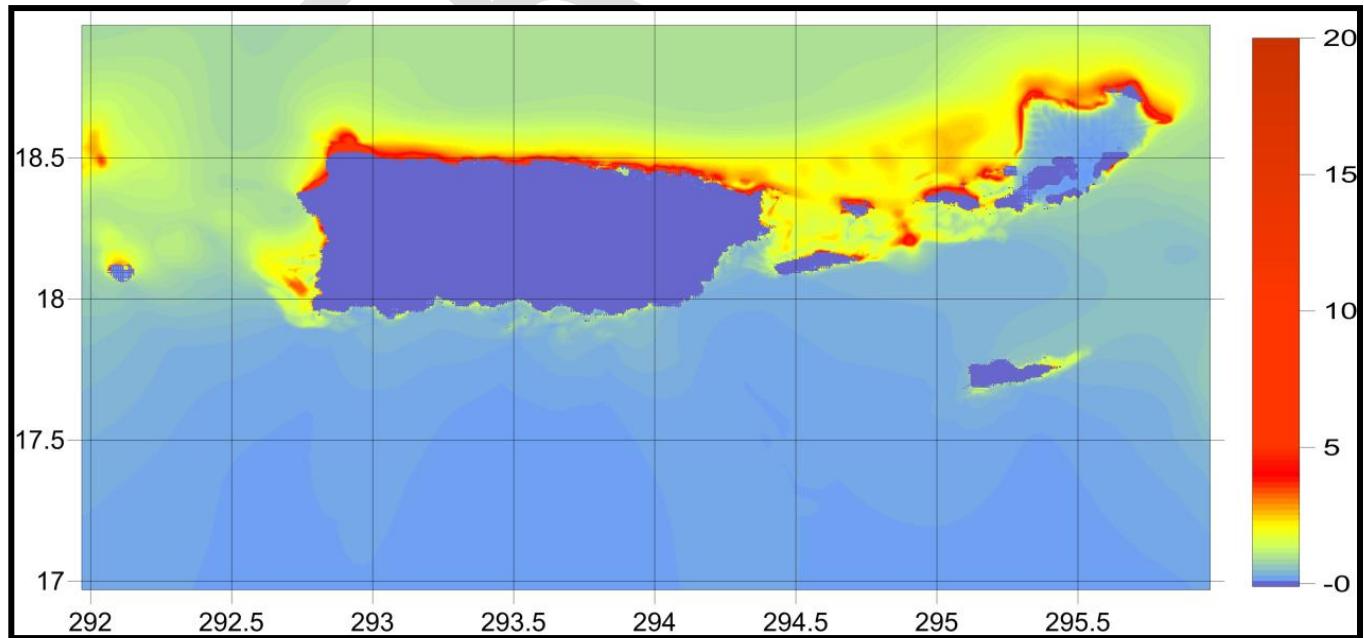


Figura B3. Amplitudes máximas de tsunami modeladas utilizada cerca de Puerto Rico y las Islas

Vírgenes (escala en metros, aunque diferente a las escalas de las figuras superiores).

Tabla B1. Provee las amplitudes máximas modeladas en varios puntos a lo largo del área del ejercicio.
Amplitud indica el nivel del tsunami sobre el nivel normal del mar.

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

Limetree Bay, VI	0.72	3.48	208.8
Isla Vieques, PR	1.72	3.48	208.8
Wrightsville, NC	1.54	3.52	211.2
Isla Magueyes, PR	0.61	3.53	211.8
Charlotte Amalie, VI	2.12	3.56	213.6
Cutler NAS, ME	0.58	3.60	216.0
Bar Harbor, ME	0.62	3.62	217.2
Portland, ME	0.28	3.62	217.2
Boston, MD	0.17	3.72	223.2
New Haven, CT	0.06	3.82	229.2
Port Canaveral, FL	1.44	3.87	232.2
Bridgeport, CT	0.14	3.88	232.8
Eastport, ME	0.05	4.20	252.0
Ship John Shoals, NJ	0.09	4.22	253.2
Springmaid, SC	1.51	4.23	253.8
Flagler, FL	2.15	4.23	253.8
Vilano Beach, FL	1.11	4.38	262.8
Charleston, SC	0.34	4.42	265.2
Windmill, VA	0.04	4.80	288.0
Kings Point, NY	0.17	4.98	298.8
Marcus Hook, PA	0.15	6.53	391.8
Annapolis, MD	0.04	9.11	546.6

Anejo C. Mensaje Dummy emitido por el WCATWC

(Este mensaje permanecerá en inglés, ya que WCATWC sólo emite mensajería en este idioma.)

WEXX20 PAAQ 241305
TSUAT1

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
9:05 AM EDT WED MAR 24

...LANTEX 10 TSUNAMI EXERCISE MESSAGE. REFER TO WCATWC MESSAGE 1 IN THE EXERCISE HANDBOOK. THIS IS AN EXERCISE ONLY...

THIS MESSAGE IS BEING USED TO START OFF THE LANTEX 10 NORTHWEST ATLANTIC TSUNAMI EXERCISE. THIS WILL BE THE ONLY EXERCISE MESSAGE TRANSMITTED FROM THE WEST COAST/ALASKA TSUNAMI WARNING CENTER. EXERCISE PARTICPANTS SHOULD REFER TO THE SCENARIO TIMELINE IN THE HANDBOOK FOR FUTURE MESSAGES. THE HANDBOOK IS AVAILABLE AT THE WEB SITE WCATWC.ARH.NOAA.GOV. THE EXERCISE PURPOSE IS TO PROVIDE EMERGENCY MANAGEMENT A REALISTIC SCENARIO TO TEST TSUNAMI RESPONSE PLANS.

THIS IS ONLY AN EXERCISE.

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Anejo D. Mensajería emitida por el WCATWC

(Esta mensajería permanecerá en inglés, ya que WCATWC sólo emite mensajería en este idioma.)

Los siguientes mensajes, creados para el ejercicio de tsunami LANTEX 10, son representativos de productos estándares oficiales emitidos por el Centro de Alerta de Tsunami de la Costa Oeste y Alaska (WCATWC, por sus siglas en inglés) durante un terremoto de magnitud 7.5 y un tsunami producido a 90 millas al sur de Nantucket, MA y a 170 millas al sureste de Boston, MA; en las coordenadas 40.0°N y 70.0°O. Durante un evento real, el WCATWC emitirá también productos gráficos y de base html en su página web vía RSS.

WCATWC Message #1

WEXX20 PAAQ 241305
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 1
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
905 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEW JERSEY - NEW YORK - CONNECTICUT -
RHODE ISLAND AND MASSACHUSETTS FROM SANDY HOOK NEW JERSEY
TO MERRIMACK RIVER MASSACHUSETTS...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA - FLORIDA -
GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA -
MARYLAND - DELAWARE AND NEW JERSEY FROM BROWNSVILLE TEXAS
TO SANDY HOOK NEW JERSEY...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK -
NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM MERRIMACK
RIVER MASSACHUSETTS TO CAPE CHIDLEY LABRADOR...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
PUERTO RICO AND THE VIRGIN ISLANDS...

RECOMMENDED ACTIONS

IT IS NOT KNOWN - REPEAT NOT KNOWN - IF A TSUNAMI EXISTS BUT A
TSUNAMI MAY HAVE BEEN GENERATED. PERSONS IN LOW-LYING COASTAL
AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY
OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE
AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

THIS MESSAGE IS BASED MAINLY ON EARTHQUAKE DATA. AS MORE
INFORMATION BECOMES AVAILABLE THE WARNING AREAS WILL BE REFINED.

PRELIMINARY EARTHQUAKE PARAMETERS
MAGNITUDE - 7.5
TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010

1300 UTC MAR 24 2010
LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 30 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

ANZ330-335-338-350-353-355-230>237-250-254-255-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-241405-
/T.NEW.PAAQ.TS.W.0010.100324T1305Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING SANDY HOOK NEW JERSEY
TO MERRIMACK RIVER MASSACHUSETTS
905 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND AND MASSACHUSETTS FROM SANDY HOOK NEW JERSEY TO MERRIMACK RIVER MASSACHUSETTS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE WARNING ARE PROVIDED BELOW.

MONTAUK-NY	1053	EDT MAR 24	MANHATTAN-NY	1231	EDT MAR 24
NANTUCKET IS-MA	1119	EDT MAR 24	BOSTON-MA	1255	EDT MAR 24

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #2

WEXX20 PAAQ 241335
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 2
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
935 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEW JERSEY - NEW YORK - CONNECTICUT -
RHODE ISLAND AND MASSACHUSETTS FROM SANDY HOOK NEW JERSEY
TO MERRIMACK RIVER MASSACHUSETTS...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA - FLORIDA -
GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA -
MARYLAND - DELAWARE AND NEW JERSEY FROM BROWNSVILLE TEXAS
TO SANDY HOOK NEW JERSEY...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK -
NOVA SCOTIA - NEWFOUNDLAND AND LABRADOR FROM MERRIMACK
RIVER MASSACHUSETTS TO CAPE CHIDLEY LABRADOR...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
PUERTO RICO AND THE VIRGIN ISLANDS...

RECOMMENDED ACTIONS

IT IS NOT KNOWN - REPEAT NOT KNOWN - IF A TSUNAMI EXISTS BUT A
TSUNAMI MAY HAVE BEEN GENERATED. PERSONS IN LOW-LYING COASTAL
AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY
OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE
AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

THIS MESSAGE IS BASED MAINLY ON EARTHQUAKE DATA. AS MORE
INFORMATION BECOMES AVAILABLE THE WARNING AREAS WILL BE REFINED.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5

TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010

LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
170 MILES/274 KM SE OF BOSTON MASSACHUSETTS

DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL
ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO
AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD
INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT
WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL
CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE
INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 30 MINUTES OR SOONER IF
THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT
UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE
WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

ANZ330-335-338-350-353-355-230>237-250-254-255-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-241435-

/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING SANDY HOOK NEW JERSEY
TO MERRIMACK RIVER MASSACHUSETTS
935 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEW JERSEY - NEW YORK - CONNECTICUT -
RHODE ISLAND AND MASSACHUSETTS FROM SANDY HOOK NEW JERSEY
TO MERRIMACK RIVER MASSACHUSETTS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD
INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF
WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL
TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE WARNING ARE PROVIDED BELOW.

MONTAUK-NY	1053	EDT MAR 24	MANHATTAN-NY	1231	EDT MAR 24
NANTUCKET IS-MA	1119	EDT MAR 24	BOSTON-MA	1255	EDT MAR 24

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #3

WEXX20 PAAQ 241405
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 3
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
1005 AM EDT WED MAR 24 2010

...THE TSUNAMI WARNING IS EXPANDED TO INCLUDE THE
COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH
CAROLINA - VIRGINIA - MARYLAND - DELAWARE AND NEW JERSEY
FROM OCEAN REEF FLORIDA TO SANDY HOOK NEW JERSEY...

...A TSUNAMI WARNING CONTINUES FOR THE
COASTAL AREAS OF NEW JERSEY - NEW YORK - CONNECTICUT -
RHODE ISLAND AND MASSACHUSETTS FROM SANDY HOOK NEW JERSEY
TO MERRIMACK RIVER MASSACHUSETTS...

...THE TSUNAMI WARNING IS EXPANDED TO INCLUDE THE
COASTAL AREAS OF MASSACHUSETTS - NEW HAMPSHIRE - MAINE -
NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM MERRIMACK
RIVER MASSACHUSETTS TO LA MANCHE NEWFOUNDLAND...

...THE TSUNAMI WARNING IS EXPANDED TO INCLUDE PUERTO RICO AND
THE VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA
AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE
WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS
IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM
THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED
BY EMERGENCY RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.
- PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE
WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI
AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES -
DEEP-WATER PRESSURE SENSORS INDICATE THAT A TSUNAMI HAS
BEEN GENERATED APPROXIMATELY 120 MILES/200 KM SEAWARD OF
LONG ISLAND NEW YORK.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010

LOCATION - 40.0 NORTH 70.0 WEST
 90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
 170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
 DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS UNDER AN ADVISORY. CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 30 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

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>633-656-658-
 650-652-654-430-431-450>455-FLZ168-172-173-047-054-059-064-
 141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
 051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
 104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
 MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-241505-
 /T.EXA.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
 SANDY HOOK NEW JERSEY
 1005 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE AND NEW JERSEY FROM OCEAN REEF FLORIDA TO SANDY HOOK NEW JERSEY...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE WARNING ARE PROVIDED BELOW.

CAPE HATTERAS-NC	1053	EDT MAR 24	MELBOURNE-FL	1333	EDT MAR 24
ATLANTIC CITY-NJ	1131	EDT MAR 24	JACKSONVILLE B-FL	1341	EDT MAR 24
VIRGINIA BCH-VA	1156	EDT MAR 24	CHARLESTON-SC	1344	EDT MAR 24
MIAMI-FL	1245	EDT MAR 24	SAVANNAH-GA	1356	EDT MAR 24
MYRTLE BCH-SC	1323	EDT MAR 24			

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ330-335-338-350-353-355-230>237-250-254-255-NYZ071>081-
 CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-241505-
 /T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING SANDY HOOK NEW JERSEY
 TO MERRIMACK RIVER MASSACHUSETTS
 1005 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
 COASTAL AREAS OF NEW JERSEY - NEW YORK - CONNECTICUT -
 RHODE ISLAND AND MASSACHUSETTS FROM SANDY HOOK NEW JERSEY
 TO MERRIMACK RIVER MASSACHUSETTS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
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 TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
 SITES IN THE WARNING ARE PROVIDED BELOW.

MONTAUK-NY	1053	EDT MAR 24	MANHATTAN-NY	1231	EDT MAR 24
NANTUCKET IS-MA	1119	EDT MAR 24	BOSTON-MA	1255	EDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE WCATWC.ARH.NOAA.GOV					

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ANZ150-050>052-081-NHZ014-MEZ022>028-029-030-241505-
 /T.EXA.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING MERRIMACK RIVER
 MASSACHUSETTS TO LA MANCHE NEWFOUNDLAND
 1005 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
 COASTAL AREAS OF MASSACHUSETTS - NEW HAMPSHIRE - MAINE -
 NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM MERRIMACK
 RIVER MASSACHUSETTS TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
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 TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
 SITES IN THE WARNING ARE PROVIDED BELOW.

LOCKEPORT-NS	1221	ADT MAR 24	PORTLAND-ME	1242	EDT MAR 24
GRAND MANAN-NB	1330	ADT MAR 24	ST LAWRENCE-NL	1420	NDT MAR 24
SCATARIE IS-NS	1337	ADT MAR 24			
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE WCATWC.ARH.NOAA.GOV					

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
 VIZ001-002-241505-
 /T.EXA.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
 1005 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE

VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

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SAN JUAN-PR 1211 AST MAR 24 CHRISTIANSTED-VI 1225 AST MAR 24
 MAYAGUEZ-PR 1220 AST MAR 24 CHARLOT AMALI-VI 1245 AST MAR 24
 FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
 WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
 555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
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 216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
 004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
 060-062-065-069-070-075-174-076>078-241505-
 /T.NEW.PAAQ.TS.Y.0010.100324T1405Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO
 OCEAN REEF FLORIDA
 1005 AM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
 COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA
 AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE
 WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

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KEY WEST-FL 1327 EDT MAR 24 ST PETERSBURG-FL 1815 EDT MAR 24
 PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
 CORPUS CHRISTI-TX 1606 CDT MAR 24 GALVESTON-TX 1722 CDT MAR 24
 FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
 WCATWC.ARH.NOAA.GOV

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ANZ081-241505-
 /T.NEW.PAAQ.TS.Y.0010.100324T1405Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
 TO CAPE CHIDLEY LABRADOR
 1005 AM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
 COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
 NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE

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BONAVISTA-NL 1627 NDT MAR 24 BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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EXERCICIO

WCATWC Message #4

WEXX20 PAAQ 241435
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 4
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
1035 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.
- PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES - DEEP-WATER PRESSURE SENSORS INDICATE THAT A TSUNAMI HAS BEEN GENERATED APPROXIMATELY 120 MILES/200 KM SEAWARD OF LONG ISLAND NEW YORK. FORECAST MODELS PROJECT TSUNAMIS 3.2-9.6 FEET/1-3 METER ABOVE NORMAL SEA LEVEL WILL IMPACT PORTIONS OF THE EAST COAST... PUERTO RICO AND THE VIRGIN ISLANDS. TSUNAMIS LESS THAN 3.2 FEET/1 METER ABOVE NORMAL SEA LEVEL ARE EXPECTED TO OCCUR IN THE GULF OF MEXICO AND NORTH OF LA MANCHE NEWFOUNDLAND.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE	- 7.5
TIME	- 0900 EDT MAR 24 2010
	0900 AST MAR 24 2010
	0800 CDT MAR 24 2010
	1300 UTC MAR 24 2010
LOCATION	- 40.0 NORTH 70.0 WEST
	90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS

170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
 DEPTH - 28 MILES/45 KM

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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>633-656-658-
 650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
 250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
 141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
 051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
 104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
 MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
 CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
 029-030-241535-
 /T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND
 1035 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

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CAPE HATTERAS-NC	1053	EDT	MAR 24	PORTLAND-ME	1242	EDT	MAR 24
MONTAUK-NY	1053	EDT	MAR 24	MIAMI-FL	1245	EDT	MAR 24
NANTUCKET IS-MA	1119	EDT	MAR 24	ST LAWRENCE-NL	1420	NDT	MAR 24
LOCKEPORT-NS	1221	ADT	MAR 24	BOSTON-MA	1255	EDT	MAR 24
ATLANTIC CITY-NJ	1131	EDT	MAR 24	MYRTLE BCH-SC	1323	EDT	MAR 24
VIRGINIA BCH-VA	1156	EDT	MAR 24	MELBOURNE-FL	1333	EDT	MAR 24

GRAND MANAN-NB 1330 ADT MAR 24 JACKSONVILLE B-FL 1341 EDT MAR 24
MANHATTAN-NY 1231 EDT MAR 24 CHARLESTON-SC 1344 EDT MAR 24
SCATARIE IS-NS 1337 ADT MAR 24 SAVANNAH-GA 1356 EDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-241535-
/T.CON.PAAQ.TS.W.0010.00000T0000Z-00000T0000Z/
1035 AM EDT WED MAR 24 2010

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SITES IN THE WARNING ARE PROVIDED BELOW.

SAN JUAN-PR 1211 AST MAR 24 CHRISTIANSTED-VI 1225 AST MAR 24
MAYAGUEZ-PR 1220 AST MAR 24 CHARLOT AMALI-VI 1245 AST MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
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216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-241535-
/T.CON.PAAQ.TS.Y.0010.00000T0000Z-00000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO
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1035 AM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
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TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

KEY WEST-FL 1327 EDT MAR 24 ST PETERSBURG-FL 1815 EDT MAR 24
PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
CORPUS CHRISTI-TX 1606 CDT MAR 24 GALVESTON-TX 1722 CDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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/T.CON.PAAQ.TS.Y.0010.000000T000Z-000000T000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
1035 AM EDT WED MAR 24 2010

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COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
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TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

BONAVISTA-NL 1627 NDT MAR 24 BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #5

WEXX20 PAAQ 241505
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 5
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
1105 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE AGENCIES.

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THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES

LOCATION	LAT	LON	TIME	AMPL
BERMUDA	32.3 N	64.7 W	1457	5.73 FT/1.79 M DEEP-WATER PRESSURE SENSORS INDICATE THAT A TSUNAMI HAS BEEN GENERATED APPROXIMATELY 120 MILES/200 KM SEAWARD OF LONG ISLAND NEW YORK. FORECAST MODELS PROJECT TSUNAMIS 3.2-9.6 FEET/1-3 METER ABOVE NORMAL SEA LEVEL WILL IMPACT PORTIONS OF THE EAST COAST... PUERTO RICO AND THE VIRGIN ISLANDS. TSUNAMIS LESS THAN 3.2 FEET/1 METER ABOVE NORMAL SEA LEVEL ARE EXPECTED TO OCCUR IN THE GULF OF MEXICO AND NORTH OF LA MANCHE NEWFOUNDLAND. PEAK TSUNAMI LEVELS ARE EXPECTED TO OCCUR ONE TO THREE HOURS AFTER INITIAL ARRIVAL TIME.

TIME - TIME OF MEASUREMENT

AMPL - TSUNAMI AMPLITUDES ARE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
VALUES ARE GIVEN IN BOTH METERS (M) AND FEET (FT) .

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
 TIME - 0900 EDT MAR 24 2010
 0900 AST MAR 24 2010
 0800 CDT MAR 24 2010
 1300 UTC MAR 24 2010
 LOCATION - 40.0 NORTH 70.0 WEST
 90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
 170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
 DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS UNDER AN ADVISORY. CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 30 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

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>633-656-658-
 650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
 250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
 141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
 051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
 104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
 MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
 CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
 029-030-241605-
 /T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
 LA MANCHE NEWFOUNDLAND
 1105 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD

INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE WARNING ARE PROVIDED BELOW.

NANTUCKET IS-MA	1119	EDT MAR 24	PORTLAND-ME	1242	EDT MAR 24
ATLANTIC CITY-NJ	1131	EDT MAR 24	MIAMI-FL	1245	EDT MAR 24
VIRGINIA BCH-VA	1156	EDT MAR 24	ST LAWRENCE-NL	1420	NDT MAR 24
LOCKEPORT-NS	1221	ADT MAR 24	BOSTON-MA	1255	EDT MAR 24
MANHATTAN-NY	1231	EDT MAR 24	MYRTLE BCH-SC	1323	EDT MAR 24
GRAND MANAN-NB	1330	ADT MAR 24	MELBOURNE-FL	1333	EDT MAR 24
SCATARIE IS-NS	1337	ADT MAR 24	JACKSONVILLE B-FL	1341	EDT MAR 24
SAVANNAH-GA	1356	EDT MAR 24	CHARLESTON-SC	1344	EDT MAR 24

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-241605-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
1105 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

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SAN JUAN-PR	1211	AST MAR 24	CHRISTIANSTED-VI	1225	AST MAR 24
MAYAGUEZ-PR	1220	AST MAR 24	CHARLOT AMALI-VI	1245	AST MAR 24

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-241605-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA
1105 AM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR

WATER IS IMMINENT OF EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE ADVISORY ARE PROVIDED BELOW.

KEY WEST-FL 1327 EDT MAR 24 ST PETERSBURG-FL 1815 EDT MAR 24
PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
CORPUS CHRISTI-TX 1606 CDT MAR 24 GALVESTON-TX 1722 CDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ081-241605-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
1105 AM EDT WED MAR 24 2010

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BONAVISTA-NL 1627 NDT MAR 24 BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #6

WEXX20 PAAQ 241535
TSUAT1

BULLETIN

TSUNAMI MESSAGE NUMBER 6
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
1135 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.
- PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES

LOCATION	LAT	LON	TIME	AMPL
BERMUDA	32.3 N	64.7 W	1457	5.73 FT/1.79 M
OREGON INLET NC	35.8 N	75.6 W	1502	8.45 FT/2.64 M
MONTAUK NY	41.0 N	71.9 W	1530	6.27 FT/1.96 M
NEWPORT RI	41.5 N	71.3 W	1515	3.07 FT/0.96 M
OCEAN CITY MD	38.3 N	75.1 W	1521	6.85 FT/2.14 M
DUCK NC	36.2 N	75.7 W	1522	8.26 FT/2.58 M

FORECAST MODELS PROJECT TSUNAMIS 3.2-9.6 FEET/1-3 METER ABOVE NORMAL SEA LEVEL WILL IMPACT PORTIONS OF THE EAST COAST... PUERTO RICO AND THE VIRGIN ISLANDS. TSUNAMIS LESS THAN 3.2 FEET/1 METER ABOVE NORMAL SEA LEVEL ARE EXPECTED TO OCCUR IN THE GULF OF MEXICO AND NORTH OF LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR. MAXIMUM TSUNAMI AMPLITUDES ARE EXPECTED TO DEVELOP 1 TO THREE HOURS AFTER THE EXPECTED ARRIVAL TIME. TSUNAMIS

BETWEEN 3.2-8.0 FEET/1-2.5 METERS ALONG WITH STRONG CURRENTS HAVE BEEN REPORTED IN RHODE ISLAND... NEW YORK... MARYLAND AND NORTH CAROLINA.

TIME - TIME OF MEASUREMENT

AMPL - TSUNAMI AMPLITUDES ARE MEASURED RELATIVE TO NORMAL SEA LEVEL.

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

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

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5

TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010

LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
170 MILES/274 KM SE OF BOSTON MASSACHUSETTS

DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

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252-254-256-130-135-150-152-154-156-158-ANZ631>633-656-658-
650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
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051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-241635-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
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1135 AM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE

NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

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VIRGINIA BCH-VA	1156	EDT MAR 24	PORTLAND-ME	1242	EDT MAR 24
JACKSONVILLE B-FL	1341	EDT MAR 24	MIAMI-FL	1245	EDT MAR 24
MANHATTAN-NY	1231	EDT MAR 24	ST LAWRENCE-NL	1420	NDT MAR 24
GRAND MANAN-NB	1330	ADT MAR 24	BOSTON-MA	1255	EDT MAR 24
SCATARIE IS-NS	1337	ADT MAR 24	MYRTLE BCH-SC	1323	EDT MAR 24
SAVANNAH-GA	1356	EDT MAR 24	MELBOURNE-FL	1333	EDT MAR 24
CHARLESTON-SC	1344	EDT MAR 24			

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-241635-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
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MAYAGUEZ-PR	1220	AST MAR 24	CHARLOT AMALI-VI	1245	AST MAR 24

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
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COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA
1135 AM EDT WED MAR 24 2010

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PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR WATER IS IMMINENT OF EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE ADVISORY ARE PROVIDED BELOW.

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PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
CORPUS CHRISTI-TX 1606 CDT MAR 24 GALVESTON-TX 1722 CDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
1135 AM EDT WED MAR 24 2010

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BONAVISTA-NL 1627 NDT MAR 24 BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #7

WEXX20 PAAQ 241605
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 7
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
1205 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

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RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE AGENCIES.

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THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES

LOCATION	LAT	LON	TIME	AMPL
MONTAUK NY	41.0 N	71.9 W	1530	6.27 FT/1.96 M
NEWPORT RI	41.5 N	71.3 W	1515	3.07 FT/0.96 M
OCEAN CITY MD	38.3 N	75.1 W	1521	6.85 FT/2.14 M
DUCK NC	36.2 N	75.7 W	1522	8.26 FT/2.58 M

FORECAST MODELS PROJECT TSUNAMIS

3.2-9.6 FEET/1-3 METER ABOVE NORMAL SEA LEVEL WILL IMPACT PORTIONS OF THE EAST COAST... PUERTO RICO AND THE VIRGIN ISLANDS. TSUNAMIS LESS THAN 3.2 FEET/1 METER ABOVE NORMAL SEA LEVEL ARE EXPECTED TO OCCUR IN THE GULF OF MEXICO AND NORTH OF LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR. MAXIMUM TSUNAMI AMPLITUDES ARE EXPECTED TO DEVELOP ONE TO THREE HOURS AFTER THE EXPECTED ARRIVAL TIME.

TSUNAMIS BETWEEN 3.2-8.0 FEET/1-2.5 METERS ALONG WITH STRONG CURRENTS HAVE BEEN REPORTED IN RHODE ISLAND... NEW

YORK... MARYLAND AND NORTH CAROLINA. A 9.6-FOOT/3-METER TSUNAMI WAS REPORTED IN ATLANTIC CITY NJ WHICH RESULTED IN NUMEROUS DEATHS AND WIDESPREAD STRUCTURAL DAMAGE.

TIME - TIME OF MEASUREMENT

AMPL - TSUNAMI AMPLITUDES ARE MEASURED RELATIVE TO NORMAL SEA LEVEL.

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

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

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5

TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010

LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
170 MILES/274 KM SE OF BOSTON MASSACHUSETTS

DEPTH - 28 MILES/45 KM

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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>633-656-658-
650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
141-141-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-241705-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
LA MANCHE NEWFOUNDLAND
1205 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE

NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE WARNING ARE PROVIDED BELOW.

MANHATTAN-NY	1231	EDT	MAR 24	PORTLAND-ME	1242	EDT	MAR 24
GRAND MANAN-NB	1330	ADT	MAR 24	MIAMI-FL	1245	EDT	MAR 24
SCATARIE IS-NS	1337	ADT	MAR 24	BOSTON-MA	1255	EDT	MAR 24
SAVANNAH-GA	1356	EDT	MAR 24	MYRTLE BCH-SC	1323	EDT	MAR 24
CHARLESTON-SC	1344	EDT	MAR 24	MELBOURNE-FL	1333	EDT	MAR 24
JACKSONVILLE B-FL	1341	EDT	MAR 24				

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-241705-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
1205 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

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SAN JUAN-PR	1211	AST	MAR 24	CHRISTIANSTED-VI	1225	AST	MAR 24
MAYAGUEZ-PR	1220	AST	MAR 24	CHARLOT AMALI-VI	1245	AST	MAR 24

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-241705-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA
1205 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE

WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR WATER IS IMMINENT OF EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE ADVISORY ARE PROVIDED BELOW.

KEY WEST-FL 1327 EDT MAR 24 ST PETERSBURG-FL 1815 EDT MAR 24
PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
CORPUS CHRISTI-TX 1606 CDT MAR 24 GALVESTON-TX 1722 CDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ081-241705-
/T.CON.PAAQ.TS.Y.0010.000000T000Z-000000T000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
1205 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

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BONAVISTA-NL 1627 NDT MAR 24 BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #8

WEXX20 PAAQ 241635
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 8
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
1235 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.
- PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES

LOCATION	LAT	LON	TIME	AMPL
NEWPORT RI	41.5 N	71.3 W	1540	3.68 FT/1.15 M
AGUADILLA PR	18.4 N	67.1 W	1622	23.94 FT/7.48 M

FORECAST MODELS PROJECT TSUNAMIS 3.2-9.6 FEET/1-3 METER ABOVE NORMAL SEA LEVEL WILL IMPACT PORTIONS OF THE EAST COAST... PUERTO RICO AND THE VIRGIN ISLANDS. TSUNAMIS LESS THAN 3.2 FEET/1 METER ABOVE NORMAL SEA LEVEL ARE EXPECTED TO OCCUR IN THE GULF OF MEXICO AND NORTH OF LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR. MAXIMUM TSUNAMI AMPLITUDES ARE EXPECTED TO DEVELOP ONE TO THREE HOURS AFTER THE EXPECTED ARRIVAL TIME. TSUNAMIS BETWEEN 3.2-8.0 FEET/1-2.5 METERS ALONG WITH STRONG CURRENTS HAVE BEEN REPORTED IN RHODE ISLAND... NEW YORK... MARYLAND AND NORTH CAROLINA. A 24.0 FOOT/7.5-METER TSUNAMI WAS REPORTED IN AGUADILLA PR WHICH RESULTED IN INUNDATION

FOR ONE MILE/1.6 KM INLAND AND NUMEROUS DEATHS.

TIME - TIME OF MEASUREMENT

AMPL - TSUNAMI AMPLITUDES ARE MEASURED RELATIVE TO NORMAL SEA LEVEL.

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

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

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5

TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010

LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
170 MILES/274 KM SE OF BOSTON MASSACHUSETTS

DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS UNDER AN ADVISORY. CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

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252-254-256-130-135-150-152-154-156-158-ANZ631>633-656-658-
650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
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141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-241735-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
LA MANCHE NEWFOUNDLAND
1235 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

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SCATARIE IS-NS	1337	ADT MAR 24	PORTLAND-ME	1242	EDT MAR 24
SAVANNAH-GA	1356	EDT MAR 24	MIAMI-FL	1245	EDT MAR 24
CHARLESTON-SC	1344	EDT MAR 24	BOSTON-MA	1255	EDT MAR 24
JACKSONVILLE B-FL	1341	EDT MAR 24	MYRTLE BCH-SC	1323	EDT MAR 24
MELBOURNE-FL	1333	EDT MAR 24			

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-241735-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
1235 PM EDT WED MAR 24 2010

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CHARLOT AMALI-VI 1245 AST MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-241735-
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COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA
1235 PM EDT WED MAR 24 2010

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PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
CORPUS CHRISTI-TX 1606 CDT MAR 24 GALVESTON-TX 1722 CDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ081-241735-

/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
1235 PM EDT WED MAR 24 2010

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BONAVISTA-NL 1627 NDT MAR 24 BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #9

WEXX20 PAAQ 241705
TSUAT1

BULLETIN

TSUNAMI MESSAGE NUMBER 9
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
105 PM EDT WED MAR 24 2010

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RECOMMENDED ACTIONS

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THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES

LOCATION	LAT	LON	TIME	AMPL
AGUADILLA PR	18.4 N	67.1 W	1622	23.94 FT/7.48 M
SAN JUAN PR	18.5 N	66.6 W	1627	4.83 FT/1.51 M
VIRGIN GORDA BVII	18.5 N	64.5 W	1629	6.66 FT/2.08 M
MAYAGUEZ PR	18.2 N	67.1 W	1636	6.75 FT/2.11 M
CHRISTIANSTED VII	17.7 N	64.8 W	1645	3.17 FT/0.99 M

TSUNAMIS ALONG THE EAST COAST HAVE REDUCED TO APPROX 3.2 FEET/1 METER ABOVE NORMAL SEA LEVEL IN MOST LOCATIONS. 6.4-FOOT/2-METER TSUNAMIS HAVE BEEN REPORTED ALONG THE NORTHERN SHORES OF PUERTO RICO AND THE VIRGIN ISLANDS CAUSING SIGNIFICANT LEVELS OF DAMAGE ALONG THE COAST. 1.9-FOOT/0.6-METER TSUNAMIS WERE OBSERVED IN BONITA BEACH FL AND 1.3-FOOT/0.4-METER IN SUWANNEE RIVER FL.

TIME - TIME OF MEASUREMENT

AMPL - TSUNAMI AMPLITUDES ARE MEASURED RELATIVE TO NORMAL SEA LEVEL.
 IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
 VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT) .

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
 TIME - 0900 EDT MAR 24 2010
 0900 AST MAR 24 2010
 0800 CDT MAR 24 2010
 1300 UTC MAR 24 2010
 LOCATION - 40.0 NORTH 70.0 WEST
 90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
 170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
 DEPTH - 28 MILES/45 KM

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 MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
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 COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND
 105 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE WARNING ARE PROVIDED BELOW.

SAVANNAH-GA	1356	EDT MAR 24	MELBOURNE-FL	1333	EDT MAR 24
CHARLESTON-SC	1344	EDT MAR 24	MYRTLE BCH-SC	1323	EDT MAR 24
JACKSONVILLE B-FL	1341	EDT MAR			

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-241805-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
105 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-241805-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA
105 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE ADVISORY ARE PROVIDED BELOW.

KEY WEST-FL 1327 EDT MAR 24 ST PETERSBURG-FL 1815 EDT MAR 24

PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
CORPUS CHRISTI-TX 1606 CDT MAR 24 GALVESTON-TX 1722 CDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ081-241805-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
105 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

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WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING
STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR
WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION
IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF
WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL
TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

BONAVISTA-NL 1627 NDT MAR 24 BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #10

WEXX20 PAAQ 241735
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 10
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
135 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.
- PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES

LOCATION	LAT	LON	TIME	AMPL
MAYAGUEZ PR	18.2 N	67.1 W	1636	6.75 FT/2.11 M
CHRISTIANSTED VI	17.7 N	64.8 W	1709	3.97 FT/1.24 M
PORT CANAVERAL FL	28.4 N	80.6 W	1700	4.61 FT/1.44 M
SPRINGMAID SC	33.7 N	78.9 W	1718	4.80 FT/1.50 M
TSUNAMIS ALONG THE EAST COAST HAVE REDUCED TO APPROX 3.2 FEET/1 METER IN MOST LOCATIONS. 6.4-FOOT/2-METER WAVES HAVE BEEN OBSERVED THROUGHOUT THE NORTHERN COASTS OF PUERTO RICO AND THE VIRGIN ISLANDS AND ARE CONTINUING TO CAUSE DAMAGE. SEVERAL EAST COAST LOCATIONS SUCH AS BAR HARBOR MAINE AND ATLANTIC CITY NEW JERSEY REPORT ONGOING DAMAGE FROM WAVES. TWO SWIMMERS MELBOURNE FLORIDA WERE REPORTED DROWNED.				

TIME - TIME OF MEASUREMENT

AMPL - TSUNAMI AMPLITUDES ARE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
VALUES ARE GIVEN IN BOTH METERS (M) AND FEET (FT) .

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
 TIME - 0900 EDT MAR 24 2010
 0900 AST MAR 24 2010
 0800 CDT MAR 24 2010
 1300 UTC MAR 24 2010
 LOCATION - 40.0 NORTH 70.0 WEST
 90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
 170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
 DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS UNDER AN ADVISORY. CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 30 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

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>633-656-658-
 650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
 250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
 141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
 051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
 104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
 MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
 CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
 029-030-241835-
 /T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
 LA MANCHE NEWFOUNDLAND
 135 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD

INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED SITES IN THE WARNING ARE PROVIDED BELOW.

SAVANNAH-GA 1356 EDT MAR 24 JACKSONVILLE B-FL 1341 EDT MAR 24
 CHARLESTON-SC 1344 EDT MAR 24
 FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
 WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
 VIZ001-002-241835-
 /T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
 135 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

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FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
 WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
 555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
 032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
 216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
 004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
 060-062-065-069-070-075-174-076>078-241835-
 /T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA
 135 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

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GALVESTON-TX	1722	CDT MAR 24	ST PETERSBURG-FL	1815	EDT MAR 24
PANAMA CITY-FL	1522	CDT MAR 24	BILOXI-MS	1719	CDT MAR 24
CORPUS CHRISTI-TX	1606	CDT MAR 24			

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ081-241835-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
135 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
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TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

BONAVISTA-NL 1627 NDT MAR 24 BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #11

WEXX20 PAAQ 241805
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 11
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
205 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH
CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY -
NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW
HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND
NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE
NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA
AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

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COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE
WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS
IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM
THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED
BY EMERGENCY RESPONSE AGENCIES.

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THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI
AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

A TSUNAMI HAS BEEN OBSERVED AT THE FOLLOWING SITES

LOCATION	LAT	LON	TIME	AMPL
CHRISTIANSTED VI	17.7 N	64.8 W	1709	3.97 FT/1.24 M
SPRINGMAID SC	33.7 N	78.9 W	1718	4.80 FT/1.50 M
FLAGLER BEACH FL	29.5 N	81.1 W	1739	6.88 FT/2.15 M
1.9-FOOT/0.6-METER WAVES WERE REPORTED IN BONITA BEACH FL AND 1.3-FOOT/0.4-METER IN SUWANNEE RIVER FL. MINOR BOAT DAMAGE HAS BEEN REPORTED DUE TO TSUNAMI CURRENTS IN THE EASTERN GULF OF MEXICO. SEVERAL HARBORS IN MAINE HAVE REPORTED SIGNIFICANT DAMAGE DUE TO STRONG CURRENTS AND LOW LEVELS OF INUNDATION.				

TIME - TIME OF MEASUREMENT

AMPL - TSUNAMI AMPLITUDES ARE MEASURED RELATIVE TO NORMAL SEA LEVEL.

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

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

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
 TIME - 0900 EDT MAR 24 2010
 0900 AST MAR 24 2010
 0800 CDT MAR 24 2010
 1300 UTC MAR 24 2010
 LOCATION - 40.0 NORTH 70.0 WEST
 90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
 170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
 DEPTH - 28 MILES/45 KM

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TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

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THIS MESSAGE WILL BE UPDATED IN 60 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

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>633-656-658-
 650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
 250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
 141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
 051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
 104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
 MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
 CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
 029-030-241905-
 /T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
 LA MANCHE NEWFOUNDLAND
 205 PM EDT WED MAR 24 2010

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TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-241905-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
205 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
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WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-241905-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO
OCEAN REEF FLORIDA
205 PM EDT WED MAR 24 2010

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TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

GALVESTON-TX	1722	CDT MAR 24	ST PETERSBURG-FL	1815	EDT MAR 24
PANAMA CITY-FL	1522	CDT MAR 24	BILOXI-MS	1719	CDT MAR 24
CORPUS CHRISTI-TX	1606	CDT MAR 24			

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ081-241905-

/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
205 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE
WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING
STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR
WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION
IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF
WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL
TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

BATTLE HARBOR-NL 1659 NDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #12

WEXX20 PAAQ 241905
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 12
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
305 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH
CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY -
NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW
HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND
NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE
NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA
AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE
WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS
IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM
THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED
BY EMERGENCY RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.
- PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI
AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

TSUNAMI AMPLITUDES HAVE DROPPED TO 3.2-4.8 FOOT/1-1.5 METER
THROUGHOUT PUERTO RICO AND VIRGIN ISLANDS WITH DANGEROUS COASTAL
CONDITIONS PERSISTING. TSUNAMI OBSERVATIONS IN
THE EASTERN GULF OF MEXICO HAVE DECREASED TO LESS THAN 1.6
FEET/0.5 METERS. BOAT HARBORS THROUGHOUT THE SOUTHEAST COAST
OF NOVA SCOTIA HAVE EXPERIENCED SIGNIFICANT DESTRUCTION.
CITIES WHERE TSUNAMIS EXCEEDING 3.2 FEET/1.0 METER
ARE STILL BEING OBSERVED INCLUDE ATLANTIC CITY NJ... BAR HARBOR
ME AND OCEAN CITY MD.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010
LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS

170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
 DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS UNDER AN ADVISORY. CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 60 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

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>633-656-658-
 650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
 250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
 141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
 051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
 104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
 MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
 CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
 029-030-242005-
 /T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
 LA MANCHE NEWFOUNDLAND
 305 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
 VIZ001-002-242005-

/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
305 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD
INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF
WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL
TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-242005-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO
OCEAN REEF FLORIDA
305 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA
AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE
WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING
STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR
WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION
IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF
WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL
TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

GALVESTON-TX 1722 CDT MAR 24 ST PETERSBURG-FL 1815 EDT MAR 24
PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
CORPUS CHRISTI-TX 1606 CDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ081-242005-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
305 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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EXERCICIO

WCATWC Message #13

WEXX20 PAAQ 242005
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 13
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
405 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE WARNING AND/OR ADVISORY REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.
- PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

TSUNAMI AMPLITUDES HAVE DECREASED TO 3.2-4.8 FOOT/1-1.5 METER THROUGHOUT PUERTO RICO AND VIRGIN ISLANDS THOUGH ARE STILL DANGEROUS. NON-DAMAGING 1.0-FOOT/0.3-METER TSUNAMI WERE OBSERVED ALONG THE LABRADOR COAST. TSUNAMIS ALONG THE EAST COAST HAVE DIMINISHED THOUGH STRONG CURRENTS STILL EXIST. CITIES WHERE TSUNAMIS EXCEEDING 3.2 FOOT/1.0 METER ARE STILL BEING OBSERVED INCLUDE ATLANTIC CITY NJ... MONTAUK NY AND OCEAN CITY MD. STRONG CURRENTS HAVE OCCURED AT A FEW LOCATIONS THROUGHOUT THE GULF OF MEXICO CAUSING DAMAGE TO HARBORS AND MARINAS.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE	- 7.5
TIME	- 0900 EDT MAR 24 2010
	0900 AST MAR 24 2010
	0800 CDT MAR 24 2010
	1300 UTC MAR 24 2010

LOCATION - 40.0 NORTH 70.0 WEST
 90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
 170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
 DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION IS NOT EXPECTED FOR AREAS UNDER AN ADVISORY. CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 60 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

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>633-656-658-
 650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
 250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
 141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
 051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
 104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
 MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
 CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
 029-030-242105-
 /T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
 COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
 LA MANCHE NEWFOUNDLAND
 405 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-242105-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
405 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD
INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF
WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL
TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-242105-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO
OCEAN REEF FLORIDA
405 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA
AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE
WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING
STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR
WATER IS IMMINENT OR EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION
IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF
WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL
TIME. ESTIMATED TIMES OF INITIAL WAVE ARRIVAL FOR SELECTED
SITES IN THE ADVISORY ARE PROVIDED BELOW.

GALVESTON-TX 1722 CDT MAR 24 ST PETERSBURG-FL 1815 EDT MAR 24
PANAMA CITY-FL 1522 CDT MAR 24 BILOXI-MS 1719 CDT MAR 24
CORPUS CHRISTI-TX 1606 CDT MAR 24
FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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ANZ081-242105-
/T.CON.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND
TO CAPE CHIDLEY LABRADOR
405 PM EDT WED MAR 24 2010

...A TSUNAMI ADVISORY IS IN EFFECT WHICH INCLUDES THE

COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE
NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

PERSONS IN TSUNAMI ADVISORY AREAS SHOULD MOVE OUT OF THE
WATER... OFF THE BEACH AND OUT OF HARBORS AND MARINAS.

TSUNAMI ADVISORIES MEAN THAT A TSUNAMI CAPABLE OF PRODUCING
STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR
WATER IS IMMINENT OF EXPECTED. SIGNIFICANT WIDESPREAD INUNDATION
IS NOT EXPECTED FOR AREAS IN AN ADVISORY. TSUNAMIS ARE A SERIES OF
WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL
TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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EXERCICIO

WCATWC Message #14

WEXX20 PAAQ 242105
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 14
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
505 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH
CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY -
NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW
HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND
NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE
NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

...THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS
OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA
FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS
OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO
CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE
WARNING REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING
COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL
EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY
RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI
AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

TSUNAMI AMPLITUDES CONTINUE AT 3.2-4.8 FOOT/1-1.5 METER
THROUGHOUT NORTHERN PUERTO RICO AND VIRGIN ISLANDS AND ARE
STILL DANGEROUS. TSUNAMI OBSERVATIONS IN THE GULF
OF MEXICO HAVE DECREASED TO LESS THAN 1.6 FEET/0.5 METERS.
1.0-FOOT/0.3-METER WAVES HAVE BEEN REPORTED AT
CAPE CHIDLEY LABRADOR. WAVES ALONG THE EAST COAST
HAVE DIMINISHED THOUGH STRONG CURRENTS STILL
EXIST. CITIES WHERE TSUNAMIS EXCEED 3.2 FOOT/1.0 METER
ARE STILL BEING OBSERVED INCLUDE ATLANTIC CITY NJ... FLAGLER FL
AND OCEAN CITY MD.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE	- 7.5
TIME	- 0900 EDT MAR 24 2010 0900 AST MAR 24 2010 0800 CDT MAR 24 2010 1300 UTC MAR 24 2010
LOCATION	- 40.0 NORTH 70.0 WEST 90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS 170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
DEPTH	- 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 60 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

GMZ130-150-155-235-230-250-255-330-335-350-355-455-452-450-
555-550-630-655-650-750-755-765-730-830-856-853-850-657-656-
032-075-052>054-TXZ251-256-257-242>247-213-214-236>238-215-
216-LAZ051>054-040-062-064-066>070-MSZ080>082-ALZ061>064-FLZ002-
004-006-008-012-014-015-018-027-028-034-039-042-048>051-055-
060-062-065-069-070-075-174-076>078-242205-
/T.CAN.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING BROWNSVILLE TEXAS TO
OCEAN REEF FLORIDA
505 PM EDT WED MAR 24 2010

...THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS OF TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

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ANZ081-242205-
/T.CAN.PAAQ.TS.Y.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR
505 PM EDT WED MAR 24 2010

...THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS OF NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO CAPE CHIDLEY LABRADOR...

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AMZ630-650-651-550-555-450-452-454-330-350-352-354-250-
252-254-256-130-135-150-152-154-156-158-ANZ631>633-656-658-
650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-242205-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
LA MANCHE NEWFOUNDLAND
505 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY -

NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-242205-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
505 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #15

WEXX20 PAAQ 242205
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 15
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
605 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH
CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY -
NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW
HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND
NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE
NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM
BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO
CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE
WARNING REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING
COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL
EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY
RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI
AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

TSUNAMI LEVELS HAVE DECREASED TO 1.0-3.2 FOOT/0.3-1.0 METER
THROUGHOUT MOST OF PUERTO RICO AND VIRGIN ISLANDS. TSUNAMI
OBSERVATIONS IN THE GULF OF MEXICO AND NORTH OF LA MANCHE
NEWFOUNDLAND CONTINUE TO BE LESS THAN 1.3FEET/0.4 METERS.
TSUNAMIS ALONG THE EAST COAST HAVE DIMINISHED THOUGH STRONG
CURRENTS STILL EXIST. LARGE LEVELS OF DAMAGE HAVE BEEN REPORTED
FROM PORTIONS OF THE FLORIDA COAST. SEVERAL SWIMMERS ARE REPORTED
MISSING.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010
LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL

ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 60 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

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>633-656-658-
650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-242305-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
LA MANCHE NEWFOUNDLAND
605 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-242305-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
605 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD

INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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EXERCICIO

WCATWC Message #16

WEXX20 PAAQ 242305
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 16
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
705 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH
CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY -
NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW
HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND
NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE
NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM
BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO
CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE
WARNING REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING
COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL
EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY
RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI
AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

TSUNAMI AMPLITUDES HAVE DROPPED TO 1.0-3.2 FOOT/0.3-1.0 METER
THROUGHOUT PUERTO RICO AND VIRGIN ISLANDS. TSUNAMIS ALONG
THE EAST COAST HAVE DIMINISHED THOUGH STRONG
CURRENTS STILL EXIST. REPORTS OF MAJOR DAMAGE TO MANY BOAT
HARBORS ALONG THE U.S. ATLANTIC COAST AND S.E. CANADIAN COAST
HAVE BEEN REPORTED.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE	- 7.5
TIME	- 0900 EDT MAR 24 2010 0900 AST MAR 24 2010 0800 CDT MAR 24 2010 1300 UTC MAR 24 2010
LOCATION	- 40.0 NORTH 70.0 WEST 90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS 170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
DEPTH	- 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL
ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO

AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 60 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

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>633-656-658-
650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-250005-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
LA MANCHE NEWFOUNDLAND
705 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-250005-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
705 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF

WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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EJERCICIO

WCATWC Message #17

WEXX20 PAAQ 250005
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 17
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
805 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH
CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY -
NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW
HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND
NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE
NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM
BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO
CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE
WARNING REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING
COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL
EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY
RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI
AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

TSUNAMI AMPLITUDES ALONG THE PUERTO RICO AND VIRGIN ISLAND
COASTS HAVE DECREASED TO 1.0-1.6 FOOT/0.3-0.5
METER THOUGH SOME LOCATIONS SUCH AS AGUADILLA
CONTINUE TO OBSERVE TSUNAMIS EXCEEDING 3.2 FOOT/1.0 METER.
1.0-3.2 FOOT/0.3-1.0 METER WAVES CONTINUE AT A FEW U.S.
ATLANTIC COAST LOCATIONS SUCH AS ATLANTIC CITY NJ... BAR HARBOR
ME... OCEAN CITY MD AND FLAGLER BEACH FL.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010
LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL
ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO

AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 60 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

AMZ630-650-651-550-552-555-450-452-454-330-350-352-354-250-
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650-652-654-430-431-450>455-330-335-338-350-353-355-230>237-
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104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-250105-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
LA MANCHE NEWFOUNDLAND
805 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-250105-
/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
805 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF

WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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EJERCICIO

WCATWC Message #18

WEXX20 PAAQ 250105
TSUAT1

BULLETIN
TSUNAMI MESSAGE NUMBER 18
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
905 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE
COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH
CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY -
NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW
HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND
NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE
NEWFOUNDLAND...

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
TEXAS - LOUISIANA - MISSISSIPPI - ALABAMA AND FLORIDA FROM
BROWNSVILLE TEXAS TO OCEAN REEF FLORIDA...

...THIS MESSAGE IS INFORMATION ONLY FOR COASTAL AREAS OF
NEWFOUNDLAND AND LABRADOR FROM LA MANCHE NEWFOUNDLAND TO
CAPE CHIDLEY LABRADOR...

RECOMMENDED ACTIONS

A TSUNAMI HAS BEEN GENERATED WHICH COULD CAUSE DAMAGE TO THE
WARNING REGIONS LISTED IN THE HEADLINE. PERSONS IN LOW-LYING
COASTAL AREAS SHOULD BE ALERT TO INSTRUCTIONS FROM THEIR LOCAL
EMERGENCY OFFICIALS. EVACUATIONS ARE ONLY ORDERED BY EMERGENCY
RESPONSE AGENCIES.

- PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO
HIGHER GROUND.

THIS MESSAGE IS BASED ON EARTHQUAKE DATA... OBSERVED TSUNAMI
AMPLITUDES... HISTORICAL INFORMATION AND FORECAST MODELS.

TSUNAMI AMPLITUDES THROUGHOUT THE U.S./CANADIAN COAST CONTINUE TO
DECREASE THOUGH MUST STILL BE CONSIDERED VERY DANGEROUS. DANGEROUS
CONDITIONS PERSIST FOR THOSE IN OR VERY NEAR THE WATER.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE - 7.5
TIME - 0900 EDT MAR 24 2010
0900 AST MAR 24 2010
0800 CDT MAR 24 2010
1300 UTC MAR 24 2010
LOCATION - 40.0 NORTH 70.0 WEST
90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
DEPTH - 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL
ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO
AND THE VIRGIN ISLANDS.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD
INUNDATION IS IMMINENT OR EXPECTED. WARNINGS INDICATE THAT

WIDESPREAD DANGEROUS COASTAL FLOODING ACCCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR SEVERAL HOURS AFTER THE INITIAL WAVE ARRIVAL.

THIS MESSAGE WILL BE UPDATED IN 60 MINUTES OR SOONER IF THE SITUATION WARRANTS. THE TSUNAMI MESSAGE WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

AMZ630-650-651-550-552-555-450-452-454-330-350-352-354-250-
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250-254-255-150-050>052-081-FLZ168-172-173-047-054-059-064-
141-147-024-025-033-038-GAZ154-166-117-119-139-141-SCZ048>050-
051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-
CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-250205-/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
LA MANCHE NEWFOUNDLAND
905 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT WHICH INCLUDES THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-250205-/T.CON.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
905 PM EDT WED MAR 24 2010

...A TSUNAMI WARNING IS IN EFFECT FOR PUERTO RICO AND THE VIRGIN ISLANDS...

PERSONS IN TSUNAMI WARNING COASTAL AREAS SHOULD MOVE INLAND TO HIGHER GROUND.

TSUNAMI WARNINGS MEAN THAT A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION IS IMMINENT OR EXPECTED. TSUNAMIS ARE A SERIES OF WAVES POTENTIALLY DANGEROUS SEVERAL HOURS AFTER INITIAL ARRIVAL TIME.

FOR ARRIVAL TIMES AT ADDITIONAL LOCATIONS SEE
WCATWC.ARH.NOAA.GOV

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WCATWC Message #19

WEXX20 PAAQ 250205
TSUAT1

BULLETIN

TSUNAMI MESSAGE NUMBER 19
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
1005 PM EDT WED MAR 24 2010

...THE TSUNAMI WARNING IS CANCELED FOR THE COASTAL AREAS OF FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA - VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK - CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE - MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

...THE TSUNAMI WARNING IS CANCELED FOR PUERTO RICO AND THE VIRGIN ISLANDS...

EVALUATION

DAMAGING TSUNAMIS ARE NO LONGER EXPECTED ALONG THE ATLANTIC COASTS OF THE U.S. AND CANADA. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATIONS MUST BE MADE BY LOCAL AUTHORITIES.

TSUNAMI AMPLITUDES HAVE DROPPED BELOW DANGEROUS LEVELS AT MOST LOCATIONS ALONG THE U.S. AND CANADIAN ATLANTIC COAST. SEA LEVEL CONDITIONS STILL VARY GREATLY FROM LOCATION TO LOCATION ALONG THE COAST. DECISIONS RELATING TO REOCCUPATION OF COASTAL ZONES MUST BE MADE BY LOCAL AUTHORITIES.

ALL WAVE ACTIVITY THROUGHOUT THE WARNING AREA HAS BEEN REPORTED AS BEING LESS THAN 1 FOOT/0.3 METERS IN HEIGHT.

PRELIMINARY EARTHQUAKE PARAMETERS

MAGNITUDE	- 7.5
TIME	- 0900 EDT MAR 24 2010
	0900 AST MAR 24 2010
	0800 CDT MAR 24 2010
	1300 UTC MAR 24 2010
LOCATION	- 40.0 NORTH 70.0 WEST
	90 MILES/145 KM S OF NANTUCKET MASSACHUSETTS
	170 MILES/274 KM SE OF BOSTON MASSACHUSETTS
DEPTH	- 28 MILES/45 KM

THE PACIFIC TSUNAMI WARNING CENTER IN EWA BEACH HAWAII WILL ISSUE MESSAGES FOR AREAS IN THE CARIBBEAN OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS.

THIS WILL BE THE LAST WEST COAST/ALASKA TSUNAMI WARNING CENTER MESSAGE ISSUED FOR THIS EVENT.
THIS INFORMATION IS ALSO POSTED AT WCATWC.ARH.NOAA.GOV.

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>633-656-658-
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051-034-046-NCZ097-100-101-045>047-080-081-094-095-098-103-
104-015>017-030>032-102-VAZ084-086-091-094-095-098-099-100-
MDZ025-DEZ002>004-NJZ005-006-011>014-021-023>026-NYZ071>081-

CTZ009>012-RIZ002-005>007-MAZ007-019>024-016-NHZ014-MEZ022>028-
029-030-250305-
/T.CAN.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS BETWEEN AND INCLUDING OCEAN REEF FLORIDA TO
LA MANCHE NEWFOUNDLAND
1005 PM EDT WED MAR 24 2010

...THE TSUNAMI WARNING IS CANCELED FOR THE COASTAL AREAS OF
FLORIDA - GEORGIA - SOUTH CAROLINA - NORTH CAROLINA -
VIRGINIA - MARYLAND - DELAWARE - NEW JERSEY - NEW YORK -
CONNECTICUT - RHODE ISLAND - MASSACHUSETTS - NEW HAMPSHIRE
- MAINE - NEW BRUNSWICK - NOVA SCOTIA AND NEWFOUNDLAND FROM
OCEAN REEF FLORIDA TO LA MANCHE NEWFOUNDLAND...

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AMZ712-715-725-735-742-745-PRZ001>003-005-007-008-010-011-
VIZ001-002-250305-
/T.CAN.PAAQ.TS.W.0010.000000T0000Z-000000T0000Z/
COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.
1005 PM EDT WED MAR 24 2010

...THE TSUNAMI WARNING IS CANCELED FOR PUERTO RICO AND THE
VIRGIN ISLANDS...

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Anejo E. Productos en Línea

Durante un evento, el WCATWC anuncia en su sitio de internet sus productos gráficos y en línea. Este anejo contiene algunos ejemplos de los mismos. El primero de éstos es el mensaje de texto en formato html con enlaces en línea incluidos.

A: EUA, el área de Canadá en el Atlántico y las regiones costeras del Golfo de México

De: [NOAA/NWS/Centro de Alerta de Tsunami de la Costa Oeste y Alaska](#)

Asunto: [Aviso de Tsunami \(maremoto\) # 1 emitido el 03/24/2010 a las 9:05 AM EDT](#)

Un **Aviso de Tsunami** entra en vigor para las áreas costeras de New Jersey, New York, Connecticut, Rhode Island y Massachusetts desde Sandy Hook, New Jersey al Río Merrimack, Massachusetts.

Este es un mensaje de **Información Solamente** para las áreas costeras de Texas, Louisiana, Mississippi, Alabama, Florida, Georgia, Carolina del Sur, Carolina del Norte, Virginia, Maryland, Delaware y New Jersey, desde Brownsville, Texas a Sandy Hook, New Jersey.

Este es un mensaje de **Información Solamente** para las áreas costeras de Massachusetts, New Hampshire, Maine, New Brunswick, Nova Scotia, Terranova, y Labrador desde el Río Merrimack, Massachusetts hasta Cape Chidley, Labrador.

Este es un mensaje de **Información Solamente** para las áreas costeras de Puerto Rico e Islas Vírgenes.

Un **Aviso de Tsunami** significa que todos los residentes de la costa en el **área de aviso**, que están cerca de la playa o en las regiones bajas deben moverse inmediatamente a áreas altas y lejos de los puertos e isletas, inclusive aquellos lugares protegidos directamente del mar. Quiénes sientan el temblor de tierra, vean oleajes inusuales y/o aumento o disminución del nivel del agua, podrían tener sólo **pocos minutos antes de la llegada del tsunami** y deben alejarse inmediatamente del mar. Las residencias y edificios pequeños no están diseñados para resistir el impacto de un tsunami. No permanezca en estas estructuras.

Todos los residentes dentro del área bajo aviso deben permanecer alerta a la información e instrucciones emitidas por las autoridades civiles locales. Este aviso está basado solamente en información de terremoto - todavía no se ha confirmado el tsunami.

A las 9:00 AM en Horario Estándar del Atlántico del 24 de marzo, un **terremoto** de magnitud preliminar 7.5 **ocurrió a 90 millas/145 km al sur de Nantucket, Massachusetts**. (Refiérase al **Servicio Geológico de los Estados Unidos** o la **Red Sísmica de Puerto Rico** para los parámetros oficiales del terremoto). Este terremoto **podría haber** generado un tsunami. Si se ha generado un tsunami, las olas llegarían primero a Cape Hatteras, Carolina del Norte a las 10:53 AM EDT del 24 de marzo. Los **mapas y las horas estimadas** de llegada del tsunami, junto con las **reglas de seguridad** e **información adicional** pueden conseguirse en el sitio de internet del **WCATWC**.

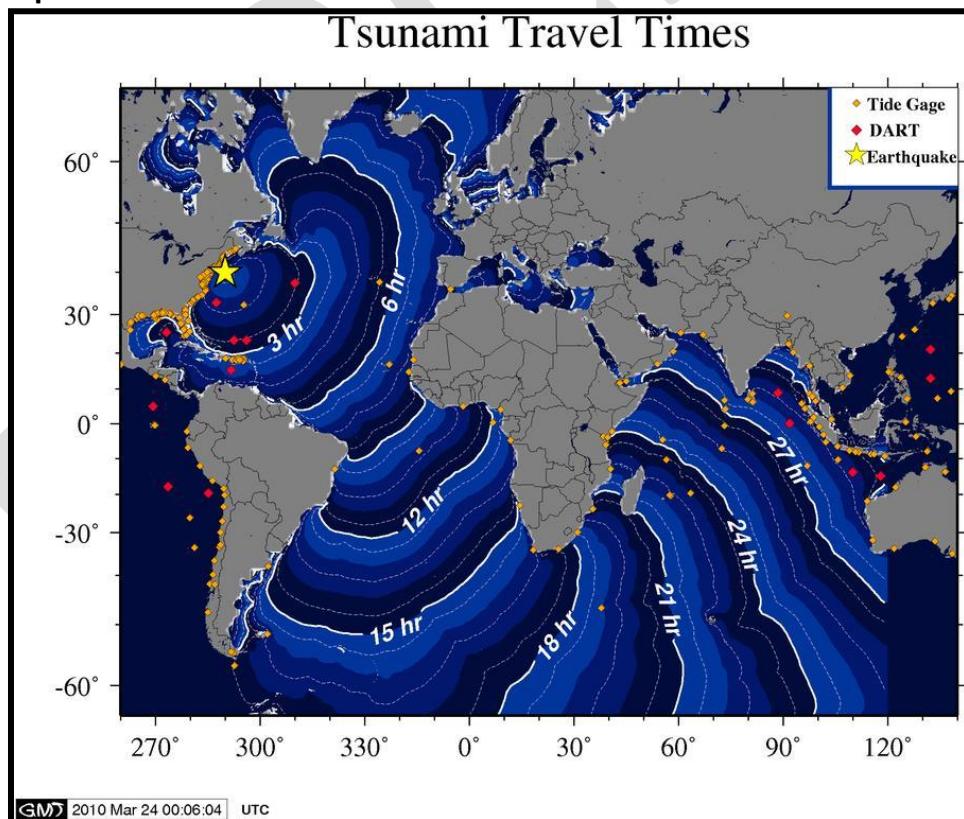
Los tsunamis pueden ser olas peligrosas mortales. La altura de las olas son amplificadas por orillas irregulares y son difíciles de pronosticar. Frecuentemente los tsunamis parecen ser fuertes oleajes y podrían ser precedidos por una disminución del nivel del mar. Los marineros en aguas de 613 pies/187 metros o más no deberían verse afectados por un tsunami. La altura de las olas aumentará rápidamente al acercarse a áreas poco profundas. Los tsunamis son una serie de olas en el océano que podrían ser peligrosas por varias horas después de la llegada de la primera ola. **NO** regrese a las áreas desalojadas hasta que las autoridades civiles locales anuncien el final del peligro y que es seguro.

El Centro de Alerta de Tsunami del Pacífico en la playa Ewa en Hawaii emitirá mensajes para las áreas del Caribe aparte de Puerto Rico y las Islas Vírgenes.

Este mensaje será actualizado en o antes de 30 minutos si la situación lo amerita. El mensaje de tsunami permanecerá en efecto hasta nuevo aviso. Para más información manténgase sintonizado al Radio del Tiempo NOAA, estaciones de radio o de televisión local, o vea el sitio de internet de WCATWC.

- [Enlace para Mensaje de Aviso Estándar](#)
- [Enlace para Mensaje de Aviso Público](#)
- [Enlace para Mensaje XML/CAP](#)
- [Enlace para mensaje imprimible](#)

Mapa con tiempos de recorrido de tsunami:



Ejemplo de la lista del tiempo de recorrido de un tsunami.

The following list gives estimated times of arrival for locations along the U.S. and Canadian Atlantic coast from a tsunami generated at the given source location. The list is ordered chronologically. Since tsunami speed is directly related to water depth, tsunami ETAs can be computed independent of tsunami amplitude. THE LISTING OF A TSUNAMI ARRIVAL TIME BELOW DOES NOT INDICATE A WAVE IS IMMINENT. The listed arrival time is the initial wave arrival. Tsunamis can be dangerous for many hours after arrival, and the initial wave is not necessarily the largest.

Source:

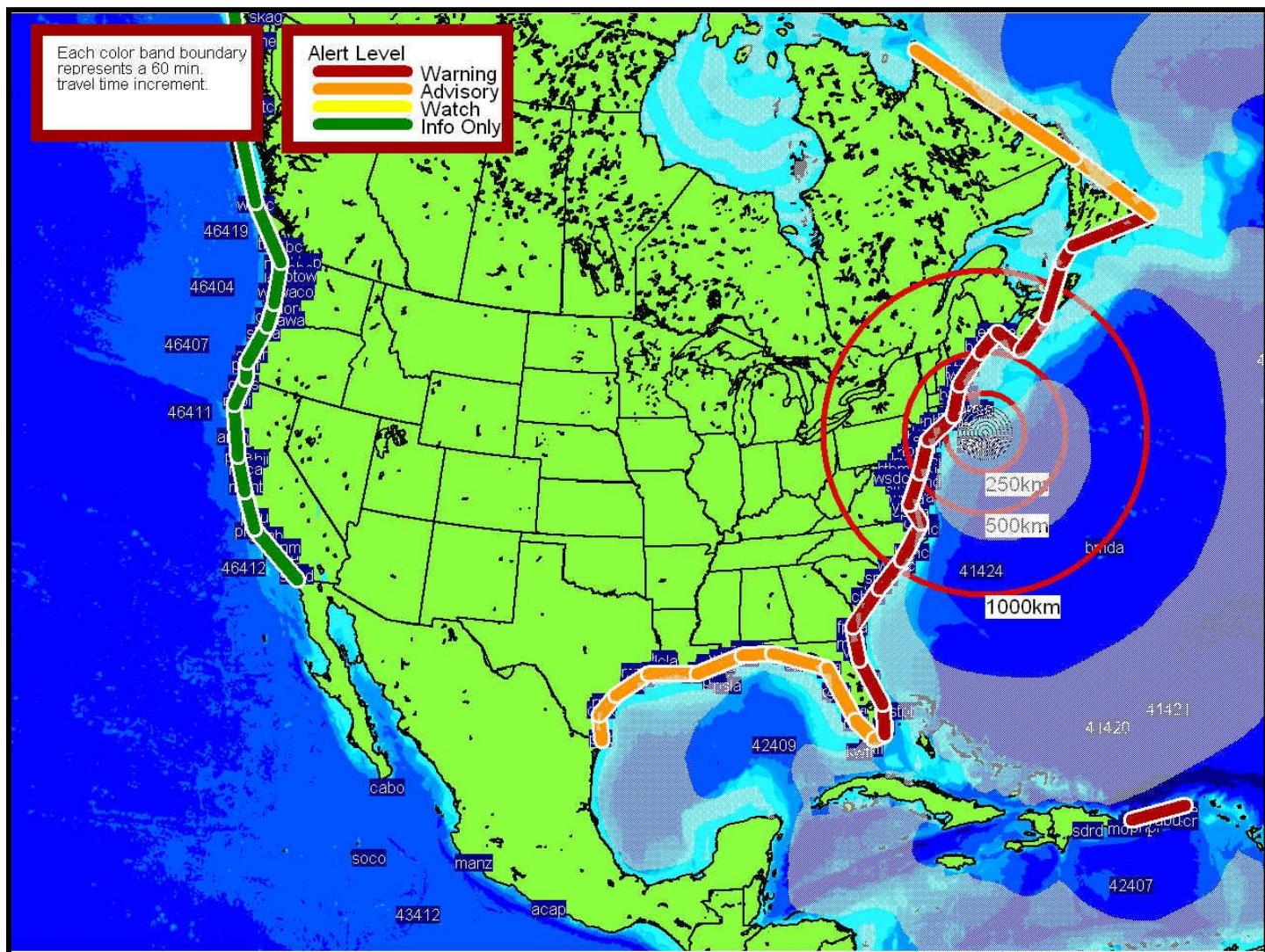
Lat: 40N
 Lng: 70W
 Mag: 7.5
 O-time: 1300UTC
 Date: MAR 24

Estimated times of initial tsunami arrival:

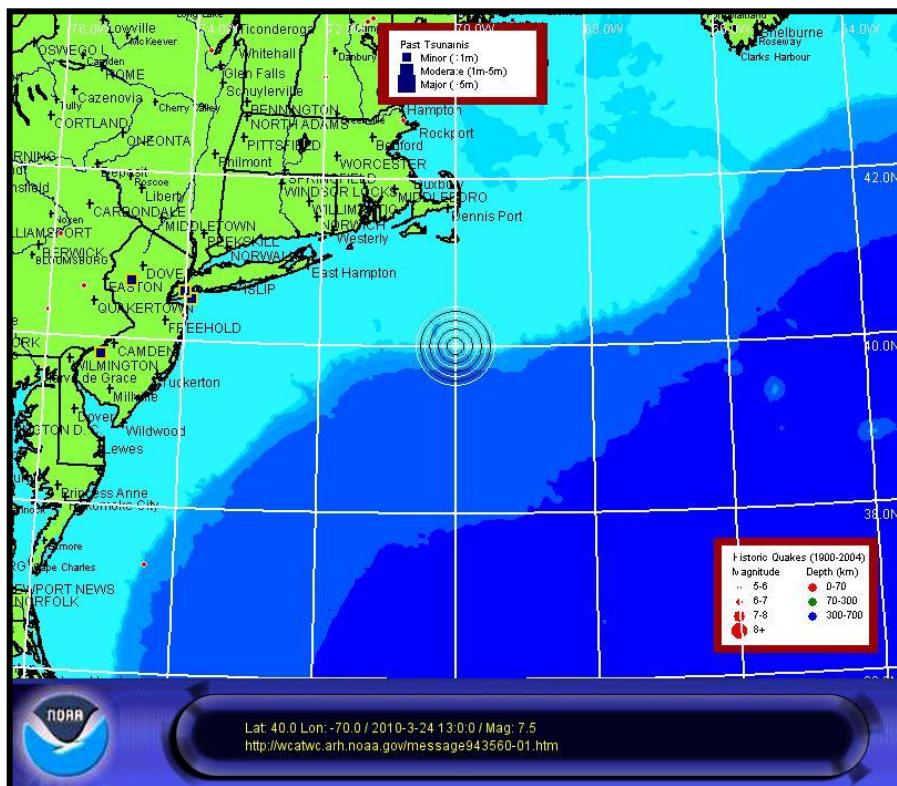
DART 44402	0913	EDT	MAR 24	1313	UTC	MAR 24
DART 41424	1013	EDT	MAR 24	1413	UTC	MAR 24
Bermuda	1036	EDT	MAR 24	1436	UTC	MAR 24
Cape Hatteras, North Carolina	1053	EDT	MAR 24	1453	UTC	MAR 24
Montauk Point, New York	1053	EDT	MAR 24	1453	UTC	MAR 24
Oregon Inlet, North Carolina	1103	EDT	MAR 24	1503	UTC	MAR 24
Watch Hill, Rhode Island	1106	EDT	MAR 24	1506	UTC	MAR 24
Woods Hole, Massachusetts	1108	EDT	MAR 24	1508	UTC	MAR 24
Fire Island Light, New York	1112	EDT	MAR 24	1512	UTC	MAR 24
Newport, Rhode Island	1117	EDT	MAR 24	1517	UTC	MAR 24
Nantucket Island, Massachusetts	1119	EDT	MAR 24	1519	UTC	MAR 24
Lockeport, Nova Scotia	1221	ADT	MAR 24	1521	UTC	MAR 24
Ocean City, Maryland	1221	EDT	MAR 24	1521	UTC	MAR 24
DART 44401	1123	EDT	MAR 24	1523	UTC	MAR 24
DART 41420	1127	EDT	MAR 24	1527	UTC	MAR 24
New London, Connecticut	1128	EDT	MAR 24	1528	UTC	MAR 24
Duck, North Carolina	1129	EDT	MAR 24	1529	UTC	MAR 24
Atlantic City, New Jersey	1131	EDT	MAR 24	1531	UTC	MAR 24
Currituck Beach Lighthouse, North Carolina	1132	EDT	MAR 24	1532	UTC	MAR 24
DART 41421	1132	EDT	MAR 24	1532	UTC	MAR 24
Samana Cay, Bahamas	1137	EDT	MAR 24	1537	UTC	MAR 24
Sandy Hook, New Jersey	1137	EDT	MAR 24	1537	UTC	MAR 24
Cape Henlopen, Delaware	1140	EDT	MAR 24	1540	UTC	MAR 24
Lewes, Delaware	1143	EDT	MAR 24	1543	UTC	MAR 24
Quonset Point, Rhode Island	1149	EDT	MAR 24	1549	UTC	MAR 24
Beaufort, North Carolina	1151	EDT	MAR 24	1551	UTC	MAR 24
Virginia Beach, Virginia	1156	EDT	MAR 24	1556	UTC	MAR 24
Charlesville, Nova Scotia	1259	ADT	MAR 24	1559	UTC	MAR 24
Yarmouth, Nova Scotia	1303	ADT	MAR 24	1603	UTC	MAR 24
Settlement Point, Bahamas	1203	EDT	MAR 24	1603	UTC	MAR 24
Aguadilla, Puerto Rico	1209	AST	MAR 24	1609	UTC	MAR 24
Cape May, New Jersey	1210	EDT	MAR 24	1610	UTC	MAR 24
San Juan, Puerto Rico	1211	AST	MAR 24	1611	UTC	MAR 24
Chezzetcook, Nova Scotia	1312	ADT	MAR 24	1612	UTC	MAR 24
Halifax, Nova Scotia	1313	ADT	MAR 24	1613	UTC	MAR 24
Chesapeake Bridge, Virginia	1215	EDT	MAR 24	1615	UTC	MAR 24
Fort Point, New Hampshire	1215	EDT	MAR 24	1615	UTC	MAR 24
Cutler NAS, Maine	1215	EDT	MAR 24	1615	UTC	MAR 24
Mona Island, Puerto Rico	1217	AST	MAR 24	1617	UTC	MAR 24
Merrimack River, Massachusetts	1219	EDT	MAR 24	1619	UTC	MAR 24
Mayaguez, Puerto Rico	1220	AST	MAR 24	1620	UTC	MAR 24
Virgin Gorda, British Virgin Islands	1221	EDT	MAR 24	1621	UTC	MAR 24
Guantanamo Bay, Cuba	1221	EDT	MAR 24	1621	UTC	MAR 24
New Haven, Connecticut	1225	EDT	MAR 24	1625	UTC	MAR 24
Christiansted, U.S. Virgin Is	1225	AST	MAR 24	1625	UTC	MAR 24
Jupiter Inlet, Florida	1225	EDT	MAR 24	1625	UTC	MAR 24
Grand Manan Is., New Brunswick	1330	ADT	MAR 24	1630	UTC	MAR 24

Bar Harbor, Maine	1230	EDT	MAR	24	1630	UTC	MAR	24
Virginia Key, Florida	1230	EDT	MAR	24	1630	UTC	MAR	24
Manhattan, New York	1231	EDT	MAR	24	1631	UTC	MAR	24
Lameshur Bay, U.S. Virgin Islands	1231	AST	MAR	24	1631	UTC	MAR	24
Limetree Bay, U.S. Virgin Is.	1231	AST	MAR	24	1631	UTC	MAR	24
Vieques Is., Puerto Rico	1231	AST	MAR	24	1631	UTC	MAR	24
the U.S.-Canada border	1233	EDT	MAR	24	1633	UTC	MAR	24
Surf City, North Carolina	1233	EDT	MAR	24	1633	UTC	MAR	24
Magueyes Island, Puerto Rico	1236	AST	MAR	24	1636	UTC	MAR	24
Kiptopeke, Virginia	1236	EDT	MAR	24	1636	UTC	MAR	24
Bergen Point, New Jersey	1236	EDT	MAR	24	1636	UTC	MAR	24
Wrightsville Beach, North Carolina	1237	EDT	MAR	24	1637	UTC	MAR	24
Scatarie Island, Nova Scotia	1337	ADT	MAR	24	1637	UTC	MAR	24
Port Aux Basque, Newfoundland	1407	NDT	MAR	24	1637	UTC	MAR	24
Culebra, Puerto Rico	1240	AST	MAR	24	1640	UTC	MAR	24
Cape Ray, Newfoundland	1411	NDT	MAR	24	1641	UTC	MAR	24
Portland, Maine	1242	EDT	MAR	24	1642	UTC	MAR	24
Ocean Reef, Florida	1242	EDT	MAR	24	1642	UTC	MAR	24
Money Point, Virginia	1244	EDT	MAR	24	1644	UTC	MAR	24
Miami, Florida	1245	EDT	MAR	24	1645	UTC	MAR	24
Charlotte Amalie, U.S. Virgin Is	1245	AST	MAR	24	1645	UTC	MAR	24
Stonington, Maine	1247	EDT	MAR	24	1647	UTC	MAR	24
Bridgeport, Connecticut	1247	EDT	MAR	24	1647	UTC	MAR	24
St Lawrence, Newfoundland	1420	NDT	MAR	24	1650	UTC	MAR	24
Saint Pierre/Miquelon	1420	NDT	MAR	24	1650	UTC	MAR	24
Saint John, New Brunswick	1353	ADT	MAR	24	1653	UTC	MAR	24
Windmill Point, Virginia	1254	EDT	MAR	24	1654	UTC	MAR	24
Boston, Massachusetts	1255	EDT	MAR	24	1655	UTC	MAR	24
Meat Cove, Nova Scotia	1356	ADT	MAR	24	1656	UTC	MAR	24
Ship John Shoal, New Jersey	1301	EDT	MAR	24	1701	UTC	MAR	24
New Point Comfort, Virginia	1303	EDT	MAR	24	1703	UTC	MAR	24
South Santee River, South Carolina	1305	EDT	MAR	24	1705	UTC	MAR	24
Providence, Rhode Island	1308	EDT	MAR	24	1708	UTC	MAR	24
Argentia, Newfoundland	1439	NDT	MAR	24	1709	UTC	MAR	24
North Sydney, Nova Scotia	1411	ADT	MAR	24	1711	UTC	MAR	24
Port Canaveral, Florida	1313	EDT	MAR	24	1713	UTC	MAR	24
Myrtle Beach, South Carolina	1323	EDT	MAR	24	1723	UTC	MAR	24
Springmaid Pier, South Carolina	1325	EDT	MAR	24	1725	UTC	MAR	24
La Manche, Newfoundland	1455	NDT	MAR	24	1725	UTC	MAR	24
Key West, Florida	1327	EDT	MAR	24	1727	UTC	MAR	24
Melbourne, Florida	1333	EDT	MAR	24	1733	UTC	MAR	24
Vaca Key, Florida	1335	EDT	MAR	24	1735	UTC	MAR	24
Yorktown, Virginia	1339	EDT	MAR	24	1739	UTC	MAR	24
Jacksonville Beach, Florida	1341	EDT	MAR	24	1741	UTC	MAR	24
Flagler Beach, Florida	1342	EDT	MAR	24	1742	UTC	MAR	24
Saint Johns, Newfoundland	1513	NDT	MAR	24	1743	UTC	MAR	24
Kings Point, New York	1343	EDT	MAR	24	1743	UTC	MAR	24
Charleston, South Carolina	1344	EDT	MAR	24	1744	UTC	MAR	24
Lewisetta, Virginia	1347	EDT	MAR	24	1747	UTC	MAR	24
Savannah, Georgia	1356	EDT	MAR	24	1756	UTC	MAR	24
Fernandina Beach, Florida	1359	EDT	MAR	24	1759	UTC	MAR	24
Cancun, Mexico	1313	CDT	MAR	24	1813	UTC	MAR	24
Altamaha Sound, Georgia	1413	EDT	MAR	24	1813	UTC	MAR	24
St. Simons Is., Georgia	1421	EDT	MAR	24	1821	UTC	MAR	24
Harrington Harbour, Quebec	1530	ADT	MAR	24	1830	UTC	MAR	24
Pointe Saint Pierre, Quebec	1536	ADT	MAR	24	1836	UTC	MAR	24
DART 42409	1441	EDT	MAR	24	1841	UTC	MAR	24
Bonavista, Newfoundland	1627	NDT	MAR	24	1857	UTC	MAR	24
Flamingo, Florida	1459	EDT	MAR	24	1859	UTC	MAR	24
Pilots Station East, Louisiana	1408	CDT	MAR	24	1908	UTC	MAR	24
Battle Harbour, Labrador	1659	NDT	MAR	24	1929	UTC	MAR	24
Lanse au Clair, Newfoundland	1702	NDT	MAR	24	1932	UTC	MAR	24
Wood Islands, Prince Edward Is.	1633	ADT	MAR	24	1933	UTC	MAR	24
Sept Iles, Quebec	1634	ADT	MAR	24	1934	UTC	MAR	24
Holton Harbour, Newfoundland	1716	NDT	MAR	24	1946	UTC	MAR	24
Boat Harbour, Newfoundland	1732	NDT	MAR	24	2002	UTC	MAR	24
Grand Isle, Louisiana	1503	CDT	MAR	24	2003	UTC	MAR	24
Destin, Florida	1509	CDT	MAR	24	2009	UTC	MAR	24
Escuminac, New Brunswick	1711	ADT	MAR	24	2011	UTC	MAR	24
Charlottetown, Prince Edward Is.	1716	ADT	MAR	24	2016	UTC	MAR	24
Belledune, New Brunswick	1720	ADT	MAR	24	2020	UTC	MAR	24

Panama City, Florida	1522 CDT MAR 24	2022 UTC MAR 24
Port Fourchon, Louisiana	1522 CDT MAR 24	2022 UTC MAR 24
Cape Chidley, Labrador	1624 AST MAR 24	2024 UTC MAR 24
Alvarado, Mexico	1528 CDT MAR 24	2028 UTC MAR 24
Nuuk, Greenland	1635 EDT MAR 24	2035 UTC MAR 24
Tampico, Mexico	1542 CDT MAR 24	2042 UTC MAR 24
Brownsville, Texas	1545 CDT MAR 24	2045 UTC MAR 24
Apalachicola, Florida	1545 CDT MAR 24	2045 UTC MAR 24
Hebron, Newfoundland	1750 ADT MAR 24	2050 UTC MAR 24
Port Isabel, Texas	1559 CDT MAR 24	2059 UTC MAR 24
the Mississippi-Alabama border	1602 CDT MAR 24	2102 UTC MAR 24
Nain, Newfoundland	1803 ADT MAR 24	2103 UTC MAR 24
Brevoort Harbour, Nunavut	1705 EDT MAR 24	2105 UTC MAR 24
Corpus Christi, Texas	1606 CDT MAR 24	2106 UTC MAR 24
Clearwater Beach, Florida	1709 EDT MAR 24	2109 UTC MAR 24
Cape Dyer, Nunavut	1715 EDT MAR 24	2115 UTC MAR 24
Baffin Bay, Texas	1618 CDT MAR 24	2118 UTC MAR 24
Shediac, New Brunswick	1828 ADT MAR 24	2128 UTC MAR 24
Naples, Florida	1734 EDT MAR 24	2134 UTC MAR 24
Waveland, Mississippi	1640 CDT MAR 24	2140 UTC MAR 24
Port O'connor, Texas	1642 CDT MAR 24	2142 UTC MAR 24
Rock Port, Texas	1645 CDT MAR 24	2145 UTC MAR 24
Freeport, Texas	1647 CDT MAR 24	2147 UTC MAR 24
Port Manatee, Florida	1808 EDT MAR 24	2208 UTC MAR 24
Bonita Beach, Florida	1809 EDT MAR 24	2209 UTC MAR 24
Fort Myers, Florida	1812 EDT MAR 24	2212 UTC MAR 24
Champoton, Mexico	1714 CDT MAR 24	2214 UTC MAR 24
St. Petersburg, Florida	1815 EDT MAR 24	2215 UTC MAR 24
Biloxi, Mississippi	1719 CDT MAR 24	2219 UTC MAR 24
Suwannee River, Florida	1820 EDT MAR 24	2220 UTC MAR 24
Galveston, Texas	1722 CDT MAR 24	2222 UTC MAR 24
Eugene Is., Louisiana	1730 CDT MAR 24	2230 UTC MAR 24
Clyde River, Nunavut	1838 EDT MAR 24	2238 UTC MAR 24
Morgan City, Louisiana	1742 CDT MAR 24	2242 UTC MAR 24
Cedar Key, Florida	1857 EDT MAR 24	2257 UTC MAR 24
Sabine Pass, Texas	1807 CDT MAR 24	2307 UTC MAR 24
High Island, Texas	1808 CDT MAR 24	2308 UTC MAR 24
Thule AFB, Greenland	1946 EDT MAR 24	2346 UTC MAR 24
Dundas Harbor, Nunavut	1954 EDT MAR 24	2354 UTC MAR 24



Ejemplo de un mapa de aviso/advertencia/vigilancia que será emitida en el boletín 6.



Ejemplo de un mapa de zona de origen emitido con el boletín 1.



Ejemplo de un mapa general emitido con el boletín 1.

Anejo F. Ejemplo de Comunicado de Prensa para Medios de Comunicación Local

FORMATO PARA LA DIVULGACIÓN DE NOTICIAS

ENDOSO DE LA AGENCIA ENCARGADA

Contacto: (nombre)
(número de teléfono)
(dirección electrónica)

PARA DIVULGACIÓN INMEDIATA
(fecha)

EJERCICIO DE TSUNAMI PARA EL NOROESTE DEL ATLÁNTICO A LLEVARSE A CABO EL 24 DE MARZO DE 2010

(Incluya comunidad/país/nombre del estado) participará junto con otras localidades en el noroeste del Atlántico en el ejercicio de respuesta de tsunami del 24 de marzo de 2010. El propósito de este ejercicio es evaluar los planes de respuesta de tsunamis a nivel local, incrementar la preparación en caso de tsunami y mejorar la coordinación a través de la región.

(Incluya el comentario promocional de una oficina local como por ejemplo "El tsunami del Océano Índico en el 2004 trajo a la atención del mundo la necesidad urgente de estar mejor preparados para tales eventos," informó (incluya el nombre de la agencia oficial apropiada.) "Este importante ejercicio evaluará los procedimientos actuales del Sistema de Alerta de Tsunami y ayudará a identificar las fortalezas y las debilidades operacionales en cada comunidad." (Favor de modificar para crear autenticidad.)

El ejercicio, titulado LANTEX 10, simulará una situación extensa de Aviso y Advertencia de tsunami en todo Estados Unidos y las costas canadienses en el noroeste del Atlántico que requieran la implementación de planes de respuesta de tsunami a nivel local. Este es el primer ejercicio que incluye todos los estados del Atlántico, provincias, territorios y estados libre asociados. El ejercicio ("incluirá" o "no incluirá") notificación pública.

El ejercicio simulará un terremoto mayor, un deslizamiento submarino y un tsunami generado a 90 millas al sur de Nantucket, MA y a 170 millas al sureste de Boston, MA; a las 9:00 am Horario Diurno del Este (o el horario local apropiado) el 24 de marzo de 2010. A los participantes del ejercicio se les proveerá un manual que describa el escenario y contiene los mensajes de tsunami emitidos por el Centro de Alerta de Tsunami de la Costa Oeste y Alaska (WCATWC, por sus siglas en inglés). El WCATWC es responsable de proveer los mensajes de aviso de tsunami a las costas atlánticas de EUA, Canadá, las costas del Golfo de México, Puerto Rico y las Islas Vírgenes.

Incluya un párrafo establecido específicamente para su comunidad. Podrían identificarse agencias participantes y planes específicos. Podrían describirse programas de aviso anticipado, ejercicios de tsunamis pasados (si alguno), programas consecutivos de educación pública, de mitigación y otros. Podrían describir amenazas de tsunami, la historia de los peligros de los tsunamis, si alguno.

Si durante el periodo de duración del ejercicio alguna amenaza real de tsunami ocurriera, el ejercicio será cancelado.

El ejercicio es patrocinado por la Administración Nacional Oceánica y Atmosférica de EUA (NOAA, por sus siglas en inglés) y por el Programa Nacional de Mitigación y Amenaza de Tsunamis de EUA (NTHMP – una sociedad de 28 estados y territorios, y tres agencias federales). Para más información del Sistema de Alerta de Tsunamis de EUA, vea www.tsunami.gov. Para más información sobre NTHMP, visite la página electrónica: nthmp.tsunami.gov.

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En Línea:

Centro de Alerta de Tsunami de la Costa Oeste y Alaska

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

Centro de Alerta de Tsunami del Pacífico

<http://www.prh.noaa.gov/ptwc>

Programa de Tsunamis de NOAA

<http://tsunami.noaa.gov>

NTHMP:

<http://tsunami.gov>

Incluya los URL de respuesta de emergencia local o estatal

<http://nthmp.tsunami.gov>

Anejo G. Evaluación del Ejercicio LANTEX 10.

(Esta evaluación permanecerá en inglés)

Todas las agencias participantes deberán proporcionar retroalimentación sobre el ejercicio con comentarios breves sobre el mismo. Esta información ayudará a NTHMP y a NOAA en la evaluación de Lantex 10 y en el desarrollo de ejercicios posteriores.

Por favor, llene y envíe el siguiente formulario en o antes del Viernes, 9 de abril de 2010 a la siguiente dirección:

WCATWC Director
NOAA/West Coast/Alaska Tsunami Warning Center
910 South Felton Street
Palmer, Alaska 99645

FAX: 907-745-6071

También se podrá escanear y enviar por correo electrónico a paul.whitmore@noaa.gov

Los formularios de evaluación del ejercicio están designados para "uso oficial solamente" y no serán distribuidos por NOAA o NTHMP a otras agencias.

**LANTEX 10 Tsunami Response Exercise
Evaluation Form
For Official Use Only**

Participant Location: _____

Participant Agency: _____

Agency Contact Information:

Name: _____

Address: _____

City, State, Zip: _____

Phone: _____

Email: _____

Please answer the following questions and provide any suggestions.

Was the exercise format satisfactory?

Did you receive the “dummy” message from the WCATWC to start the exercise? If so, through what channel(s) and approximately what time was it received?

Was the content and intention of the tsunami messages clear?

Should any other content be added to the messages, or was any superfluous?

Did your agency have a tsunami response plan in place prior to the exercise?

If so, was the response plan adequate to address the event?

What actions did the agency take during the exercise?

Were the emergency management actions during the event clearly laid out by the plan?

During a real event, how is the local population notified of any tsunami danger?

Was any feedback received from the public?

Are the potential tsunami danger zones known in your area?

Was the exercise helpful in validating the response plan or showing that it was not sufficient?