



CARIBE WAVE/LANTEX 2013

Seminario en Linea

14 de febrero de 2013

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Servicio Nacional de Meteorología, EEUUAA

Cronograma del Ejercicio

Action	Due Date
1st Draft Circulated among Task Team	July 1, 2012
2 nd Draft Circulated among ICG CARIBE EWS TNC/TWFP	September 1, 2012
Final Exercise Manual Available on Line	November 1, 2012
Circular Letter Issued by IOC	November 15, 2012
1st Webinar	Mid- Late January, 2013
2 nd Webinar	Mid – Late February 2013
Exercise	March 20, 2013
Exercise Questionnaire Due	April 1, 2013
Report	ICG CARIBE EWS VIII

Resumen Webinar 24 de Enero de 2013

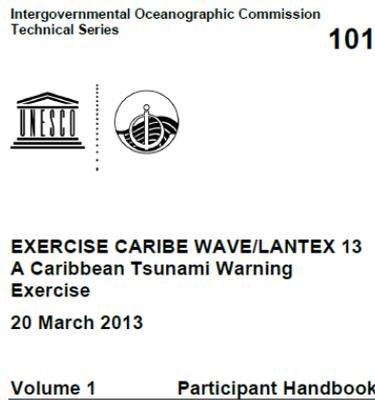
- Presentación está en línea en <http://www.srh.noaa.gov/srh/ctwp/>
- Marco de referencia institucional para el ejercicio – UNESCO y NOAA/SNM/NTHMP
- Caribe wave 2011
- Justificaciones para el ejercicio 2013
- Objetivos y Metas ejercicio del 2013
- Escenario de Tsunami y Terremoto
- Productos
- Medios comunicación, evaluación

Agenda

- Resumen ejercicio
- Comunicaciones y productos
- Arreglos con los medios de comunicación
- Evaluación

MANUAL DEL EJERCICIO

- El Manual del Ejercicio CARIBE WAVE/LANTEX 13 (109 páginas) está disponible en línea en inglés en:
 - <http://www.srh.noaa.gov/srh/ctwp> (Página web del Programa de Alerta de Tsunamis del Caribe)



Caribbean Tsunami Warning Program

CARIBE WAVE/LANTEX 2013

March 20, 2013

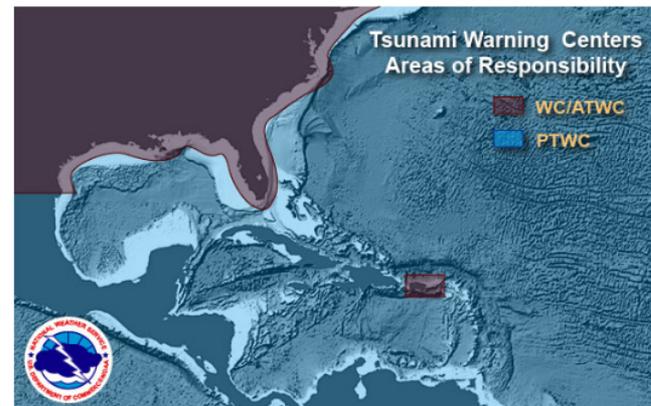
A Caribbean, Western Atlantic and Gulf of Mexico Tsunami Warning Exercise

Webinars for CARIBE WAVE/LANTEX 2013

- [24 de enero en español](#)
- [25 January in English](#)
- [14 de febrero en español](#) Nueva fecha
- [15 February in English](#) New date
- [Register by March 18, 2013](#) to receive Tsunami Messages during CARIBE WAVE/LANTEX 2013
- Exercise CARIBE WAVE/ LANTEX13 [Participant Handbook](#)
- How to Plan, Conduct and Evaluate Tsunami Exercises ([English](#) | [Español](#))
- LANTEX 2013 [Presentation](#) (English)
- Submit [CARIBE WAVE/LANTEX 2013 Post-Exercise evaluation](#) by April 1, 2013

Additional Websites for CARIBE WAVE/LANTEX 2013:

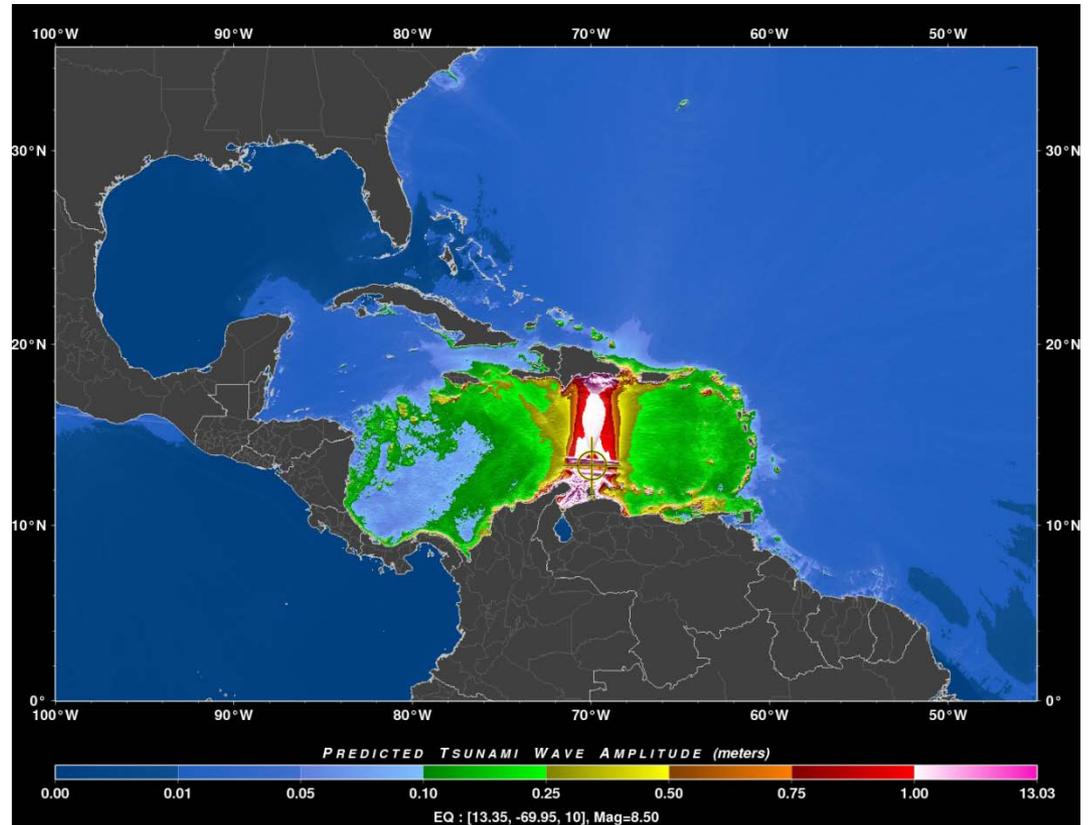
- [Puerto Rico Seismic Network](#)
- [National Tsunami Hazard Mitigation Program](#)
- [UNESCO IOC](#)



- Notification Subscription Services**
- Pacific Center (RSS/Emails)
 - West Coast/Alaska Center (RSS/Email)
- Carib. Sea Level Stations Inventory of Stations**
- (Google map)
 - IOC Sea Level Monitoring Facility
 - Status of Sea Level Data Availability
- Seismic Stations**
- IRIS CARIBE EWS Virtual Seismic Network
 - Sistema de Monitoreo de Estaciones RSPR
 - Status of Seismic Data Availability
- Communications Systems**
- EMWIN
 - NOAA Weather Radios
 - GTS
- NOAA Tsunami Program**
- CTWP Presentations
 - Tsunami Database
 - CARIBE EWS
 - IOC Tsunami Programme Home
 - Organizational Structure & Governance
 - Communication Plan
 - Communication Test
- Preparedness**
- Education
 - Tsunami Messages
 - COMET Warning Systems
 - JetStream
 - NOAA Education
- CTWP Activities**
- Calendar
- CTWP Office**
- Staff
 - CTWP News
 - CTWP Homepage

CARIBE WAVE/LANTEX 13

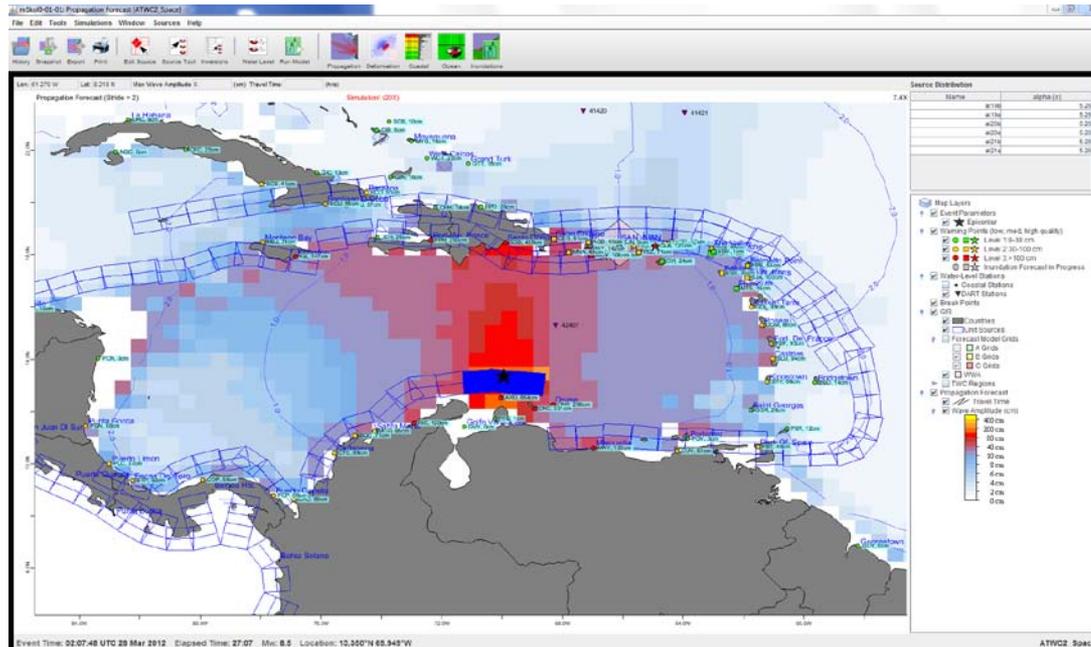
- 20 de Marzo de 2013
- 13h00 UTC
- M 8.5 al norte de Aruba
- Mensajes de comienzo serán diseminados por el PTWC y WCATWC. Otros centros de alerta también estarán emitiendo sus productos



PTWC RIFT Model Output

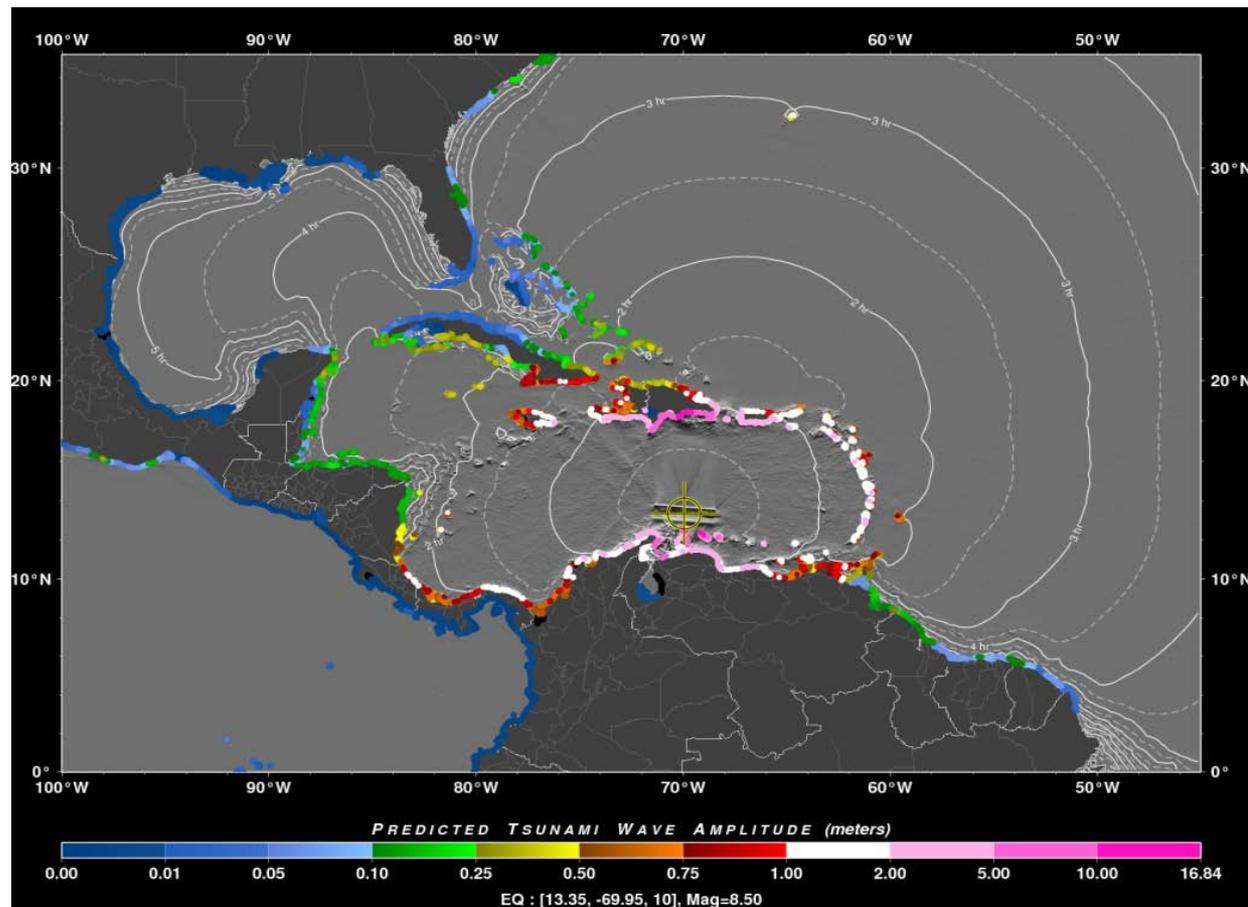
CARIBE WAVE LANTEX 2013

- Terremoto M 8.5 con epicentro en 13.35N, 69.95W con un area de ruptura = 300 x 100 km, profundidad 10 km. Desplazamiento de 5.26 meters.



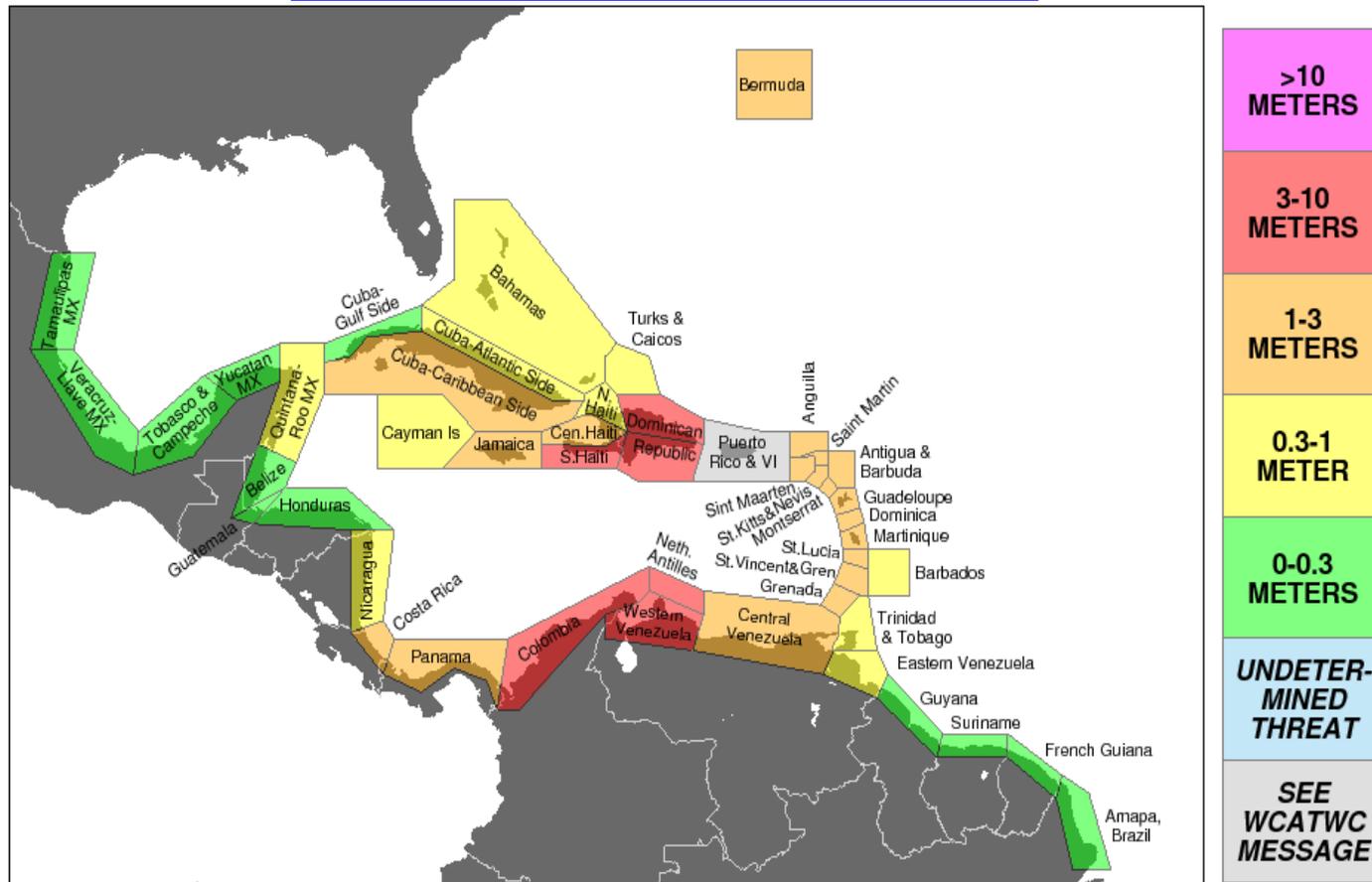
Gráfica con modelo de pronóstico, el área de ruptura está en azul (Kara Sterling, US NWS WCATWC).

Gráfica RIFT (Rapid Inundation Forecasting of Tsunamis) con los tiempos de viaje y alturas de olas pronosticadas (Charles McCreery, US NWS PTWC).



Oportunidad para evaluar nuevos productos, estos no se enviarán durante el ejercicio, si no serán colocados en el website

www.caribewave.info



CARIBE EWS Proposed Forecast Polygons (Charles McCreery, US NWS PTWC).

Aclaración sobre Alturas de Olas

WCATWC Message #3 :

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE OF MEASUREMENT	TIME	OBSERVED	MAX TSUNAMI HEIGHT
WILLEMSTAD CURACAO	0929 AST 03/20	05.8FT	

PTWC Message #3:

GAUGE LOCATION	LAT LON	TIME	AMPL	PER
WILLEMSTAD CURACAO	12.1N 68.9W	1359Z	3.44M / 11.2FT	20MIN

- Significado de Amplitud es altura de ola, no de pico a valle, si no sobre nivel de mar

Productos para el Mensaje Dummy y los Canales de Diseminacion de los Centros de Alerta

<u>Center</u>	<u>WMO ID</u>	<u>AWIPS ID</u>	<u>NWWS</u>	<u>AFTN</u>	<u>GTS</u>	<u>EMWIN</u>	<u>Fax</u>	<u>Email</u>
WCATWC	WEXX30 PAAQ	TSUATE	Yes	Yes	Yes	Yes	Yes	Yes
PTWC	WECA41 PHEB	TSUCAX	Yes	Yes	Yes	Yes	Yes	Yes

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

En el caso de WCATWC el mensaje Dummy se emitira con el codigo WMO ID WEXX30 PAAQ (en vez de WEXX20 PAAQ) y AWIPS ID TSUATE (en vez de TSUAT1).

Cronograma de Mensajería

Date (UTC)	Time (UTC)	WCATWC Message				PTWC Message				
		#	Type	Dummy	Email	#	Type	Dummy	Email	
03/20/2013	1300		----- Earthquake Occurs -----							
03/20/2013	1302	01	Warn	Yes	Yes	01	Watch	Yes	Yes	
	1330					02	Watch	No	Yes	
03/20/2013	1337	02	Warn	No	Yes					
03/20/2013	1402	03	Warn	No	Yes					
	1420					03	Watch	No	Yes	
03/20/2013	1432	04	Warn	No	Yes					
03/20/2013	1502	05	Warn	No	Yes					
	1515					04	Watch	No	Yes	
03/20/2013	1604	06	Warn	No	Yes					
	1610					05	Watch	No	Yes	
03/20/2013	1704	07	Warn	No	Yes					
	1710					06	Watch	No	Yes	
03/20/2013	1803	08	Warn	No	Yes					
	1810					07	Watch	No	Yes	
03/20/2013	1902	09	Can	No	Yes					
	1910					08	Can	No	Yes	

Mensajes Simulados serán Provistos por el PTWC y WC/ATWC:

➤ Warning

– Watch

– Advisory

➤ Cancellation

- West Coast/Alaska Tsunami Warning Center

➤ Caribbean-Wide Tsunami Watch

➤ Cancellation

- Pacific Tsunami Warning Center

Solo el Dummy se enviará por todos los canales de comunicación para recibir los otros mensajes por email hay que suscribirse hasta el 18 de marzo:

<http://redsismica.uprm.edu/lantex/>

Link también en <http://www.srh.noaa.gov/srh/ctwp/>

Hasta el momento hay 31 personas registradas

Appendix D. TWC Dummy Messages

WCATWC

WEXX30 PAAQ 201302
TSUATE

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
902 AM AST WED MAR 20 2013

...CARIBE WAVE 13/LANTEX 13 TSUNAMI EXERCISE MESSAGE. REFER TO WCATWC MESSAGE 1
IN THE EXERCISE HANDBOOK. THIS IS AN EXERCISE ONLY...

THIS MESSAGE IS BEING USED TO START THE CARIBE WAVE 13/LANTEX 13 CARIBBEAN
TSUNAMI EXERCISE. THIS WILL BE THE ONLY EXERCISE MESSAGE BROADCAST FROM THE
WEST COAST/ALASKA TSUNAMI WARNING CENTER EXCLUDING SPECIAL EMAIL MESSAGES
DISCUSSED IN THE HANDBOOK. 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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PTWC

WECR41 PHEB 201302
TSUCRX

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 1...TEST
NWS PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
ISSUED AT 1302Z 20 MAR 2013

...CARIBE WAVE 13/LANTEX 13 TSUNAMI EXERCISE MESSAGE. REFER TO PTWC MESSAGE 1 IN
THE EXERCISE HANDBOOK. THIS IS AN EXERCISE ONLY...

THIS MESSAGE IS BEING USED TO START THE CARIBE WAVE 13/LANTEX 13 CARIBBEAN
TSUNAMI EXERCISE. THIS WILL BE THE ONLY EXERCISE MESSAGE BROADCAST FROM THE
PACIFIC TSUNAMI WARNING CENTER EXCLUDING SPECIAL EMAIL MESSAGES DISCUSSED IN THE
HANDBOOK. THE HANDBOOK IS AVAILABLE AT THE WEB SITE 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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Appendix E. WCATWC Exercise Messages

The following messages, created for the CARIBE WAVE 13/LANTEX 13 tsunami exercise, are representative of the official standard products issued by the WCATWC during a large magnitude 8.5 earthquake and tsunami originating 57 miles north of Oranjestad, Aruba in the Caribbean Sea at 13.35°N, 69.95°W. During a real event, the TWCs would also issue graphical and html-based products to their web sites and via RSS. Forecasts are only provided for points where the WCATWC has high resolution digital elevation models. Observations are only provided for locations where there is a tide gauge to which the WCATWC has real time access.

WCATWC Message #1

WEXX30 PAAQ 201302
TSUATE

BULLETIN
PUBLIC TSUNAMI MESSAGE NUMBER 1
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
902 AM AST WED MAR 20 2013

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

WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

- * COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.

PRELIMINARY EARTHQUAKE PARAMETERS

* MAGNITUDE 8.5
* ORIGIN TIME 0800 EDT MAR 20 2013
0900 AST MAR 20 2013
0800 CDT MAR 20 2013
1300 UTC MAR 20 2013
* COORDINATES 13.4 NORTH 70.0 WEST
* DEPTH 8 MILES / 10 KM
* LOCATION CARIBBEAN SEA

IMPACTS FOR TSUNAMI WARNING AREAS

- * A TSUNAMI WITH SIGNIFICANT WIDESPREAD INUNDATION OF LAND IS EXPECTED.
- * WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.

RECOMMENDED ACTIONS

- * IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.
- * BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- * DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- * DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS

INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

SITE	FORECAST START OF OF TSUNAMI	FORECAST TSUNAMI DURATION	FORECAST MAX TSUNAMI HEIGHT	OBSERVED MAX TSUNAMI HEIGHT
* PUERTO RICO				
PENUELAS	0958 AST 03/20			
YABUCCA	1002 AST 03/20			
MAYAGUEZ	1011 AST 03/20			
SAN JUAN	1021 AST 03/20			
ESPERANZA	1029 AST 03/20			

* VIRGIN ISLANDS
LAMESHUR BAY 1011 AST 03/20
CHARLOTTE HX 1015 AST 03/20

FORECAST MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE PREDICTED TIDE

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

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

NEXT UPDATE AND ADDITIONAL INFORMATION

- * THIS MESSAGE WILL BE UPDATED IN 30 MINUTES.
- * REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- * CARIBBEAN COASTAL RESIDENTS OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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WCATWC Message #2

WEXX30 PAAQ 201307
TSUATE

BULLETIN
PUBLIC TSUNAMI MESSAGE NUMBER 2
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
937 AM AST WED MAR 20 2013

NEW OBSERVATIONS AND FORECASTS ARE LISTED BELOW.

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

WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

- * COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.

IMPACTS FOR TSUNAMI WARNING AREAS

PTWC Message #1

WECA41 FEB 201302
TSUCAK

TSUNAMI MESSAGE NUMBER 1
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI
1302 UTC WED MAR 20 2013

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

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

A TSUNAMI WATCH IS IN EFFECT FOR

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

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

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME 08:33:00 20 MAR 2013
COORDINATES 12.3° NORTH 68.3° WEST
LOCATION CARIBBEAN SEA
MAGNITUDE 8.5

EVALUATION

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

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

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS
WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL
ARRIVAL TIMES MAY DIFFER AND THE INITIAL WAVE MAY NOT BE THE
LARGEST. A TSUNAMI IS A SERIES OF WAVES AND THE TIME BETWEEN
SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
BONAIRE	ONIMA	12.3N 68.3W	1310Z 20 MAR
ARUBA	ORANJESTAD	12.5N 70.0W	1314Z 20 MAR
CURACAO	WILLEMSTAD	12.1N 68.9W	1326Z 20 MAR
COLOMBIA	SANTA MARTA	11.2N 74.2W	1327Z 20 MAR
	RIOHACHA	11.6N 72.9W	1348Z 20 MAR
	BARRANQUILLA	11.1N 74.9W	1350Z 20 MAR
	CARTAGENA	10.4N 75.6W	1352Z 20 MAR
	PUNTA CARIBANA	8.6N 76.9W	1426Z 20 MAR
VENEZUELA	MAIQUETIA	10.6N 67.0W	1329Z 20 MAR

	CUMANA	10.5N 64.2W	1423Z 20 MAR
	PUNTO FIJO	11.7N 70.2W	1522Z 20 MAR
	GOLFO VENEZUELA	11.4N 71.2W	1635Z 20 MAR
	FORLAMAR	10.9N 63.8W	1736Z 20 MAR
DOMINICAN REP	SANTO DOMINGO	18.5N 69.9W	1350Z 20 MAR
	CABO ENGANO	18.6N 68.3W	1356Z 20 MAR
	PUERTO PLATA	19.8N 70.7W	1433Z 20 MAR
	PLYMOUTH	16.7N 62.2W	1404Z 20 MAR
MONTERRAT	CASTRIES	14.0N 61.0W	1404Z 20 MAR
SAINT LUCIA	BASSE-TERRE	16.0N 61.7W	1405Z 20 MAR
GUADELOUPE	JEREMIE	18.6N 74.1W	1409Z 20 MAR
HAITI	CAP-HAITEN	19.8N 72.2W	1441Z 20 MAR
	PORT-AU-PRINCE	18.5N 72.4W	1507Z 20 MAR
GRENADA	SAINT GEORGES	12.0N 61.8W	1410Z 20 MAR
DOMINICA	ROSEAU	15.3N 61.4W	1410Z 20 MAR
SAINT KITTS	BASETERRE	17.3N 62.7W	1413Z 20 MAR
CUBA	SANTIAGO_D_CUBA	19.9N 75.8W	1413Z 20 MAR
	BARACOA	20.4N 74.5W	1429Z 20 MAR
	GIBARA	21.1N 76.1W	1457Z 20 MAR
	CIENFUEGOS	22.0N 80.5W	1504Z 20 MAR
	LA HABANA	23.2N 82.4W	1614Z 20 MAR
	SANTA_CRZ_D_SUR	20.7N 78.0W	1781Z 20 MAR
	NUEVA GERONA	21.9N 82.8W	1842Z 20 MAR
SAINT MAARTEN	SIMPSON_BAAI	15.0N 69.1N	1413Z 20 MAR
MARTINIQUE	FORT-DE-FRANCE	14.5N 61.0W	1414Z 20 MAR
ST VINCENT	KINGSTOWN	13.1N 60.2W	1416Z 20 MAR
JAMAICA	KINGSTON	17.5N 76.9W	1419Z 20 MAR
	MONTEGO BAY	18.5N 77.9W	1428Z 20 MAR
ANGUILLA	THE VALLEY	18.3N 63.1W	1419Z 20 MAR
PANAMA	PUERTO CARRETO	8.8N 77.6W	1424Z 20 MAR
	ALIGANDI	9.2N 78.0W	1426Z 20 MAR
	PUERTO OBALDIA	8.7N 77.4W	1427Z 20 MAR
	COLON	9.4N 79.9W	1435Z 20 MAR
	BOCAS DEL TORO	9.4N 82.2W	1501Z 20 MAR
ANTIGUA	SAINT JOHNS	17.1N 61.9W	1431Z 20 MAR
BARBADOS	BRIDGETOWN	13.1N 59.6W	1431Z 20 MAR
BARBUDA	PALMETTO POINT	17.6N 61.9W	1432Z 20 MAR
BAHAMAS	GREAT INAGUA	20.9N 73.7W	1434Z 20 MAR
	MAYAGUANA	22.3N 73.0W	1447Z 20 MAR
	LONG IS	23.3N 75.1W	1505Z 20 MAR
	CROOKED IS	22.7N 74.1W	1509Z 20 MAR
	SAN SALVADOR	24.1N 74.5W	1513Z 20 MAR
	ELEUTHERA IS	25.2N 76.1W	1524Z 20 MAR
	EXUMA	23.6N 75.9W	1525Z 20 MAR
	CAT IS	24.4N 75.5W	1525Z 20 MAR
	NASSAU	25.1N 77.4W	1537Z 20 MAR
	ANDROS IS	25.0N 77.9W	1540Z 20 MAR
	FREEPORT	26.5N 78.8W	1558Z 20 MAR
	ABACO IS	26.6N 77.1W	1612Z 20 MAR
	BIMINI	25.8N 79.3W	1618Z 20 MAR
TURKS N CAICOS	GRAND TURK	21.5N 71.1W	1439Z 20 MAR
	WEST CAICOS	21.7N 72.3W	1443Z 20 MAR
CAYMAN BRAC	CAYMAN ISLANDS	15.0N 75.8W	1440Z 20 MAR
TRINIDAD TOBAGO	PIRATES_BAY	11.3N 60.6W	1445Z 20 MAR
	PORT-OF-SPAIN	10.6N 61.5W	1620Z 20 MAR
COSTA RICA	PUERTO LIMON	10.0N 83.0W	1453Z 20 MAR
GRAND CAYMAN	CAYMAN ISLANDS	19.3N 81.3W	1457Z 20 MAR
SAINT MARTIN	BAIE BLANCHE	15.4N 62.0W	1459Z 20 MAR
NICARAGUA	PUNTA GORDA	11.4N 83.8W	1541Z 20 MAR
	PUERTO CABEZAS	14.0N 83.4W	1937Z 20 MAR
BERMUDA	RUTHS_BAY	32.4N 64.6W	1551Z 20 MAR

Cont. PTWC

MEXICO	COZUMEL	20.5N	87.0W	1555Z	20	MAR
	VERACRUZ	19.2N	96.1W	1839Z	20	MAR
	MADERO	22.3N	97.8W	1845Z	20	MAR
	TEXAS_BORDER	26.0N	97.1W	1856Z	20	MAR
	CAMPECHE	19.9N	90.5W	2221Z	20	MAR
HONDURAS	PUERTO_CORTES	15.9N	88.0W	1555Z	20	MAR
	TRUJILLO	15.9N	86.0W	1626Z	20	MAR
BELIZE	BELIZE_CITY	17.5N	88.2W	1635Z	20	MAR
GUATEMALA	PUERTO_BARRIOS	15.7N	88.6W	1819Z	20	MAR
FRENCH GUIANA	CAYENNE	4.9N	52.3W	1848Z	20	MAR
SURINAME	PARAMARIBO	5.9N	55.2W	1850Z	20	MAR
GUYANA	GEORGETOWN	6.8N	58.2W	1851Z	20	MAR
BRAZIL	FORTALEZA	3.7S	38.5W	1934Z	20	MAR
	SAO_LUIS	2.5S	44.3W	2121Z	20	MAR
	ILHA_DE_MARACA	2.2N	50.5W	2200Z	20	MAR

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



WCATWC Message #9

WEXX30 PAAQ 201902
TSUATE

BULLETIN
PUBLIC TSUNAMI MESSAGE NUMBER 9
NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK
302 PM AST WED MAR 20 2013

...THE TSUNAMI WARNING IS CANCELLED...

CANCELLATIONS

* COASTAL AREAS OF PUERTO RICO AND THE VIRGIN ISLANDS.

IMPACTS - UPDATED

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

RECOMMENDED ACTIONS - UPDATED

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

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
PENUELAS PUERTO RICO	1035 AST 03/20	03.8FT
YABUCCA PUERTO RICO	1045 AST 03/20	02.8FT
MAYAGUEZ PUERTO RICO	1115 AST 03/20	02.1FT
SAN JUAN PUERTO RICO	1105 AST 03/20	01.1FT
ESPERANZA VIEQUES IS. PR	1105 AST 03/20	01.8FT
LAMESHUR BAY USVI	1057 AST 03/20	01.8FT
CHARLOTTE NN USVI	1015 AST 03/20	03.1FT
WILLEMSTAD CURACAO	0929 AST 03/20	05.8FT
SANTO DOMINGO DR	0953 AST 03/20	11.2FT
PUNTA CANA DR	1003 AST 03/20	01.8FT
ROSEAU DOMINICA	1018 AST 03/20	00.8FT
BARAHONA DR	1027 AST 03/20	07.7FT
CAP HAITIEN HT	1146 AST 03/20	00.4FT
DESIRADE GUADELOUPE	1208 AST 03/20	00.6FT

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

NEXT UPDATE AND ADDITIONAL INFORMATION

- * THIS WILL BE THE LAST WEST COAST/ALASKA TSUNAMI WARNING CENTER BULLETIN ISSUED FOR THIS EVENT.
- * REFER TO THE INTERNET SITE WCATWC.ARH.NOAA.GOV FOR MORE

INFORMATION

- * CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO AND THE VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION AT PTWC.WEATHER.GOV.

PTWC Message #8

WECA41 PHEB 201910
TSUCMX

TSUNAMI MESSAGE NUMBER 8
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI
1910 UTC WED MAR 20 2013

THIS MESSAGE APPLIES TO COUNTRIES WITHIN AND BORDERING THE
CARIBBEAN SEA ~~EXCEPT FOR CUBA, SAO TOME AND PRINCE, AND THE VIRGIN ISLANDS.~~

... THE TSUNAMI WATCH IS CANCELLED.

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

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME 0 1305Z 20 MAR 2013
COORDINATES 13.3 NORTH 69.9 WEST
LOCATION CARIBBEAN SEA
MAGNITUDE 8.8

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

Gauge Location	LAT	LOX	TIME	AMPL	PER
DART 42407	18.3N	68.4W	1324Z	0.42M / 1.4FT	20MIN
MONA ISLAND FR	18.1N	67.8W	1352Z	3.77M / 12.2FT	18MIN
PENUELAS PR	18.0N	66.8W	1352Z	1.11M / 3.6FT	16MIN
WILLEMSTAD CURACAO	18.0N	69.7W	1352Z	3.44M / 11.2FT	20MIN
PUNTA CANA DO	18.0N	69.4W	1402Z	4.50M / 14.8FT	20MIN
BARAHONA DO	18.0N	71.1W	1407Z	6.15M / 20.0FT	18MIN
LIMETREE VI	18.0N	69.2W	1412Z	1.41M / 4.6FT	16MIN
YABUCCA PR	18.0N	68.8W	1412Z	0.86M / 2.8FT	22MIN
MAYAGUEZ PR	18.0N	67.2W	1412Z	0.65M / 2.1FT	12MIN
ST CROIX VI	17.7N	64.7W	1417Z	0.84M / 2.7FT	18MIN
MAGUEYES ISLAND PR	18.0N	67.7W	1419Z	2.56M / 8.3FT	24MIN
ESPERANZA VIEQUES PR	18.1N	65.5W	1420Z	0.06M / 1.9FT	16MIN
AGUADILLA PR	18.5N	67.2W	1420Z	1.92M / 6.3FT	19MIN
ARECIBO PR	18.3N	66.7W	1422Z	1.43M / 4.7FT	22MIN
PORT SAN ANDRES DO	18.4N	68.6W	1427Z	13.54M / 44.0FT	14MIN
ROSEAU DM	15.3N	61.4W	1432Z	1.10M / 3.6FT	18MIN
SAN JUAN PR	18.0N	66.7W	1432Z	0.34M / 1.1FT	14MIN
FRICKLEY BAY GD	18.0N	63.8W	1442Z	1.29M / 4.2FT	20MIN
BARBUDA AG	17.9N	61.8W	1450Z	0.21M / 0.7FT	22MIN
PUERTO PLATA DO	19.8N	70.7W	1450Z	0.49M / 1.6FT	22MIN
LAMESHURRAYS JOHNSTON	18.3N	64.7W	1450Z	0.58M / 1.9FT	17MIN
CHARLOTTE-AMALIE VI	18.3N	64.5W	1452Z	0.95M / 3.1FT	24MIN
DESTRADE GUYDALOURE	16.3N	61.1W	1457Z	0.18M / 0.6FT	24MIN
CULEBRA IS PR	18.3N	65.3W	1459Z	1.38M / 4.5FT	20MIN
CAP HAITIEN HT	18.0N	73.2W	1512Z	0.14M / 0.5FT	23MIN
FAJARDO PR	18.3N	65.6W	1512Z	1.21M / 3.9FT	22MIN
LIMON CR	10.0N	83.0W	1530Z	0.74M / 2.4FT	26MIN

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

LOX... LONGITUDE (E-EAST, W-WEST)

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

AMPL... TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CLEAR... THROUGH... WAVE... HEIGHT...
VALUES ARE GIVEN IN BOTH METERS (M) AND FEET (FT).

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

NOTE - DART MEASUREMENTS ARE FROM THE DEEP OCEAN AND THEY

ARE GENERALLY MUCH SMALLER THAN WOULD BE COASTAL
MEASUREMENTS AT SIMILAR LOCATIONS.

EVALUATION

A SIGNIFICANT TSUNAMI WAS GENERATED BY THIS EARTHQUAKE.
SEA LEVEL READINGS NOW INDICATE THAT THE THREAT IS DIMINISHING
IN MOST AREAS. THEREFORE THE TSUNAMI WATCH ISSUED BY THIS CENTER
IS NOW CANCELLED.

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

THIS WILL BE THE FINAL PRODUCT ISSUED BY THE PACIFIC TSUNAMI
WARNING CENTER FOR THIS EVENT UNLESS ADDITIONAL INFORMATION
BECOMES AVAILABLE.

Participación de los Estados Miembros

- Cada Estado Miembro debe establecer su propio grupo de trabajo nacional para decidir la envergadura de la participación y pruebas de comunicación.



MEDIOS DE COMUNICACIÓN

- Las comunidades pueden **invitar a sus órganos informativos** locales a participar en el Ejercicio a fin de sensibilizar a la población local al peligro de tsunami.
- Apendice H del Manual incluye un ejemplo de un comunicado de prensa
- La NOAA y UNESCO difundirán un **comunicado de prensa** varios días antes del Ejercicio a fin de describirlo y explicar su finalidad.
- **Guías para los medios** de tsunamis han sido preparados por la Red Sísmica de Puerto Rico (<http://www.prsn.uprm.edu/mediakit/>), y el Seismic Research Unit (<http://www.uwiseismic.com>).
- Si se van a emitir mensajes publicos el dia del ejercicio es muy importante **orientar a la población antes para evitar falsas alarmas.**

Formulario de Evaluación

A ser completado por Individuos/Agencias y Uno por Estado Miembro CARIBE EWS hasta el 1 de Abril 2013

https://www.surveymonkey.com/s/caribewave13_eval

Exercise CARIBE WAVE/LANTEX 13 Evaluation Form			
Contact Details			
Agency:		Country/State/Territory:	
Contact Name:		Contact Position:	
Contact Phone:		Contact Mobile:	
Contact E-Mail:			

		Yes	No	Comment	Not applicable	
0A	Are you filling out this evaluation as the Tsunami National Contact or Designated Agency? If No, only answer Section 5.	<input type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>	C <input type="checkbox"/>	NA <input type="checkbox"/>

		Yes	No	Comment	Not applicable	
0B	Did your country participate in CARIBE WAVE/LANTEX 13? If not, only answer sections 2 and 3 A and B.	<input type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>	C <input type="checkbox"/>	NA <input type="checkbox"/>

Otros Detalles

- Materiales adicionales serán colocados en las páginas de CTWP y RSPR.
- Enviar enlaces de paginas nacionales a christa.vonh@noaa.gov para incluir en la pagina del CTWP
- Esta presentación se subirá a la pagina de CTWP

Lantex Red Sismica de Puerto Rico Servicio Lantex 12 Fecha de evento: 25 de Marzo de 2012 Select Language

Home Mapas Documentos Manuales Enlaces

¿Qué es Lantex?

El ejercicio LANTEX es un ejercicio de Tsunami (Terremoto) que se realiza anualmente a lo largo de la costa este de OHA y Canadá, la costa del Golfo de México y en Puerto Rico y las Islas...

haga click aquí para ver la definición completa.

Temas de Importancia

- Objetivos
- Tipos de ejercicios
- Sistema General de Ejercicio
- Emergency Alert System (EAS)
- Programa Oficial del Gobernador
- Sustentase a nuestras fuentes de servicio
- Ejercicios Anteriores

Niveles de Mensajería de Tsunami

Conozca los Niveles de Mensajería de Tsunami

Terremotos / Earthquakes

Terremotos / Earthquakes

Tsunamis

Tsunamis

¿Quiénes pueden participar?

- Tsunami Warning Focus Points
- Agencias Gubernamentales y Federales
- Comunidades locales (en especial los Municipios TsunamiReady)
- Empresas Privadas
- Escuelas Públicas y Privadas

¿Cómo participar?

- Realizando uno de los 5 tipos de ejercicios
- Realizando al menos una de las pruebas de comunicaciones
- Completar las Evaluaciones de Ejercicio

Para más detalles de cómo participar oprima aquí...

Participa de este gran evento

¿Por qué deben participar los Municipios TsunamiReady?

¿Por qué deben participar las zonas AEMB-AQ, AEMB-AQ y OMBW?

¿Por qué deben participar las Escuelas?

Participa de este gran evento

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Webinars

- ✓ 24 de enero en español
- ✓ 25 January in English
- ✓ 14 de febrero en español
- 15 February in English

Equipo CARIBE WAVE LANTEX 2013

- Presidenta CARIBE EWS, Christa von Hillebrandt-Andrade
- Presidentes Grupos de Trabajo 1, 2, 3 and 4, Emilio Talavera, Narcisse Zahibo, Elizabeth Klute, Kerry Hinds
- Gerente Caribbean Tsunami Warning Program (Líder), Christa von Hillebrandt-Andrade
- Director/Representante Caribbean Tsunami Information Center
- Directora ITIC-Laura Kong
- Director Pacific Tsunami Warning Center-Charles McCreery
- Director West Coast/Alaska Tsunami Warning Center-Paul Whitmore
- Director CDEMA o designado
- Director CEPREDENAC o designado – Wilfred Strauch (designado para ejercicio)
- Secretario Técnico ICG CARIBE EWS – Bernardo Aliaga

Preguntas, Comentarios

¡Muchas Gracias!