Pacific Tsunami Warning Center Maritime Products

for the

UNESCO/IOC Pacific Tsunami Warning System

January 30, 2025

***Background***. In response to a request from the International Hydrographic Organization’s (IHO) World-Wide Navigational Warning System (WWNWS), the Pacific Tsunami Warning Center (PTWC) in its role as a Tsunami Service Provider (TSP) for the UNESCO/IOC Pacific Tsunami Warning System (PTWS) has developed Maritime Products for WWNWS NAVAREA Coordinators to help in advising ships at sea about tsunami hazards in their area. As a TSP, PTWC already evaluates potential and confirmed tsunamis in the Pacific Basin and its marginal seas and issues operational tsunami threat products covering those coasts to designated agencies within each country or territory. These new Maritime Products will be issued whenever PTWC has a quantitative forecast that indicates tsunami wave amplitudes of 0.3m or larger for any Pacific coast. This amplitude is generally recognized as the minimum for the tsunami to be a hazard.

**Overview**

The oceans of the world are divided into 21 distinct regions called NAVAREAS. For each NAVAREA, one of the countries with coasts bordering that NAVAREA has the responsibility to issue navigational warnings to the ships within. An overview map of the NAVAREAS is given in Figure 1. There are 8 NAVAREAS that cover the Pacific and its immediately adjacent areas – VI, X, XI, XII, XIII, XIV, XV, and XVI. The country responsible for each NAVAREA is given in Table 1. That country supports an individual called the NAVAREA Coordinator who is the authority responsible for collecting, coordinating, and issuing the navigational warnings.



Figure 1. Boundaries of the world's 21 NAVAREAS (not authoritative).

*Table 1. NAVAREAS in the Pacific and Adjacent Regions and the countries responsible*

|  |  |  |
| --- | --- | --- |
| **ID** | **Description** | **Country Responsible** |
| VI | Southwest Atlantic | Argentina |
| X | Southwest Pacific | Australia |
| XI | Western Pacific | Japan |
| XII | Northeast Pacific | USA |
| XIII | Western North Pacific | Russian Federation |
| XIV | Central South Pacific | New Zealand |
| XV | Eastern Central Pacific | Chile |
| XVI | Southeastern Pacific | Peru |

As a PTWS TSP, PTWC routinely evaluates and categorizes tsunami threats to each coast in the Pacific region. If the coast of a country or territory or geographically-named place immediately adjacent to a NAVAREA has a forecast of tsunami amplitudes of 0.3m or more, then that NAVAREA will be named in PTWC’s Maritime Message along with the names of the countries, territories and other places in PTWC’s service area having those forecast amplitudes. The correspondence between NAVAREAS and places, as implemented in the PTWC Maritime Messages, is given in Table 2.

*Table 2. Countries, territories, and geographically named places with coasts adjacent to each of the Pacific NAVAREAS. Places listed in italics are not a part of PTWC’s PTWS service area.*

|  |  |
| --- | --- |
| **ID** | **Countries or Territories or Other Geographic Locations with Adjacent Coasts** |
| VI | Uruguay, Argentina, Antarctica (68.6°W to 20°W) |
| X | Australia, Antarctica (80°E to 160°E), Papua New Guinea, Solomon Islands, Vanuatu, New Caledonia, Nauru |
| XI | Japan, Guam, Northern Marianas, China, Taiwan, Philippines, DPR of Korea, Republic of Korea, Vietnam, Cambodia, Thailand, Malaysia, Singapore, Indonesia, Brunei, Palau, Chuuk, Pohnpei, Marshall Islands, Wake Island, Kiribati (Gilbert Islands with North Latitude), and Kosrae |
| XII | Hawaii, Northwestern Hawaiian Islands, Ecuador, Colombia, Panama, Costa Rica, Nicaragua, Honduras, El Salvador, Guatemala, Mexico, *US West Coast, Canada (British Columbia), Alaska*, Howland and Baker, Johnston Atoll, Palmyra Island, Midway Island, Kiribati (Line Islands with North Latitude), Tuvalu (North Latitude) |
| XIII | Russia |
| XIV | New Zealand, Antarctica (160°E to 120°W), Tonga, Fiji, Samoa, American Samoa, Niue, Wallis and Futuna, Cook Islands, French Polynesia, Kermadec Islands, Jarvis Island, Tuvalu (South Latitude), Kiribati (Phoenix Islands), Kiribati (Gilbert Islands – South Latitude), Kiribati (Line Islands – South Latitude), Pitcairn Islands, and Tokelau |
| XV | Chile, Antarctica (120°W to 68.6°W) |
| XVI | Peru |

***Procedures and Timeline***

Seismic waves arriving on nearby seismic stations trigger PTWC alarms usually within a few minutes of any large Pacific earthquake. PTWC Duty Scientists determine the earthquake’s origin time, location, depth, and magnitude over the next few minutes and issue an initial PTWS Product if product criteria are met. Most of these products are Tsunami Information Statements indicating no tsunami threat because the earthquake is too small, or too deep within the earth, or too far inland to pose a tsunami threat. Sometimes, however, the earthquake does pose a tsunami threat. In that case the initial product is a Tsunami Threat Message and, depending on the earthquake parameters, an appropriately sized area around the earthquake is named as having a potential tsunami threat. No Maritime Product is issued at this time since the threat is not yet quantified.

Further analysis of the seismic signals produces a Centroid Moment Tensor (CMT) – a more detailed characterization of the earthquake. It includes the direction of the fault, how steeply it dips into the earth, and the direction the earth moved on either side of the fault. It also includes a more accurate estimate of the earthquake moment – the area of the fault that ruptured times the amount of slip across the fault times the shear strength of the rock. Lastly, it provides an estimate of the earthquake centroid which is the location and depth of the center of the rupture. From these parameters it can be estimated where and how much the seafloor was permanently displaced up or down above the fault. Those displacements in turn move the sea and that initiates the tsunami. PTWC uses a numerical model to propagate the tsunami from the source across the ocean basin and into the coast. It can provide a forecast of tsunami coastal amplitudes for all coasts in the Pacific. This process may take an additional few minutes to half-an-hour as multiple CMT results become available and as multiple numerical tsunami forecasts are made and compared, when possible, to initial sea level readings for validation. As soon as the Duty Scientists are confident in the results they will issue a product with the quantitative tsunami forecast.

At this point, with an estimate of where tsunami amplitudes are expected to be 0.3m or larger, an initial Maritime Product will be issued. Additional Maritime Products will only be issued if the forecast changes. A final Maritime Product will be issued when the tsunami threat is largely over – that is, when readings on most or all sea level gauges have fallen below 0.3m and there are no new coasts remaining to be impacted with hazardous waves. For smaller tsunamis that are only hazardous in an area near the earthquake, the threat is usually over within a few hours. For great Pacific-wide hazardous tsunamis, the threat may continue for 24 hours or longer.

**Message Content**

Maritime Messages are designed to be concise, providing only essential information. Unlike PTWC’s Threat Messages for the PTWS, they do not contain estimated tsunami arrival times at designated warning points, forecast tsunami amplitudes for coastal locations, readings from sea level gauges, nor general safety information about the tsunami hazard.

Information contained in the messages does include, however:

***Threat Message***

* Header
	+ Message Number
	+ Issued by PTWC for the PTWS
	+ Time Issued
* NAVAREAS that the message applies to
* Information about the earthquake that generated the tsunami
* Countries, territories, and other places with a forecast coastal tsunami hazard
* Information for ships about the tsunami hazard
* Instruction to ships

***Final Message***

* Header
* Statement that the threat has largely passed
* Instruction to ships

**Message Dissemination**

Dissemination of PTWC Maritime Messages will be by email only to the National Tsunami Warning Center and Tsunami Warning Focal Point of the countries responsible for the NAVAREAS that the message applies to and to the NAVAREA Coordinators of those NAVAREAS.

**Sample Messages**

The following are a series of messages representing what would be issued by PTWC for a large earthquake and subsequent tsunami off the Pacific coast of Central America. The sequence is the following:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Day** | **Time****(UTC)** | **PTWS****Message****Number** | **Maritime****Message****Number** | **Message Type and Description** |
| 02/04 | 1844 | - | - | Earthquake occurs |
| 02/04 | 1850 | 1 |  | PTWS threat message with potential coastal tsunami threat |
| 02/04 | 1910 | 2 | - | PTWS threat message with quantitative regional tsunami forecast |
| - | 1 | Maritime threat message for NAVAREAS XII and XVI |
| 02/04 | 1925 | 3 | - | PTWS message with quantitative Pacific-wide tsunami forecast |
| - | 2 | Maritime threat message for NAVAREAS X, XI, XII, XIV, XV, and XVI |
|  |  | 4-22 | - | Hourly PTWS threat messages reporting tsunami amplitudes on sea-level gauges |
| 02/05 | 1525 | 23 | - | PTWS final threat message |
| - | 3 | Maritime final message |

***PTWS Threat Message #1***

TEST...TSUNAMI MESSAGE NUMBER 1...TEST

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1850 UTC TUE FEB 4 2025

...THIS MESSAGE IS FOR TEST PURPOSES ONLY...

...TEST PTWC TSUNAMI THREAT MESSAGE TEST...

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*\*

 THIS IS A TEST MESSAGE. THIS MESSAGE IS ISSUED FOR INFORMATION

 ONLY IN SUPPORT OF THE UNESCO/IOC PACIFIC TSUNAMI WARNING AND

 MITIGATION SYSTEM AND IS MEANT FOR NATIONAL AUTHORITIES IN EACH

 COUNTRY OF THAT SYSTEM.

 THIS IS A TEST MESSAGE. NATIONAL AUTHORITIES WILL DETERMINE THE

 APPROPRIATE LEVEL OF ALERT FOR EACH COUNTRY AND MAY ISSUE

 ADDITIONAL OR MORE REFINED INFORMATION.

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*\*

TEST... PRELIMINARY EARTHQUAKE PARAMETERS ...TEST

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 \* MAGNITUDE 8.6

 \* ORIGIN TIME 1844 UTC FEB 4 2025

 \* COORDINATES 13.6 NORTH 91.0 WEST

 \* DEPTH 10 KM / 6 MILES

 \* LOCATION NEAR THE COAST OF GUATEMALA

TEST... EVALUATION ...TEST

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 \* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY

 MAGNITUDE OF 8.6 OCCURRED NEAR THE COAST OF GUATEMALA AT

 1844 UTC ON TUESDAY FEBRUARY 4 2025.

 \* THIS IS A TEST MESSAGE. BASED ON THE PRELIMINARY EARTHQUAKE

 PARAMETERS... WIDESPREAD HAZARDOUS TSUNAMI WAVES ARE

 POSSIBLE.

TEST... TSUNAMI THREAT FORECAST ...TEST

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 \* THIS IS A TEST MESSAGE. HAZARDOUS TSUNAMI WAVES FROM THIS

 EARTHQUAKE ARE POSSIBLE WITHIN THE NEXT THREE HOURS ALONG

 SOME COASTS OF

 GUATEMALA... MEXICO... EL SALVADOR... COSTA RICA...

 NICARAGUA... PANAMA... HONDURAS... COLOMBIA AND ECUADOR

TEST... RECOMMENDED ACTIONS ...TEST

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 \* THIS IS A TEST MESSAGE. GOVERNMENT AGENCIES RESPONSIBLE FOR

 THREATENED COASTAL AREAS SHOULD TAKE ACTION TO INFORM AND

 INSTRUCT ANY COASTAL POPULATIONS AT RISK IN ACCORDANCE WITH

 THEIR OWN EVALUATION... PROCEDURES AND THE LEVEL OF THREAT.

 \* THIS IS A TEST MESSAGE. PERSONS LOCATED IN THREATENED COASTAL

 AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW

 INSTRUCTIONS FROM NATIONAL AND LOCAL AUTHORITIES.

TEST... ESTIMATED TIMES OF ARRIVAL ...TEST

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 \* THIS IS A TEST MESSAGE. ESTIMATED TIMES OF ARRIVAL -ETA- OF

 THE INITIAL TSUNAMI WAVE FOR PLACES WITH A POTENTIAL TSUNAMI

 THREAT. 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 WAVES CAN BE FIVE MINUTES TO ONE HOUR.

 LOCATION REGION COORDINATES ETA(UTC)

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 SIPACATE GUATEMALA 13.9N 91.2W 1915 02/04

 MONTERRICO SANT GUATEMALA 13.9N 90.5W 1918 02/04

 PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1923 02/04

 TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1924 02/04

 OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1938 02/04

 CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1941 02/04

 PUERTO MADERO MEXICO 14.8N 92.5W 1942 02/04

 ACAJUTLA EL SALVADOR 13.6N 89.8W 1948 02/04

 CABO SAN ELENA COSTA RICA 10.9N 86.0W 1949 02/04

 SALINA CRUZ MEXICO 16.5N 95.2W 2001 02/04

 CORINTO NICARAGUA 12.5N 87.2W 2001 02/04

 PUERTO SANDINO NICARAGUA 12.2N 86.8W 2001 02/04

 SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 2010 02/04

 ACAPULCO MEXICO 16.9N 99.9W 2012 02/04

 PUERTO QUEPOS COSTA RICA 9.4N 84.2W 2012 02/04

 ISLA DEL COCO COSTA RICA 5.5N 87.1W 2013 02/04

 CABO MATAPALO COSTA RICA 8.4N 83.3W 2017 02/04

 PUNTA BURICA PANAMA 8.0N 82.9W 2024 02/04

 LAZARO CARDENAS MEXICO 17.9N 102.2W 2033 02/04

 AMAPALA HONDURAS 13.2N 87.6W 2034 02/04

 MANZANILLO MEXICO 19.1N 104.3W 2055 02/04

 PUNTA MALA PANAMA 7.5N 80.0W 2115 02/04

 PUERTO PINA PANAMA 7.4N 78.0W 2129 02/04

 BAHIA SOLANO COLOMBIA 6.3N 77.4W 2130 02/04

 BALTRA ISLAND ECUADOR 0.5S 90.3W 2132 02/04

 PUERTO VALLARTA MEXICO 20.6N 105.2W 2133 02/04

 ESMERELDAS ECUADOR 1.2N 79.8W 2145 02/04

TEST... POTENTIAL IMPACTS ...TEST

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 \* THIS IS A TEST MESSAGE. A TSUNAMI IS A SERIES OF WAVES. THE

 TIME BETWEEN WAVE CRESTS CAN VARY FROM 5 MINUTES TO AN HOUR.

 THE HAZARD MAY PERSIST FOR MANY HOURS OR LONGER AFTER THE

 INITIAL WAVE.

 \* THIS IS A TEST MESSAGE. IMPACTS CAN VARY SIGNIFICANTLY FROM

 ONE SECTION OF COAST TO THE NEXT DUE TO LOCAL BATHYMETRY AND

 THE SHAPE AND ELEVATION OF THE SHORELINE.

 \* THIS IS A TEST MESSAGE. IMPACTS CAN ALSO VARY DEPENDING UPON

 THE STATE OF THE TIDE AT THE TIME OF THE MAXIMUM TSUNAMI

 WAVES.

 \* THIS IS A TEST MESSAGE. PERSONS CAUGHT IN THE WATER OF A

 TSUNAMI MAY DROWN... BE CRUSHED BY DEBRIS IN THE WATER... OR

 BE SWEPT OUT TO SEA.

TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

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 \* THIS IS A TEST MESSAGE. THE NEXT MESSAGE WILL BE ISSUED IN

 ONE HOUR... OR SOONER IF THE SITUATION WARRANTS.

 \* THIS IS A TEST MESSAGE. AUTHORITATIVE INFORMATION ABOUT THE

 EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON

 THE INTERNET AT EARTHQUAKE.USGS.GOV.

 \* THIS IS A TEST MESSAGE. FURTHER INFORMATION ABOUT THIS EVENT

 MAY BE FOUND AT WWW.TSUNAMI.GOV.

 \* THIS IS A TEST MESSAGE. COASTAL REGIONS OF HAWAII... AMERICAN

 SAMOA... GUAM... AND CNMI SHOULD REFER TO PACIFIC TSUNAMI

 WARNING CENTER MESSAGES SPECIFICALLY FOR THOSE PLACES THAT

 CAN BE FOUND AT WWW.TSUNAMI.GOV.

 \* THIS IS A TEST MESSAGE. COASTAL REGIONS OF CALIFORNIA...

 OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD

 ONLY REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGES

 THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST

MESSAGE.

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***PTWS Threat Message #2***

TEST...TSUNAMI MESSAGE NUMBER 2...TEST

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1910 UTC TUE FEB 4 2025

...THIS MESSAGE IS FOR TEST PURPOSES ONLY...

...TEST PTWC TSUNAMI THREAT MESSAGE TEST...

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*\*

 THIS IS A TEST MESSAGE. THIS MESSAGE IS ISSUED FOR INFORMATION

 ONLY IN SUPPORT OF THE UNESCO/IOC PACIFIC TSUNAMI WARNING AND

 MITIGATION SYSTEM AND IS MEANT FOR NATIONAL AUTHORITIES IN EACH

 COUNTRY OF THAT SYSTEM.

 THIS IS A TEST MESSAGE. NATIONAL AUTHORITIES WILL DETERMINE THE

 APPROPRIATE LEVEL OF ALERT FOR EACH COUNTRY AND MAY ISSUE

 ADDITIONAL OR MORE REFINED INFORMATION.

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*\*

THIS IS A TEST MESSAGE. THE TSUNAMI FORECAST IS UPDATED IN THIS

MESSAGE.

TEST... PRELIMINARY EARTHQUAKE PARAMETERS ...TEST

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 \* MAGNITUDE 8.6

 \* ORIGIN TIME 1844 UTC FEB 4 2025

 \* COORDINATES 13.6 NORTH 91.0 WEST

 \* DEPTH 10 KM / 6 MILES

 \* LOCATION NEAR THE COAST OF GUATEMALA

TEST... EVALUATION ...TEST

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 \* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY

 MAGNITUDE OF 8.6 OCCURRED NEAR THE COAST OF GUATEMALA AT

 1844 UTC ON TUESDAY FEBRUARY 4 2025.

 \* THIS IS A TEST MESSAGE. BASED ON ALL AVAILABLE DATA...

 HAZARDOUS TSUNAMI WAVES ARE FORECAST FOR SOME COASTS.

TEST... TSUNAMI THREAT FORECAST...UPDATED ...TEST

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 \* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING MORE THAN 3

 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE ALONG SOME COASTS

 OF

 EL SALVADOR... AND GUATEMALA.

 \* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING 1 TO 3 METERS

 ABOVE THE TIDE LEVEL ARE POSSIBLE ALONG SOME COASTS OF

 COSTA RICA... ECUADOR... MEXICO... NICARAGUA... PANAMA...

 AND PERU.

 \* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING 0.3 TO 1

 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE FOR SOME COASTS OF

 COLOMBIA.

 \* THIS IS A TEST MESSAGE. ACTUAL AMPLITUDES AT THE COAST MAY

 VARY FROM FORECAST AMPLITUDES DUE TO UNCERTAINTIES IN THE

 FORECAST AND LOCAL FEATURES. IN PARTICULAR MAXIMUM TSUNAMI

 AMPLITUDES ON ATOLLS AND AT LOCATIONS WITH FRINGING OR

 BARRIER REEFS WILL LIKELY BE MUCH SMALLER THAN THE FORECAST

 INDICATES.

 \* THIS IS A TEST MESSAGE. FOR OTHER AREAS COVERED BY THIS

 PRODUCT A FORECAST HAS NOT YET BEEN COMPUTED. THE FORECAST

 WILL BE EXPANDED IF NECESSARY IN SUBSEQUENT PRODUCTS.

TEST... RECOMMENDED ACTIONS ...TEST

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 \* THIS IS A TEST MESSAGE. GOVERNMENT AGENCIES RESPONSIBLE FOR

 THREATENED COASTAL AREAS SHOULD TAKE ACTION TO INFORM AND

 INSTRUCT ANY COASTAL POPULATIONS AT RISK IN ACCORDANCE WITH

 THEIR OWN EVALUATION... PROCEDURES AND THE LEVEL OF THREAT.

 \* THIS IS A TEST MESSAGE. PERSONS LOCATED IN THREATENED COASTAL

 AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW

 INSTRUCTIONS FROM NATIONAL AND LOCAL AUTHORITIES.

TEST... ESTIMATED TIMES OF ARRIVAL ...TEST

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 \* THIS IS A TEST MESSAGE. ESTIMATED TIMES OF ARRIVAL -ETA- OF

 THE INITIAL TSUNAMI WAVE FOR PLACES WITHIN THREATENED

 REGIONS 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 WAVES CAN BE FIVE

 MINUTES TO ONE HOUR.

 LOCATION REGION COORDINATES ETA(UTC)

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 SIPACATE GUATEMALA 13.9N 91.2W 1915 02/04

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 PUERTO VALLARTA MEXICO 20.6N 105.2W 2133 02/04

 ESMERELDAS ECUADOR 1.2N 79.8W 2145 02/04

 TUMACO COLOMBIA 1.8N 78.9W 2152 02/04

 LA LIBERTAD ECUADOR 2.2S 81.2W 2208 02/04

 BUENAVENTURA COLOMBIA 3.8N 77.2W 2211 02/04

 TALARA PERU 4.6S 81.5W 2227 02/04

 BALBOA HEIGHTS PANAMA 9.0N 79.6W 2338 02/04

 PIMENTAL PERU 6.9S 80.0W 2341 02/04

 CHIMBOTE PERU 9.0S 78.8W 2356 02/04

 LA PUNTA PERU 12.1S 77.2W 2357 02/04

TEST... POTENTIAL IMPACTS ...TEST

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 TIME BETWEEN WAVE CRESTS CAN VARY FROM 5 MINUTES TO AN HOUR.

 THE HAZARD MAY PERSIST FOR MANY HOURS OR LONGER AFTER THE

 INITIAL WAVE.

 \* THIS IS A TEST MESSAGE. IMPACTS CAN VARY SIGNIFICANTLY FROM

 ONE SECTION OF COAST TO THE NEXT DUE TO LOCAL BATHYMETRY AND

 THE SHAPE AND ELEVATION OF THE SHORELINE.

 \* THIS IS A TEST MESSAGE. IMPACTS CAN ALSO VARY DEPENDING UPON

 THE STATE OF THE TIDE AT THE TIME OF THE MAXIMUM TSUNAMI

 WAVES.

 \* THIS IS A TEST MESSAGE. PERSONS CAUGHT IN THE WATER OF A

 TSUNAMI MAY DROWN... BE CRUSHED BY DEBRIS IN THE WATER... OR

 BE SWEPT OUT TO SEA.

TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

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 EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON

 THE INTERNET AT EARTHQUAKE.USGS.GOV.

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 SAMOA... GUAM... AND CNMI SHOULD REFER TO PACIFIC TSUNAMI

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 OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD

 ONLY REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGES

 THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST

MESSAGE.

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***Maritime Threat Message #1***

MARITIME TSUNAMI THREAT MESSAGE NUMBER 01

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1853 UTC TUE FEB 4 2025

THIS MESSAGE IS FOR NAVAREA XII, AND NAVAREA XVI.

A TSUNAMI THREAT IS OCCURING.

A TSUNAMI MAY HAVE BEEN GENERATED BY AN EARTHQUAKE WITH A

PRELIMINARY MAGNITUDE OF 8.6 THAT OCCURRED NEAR THE COAST OF

GUATEMALA AT 1844 UTC ON TUESDAY FEBRUARY 4 2025.

HAZARDOUS TSUNAMI WAVES ARE FORECAST FOR SOME COASTS OF COLOMBIA,

COSTA RICA, ECUADOR, EL SALVADOR, GUATEMALA, MEXICO, NICARAGUA,

PANAMA, AND PERU.

TSUNAMI WAVES ARE NOT A HAZARD TO SHIPS IN DEEP WATER BUT CAN

CAUSE STRONG CURRENTS AND RAPID SEA LEVEL CHANGES IN SHALLOW

WATER AS WELL AS INUNDATION OF THE COAST.

SHIPS APPROACHING THE COAST SHOULD CONSULT LOCAL AUTHORITIES

REGARDING LOCAL CONDITIONS AND ADVICES.

***PTWS Threat Message #3***

TEST...TSUNAMI MESSAGE NUMBER 3...TEST

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1925 UTC TUE FEB 4 2025

...THIS MESSAGE IS FOR TEST PURPOSES ONLY...

...TEST PTWC TSUNAMI THREAT MESSAGE TEST...

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*\*

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 ONLY IN SUPPORT OF THE UNESCO/IOC PACIFIC TSUNAMI WARNING AND

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 COUNTRY OF THAT SYSTEM.

 THIS IS A TEST MESSAGE. NATIONAL AUTHORITIES WILL DETERMINE THE

 APPROPRIATE LEVEL OF ALERT FOR EACH COUNTRY AND MAY ISSUE

 ADDITIONAL OR MORE REFINED INFORMATION.

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*\*

THIS IS A TEST MESSAGE. THE TSUNAMI FORECAST IS UPDATED IN THIS

MESSAGE.

TEST... PRELIMINARY EARTHQUAKE PARAMETERS ...TEST

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 \* MAGNITUDE 8.6

 \* ORIGIN TIME 1844 UTC FEB 4 2025

 \* COORDINATES 13.6 NORTH 91.0 WEST

 \* DEPTH 10 KM / 6 MILES

 \* LOCATION NEAR THE COAST OF GUATEMALA

TEST... EVALUATION ...TEST

--------------------------

 \* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY

 MAGNITUDE OF 8.6 OCCURRED NEAR THE COAST OF GUATEMALA AT

 1844 UTC ON TUESDAY FEBRUARY 4 2025.

 \* THIS IS A TEST MESSAGE. BASED ON ALL AVAILABLE DATA...

 HAZARDOUS TSUNAMI WAVES ARE FORECAST FOR SOME COASTS.

TEST... TSUNAMI THREAT FORECAST...UPDATED ...TEST

-------------------------------------------------

 \* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING MORE THAN 3

 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE ALONG SOME COASTS

 OF

 EL SALVADOR... GUATEMALA... AND MEXICO.

 \* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING 1 TO 3 METERS

 ABOVE THE TIDE LEVEL ARE POSSIBLE ALONG SOME COASTS OF

 ANTARCTICA... COSTA RICA... ECUADOR... AND NICARAGUA.

 \* THIS IS A TEST MESSAGE. TSUNAMI WAVES REACHING 0.3 TO 1

 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE FOR SOME COASTS OF

 AMERICAN SAMOA... AUSTRALIA... CHILE... COLOMBIA... COOK

 ISLANDS... FIJI... FRENCH POLYNESIA... HAWAII...

 INDONESIA... JAPAN... KERMADEC ISLANDS... KIRIBATI...

 MARSHALL ISLANDS... NEW CALEDONIA... NEW ZEALAND...

 NIUE... NORTHWESTERN HAWAIIAN ISLANDS... PANAMA... PAPUA

 NEW GUINEA... PERU... PITCAIRN ISLANDS... SAMOA... SOLOMON

 ISLANDS... TOKELAU... TONGA... VANUATU... AND WALLIS AND

 FUTUNA.

 \* THIS IS A TEST MESSAGE. TSUNAMI WAVES ARE FORECAST TO BE LESS

 THAN 0.3 METERS ABOVE THE TIDE LEVEL FOR THE COASTS OF

 BRUNEI... CHINA... CHUUK... GUAM... HOWLAND AND BAKER...

 JARVIS ISLAND... JOHNSTON ATOLL... KOSRAE... MALAYSIA...

 MIDWAY ISLAND... NAURU... NORTHERN MARIANAS... PALAU...

 PALMYRA ISLAND... PHILIPPINES... POHNPEI... RUSSIA...

 TAIWAN... TUVALU... VIETNAM... WAKE ISLAND... AND YAP.

 \* THIS IS A TEST MESSAGE. ACTUAL AMPLITUDES AT THE COAST MAY

 VARY FROM FORECAST AMPLITUDES DUE TO UNCERTAINTIES IN THE

 FORECAST AND LOCAL FEATURES. IN PARTICULAR MAXIMUM TSUNAMI

 AMPLITUDES ON ATOLLS AND AT LOCATIONS WITH FRINGING OR

 BARRIER REEFS WILL LIKELY BE MUCH SMALLER THAN THE FORECAST

 INDICATES.

 \* THIS IS A TEST MESSAGE. FOR OTHER AREAS COVERED BY THIS

 PRODUCT A FORECAST HAS NOT YET BEEN COMPUTED. THE FORECAST

 WILL BE EXPANDED IF NECESSARY IN SUBSEQUENT PRODUCTS.

TEST... RECOMMENDED ACTIONS ...TEST

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 \* THIS IS A TEST MESSAGE. GOVERNMENT AGENCIES RESPONSIBLE FOR

 THREATENED COASTAL AREAS SHOULD TAKE ACTION TO INFORM AND

 INSTRUCT ANY COASTAL POPULATIONS AT RISK IN ACCORDANCE WITH

 THEIR OWN EVALUATION... PROCEDURES AND THE LEVEL OF THREAT.

 \* THIS IS A TEST MESSAGE. PERSONS LOCATED IN THREATENED COASTAL

 AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW

 INSTRUCTIONS FROM NATIONAL AND LOCAL AUTHORITIES.

TEST... ESTIMATED TIMES OF ARRIVAL ...TEST

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 \* THIS IS A TEST MESSAGE. ESTIMATED TIMES OF ARRIVAL -ETA- OF

 THE INITIAL TSUNAMI WAVE FOR PLACES WITHIN THREATENED

 REGIONS 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 WAVES CAN BE FIVE

 MINUTES TO ONE HOUR.

 LOCATION REGION COORDINATES ETA(UTC)

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 SIPACATE GUATEMALA 13.9N 91.2W 1915 02/04

 MONTERRICO SANT GUATEMALA 13.9N 90.5W 1918 02/04

 PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1923 02/04

 TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1924 02/04

 OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1938 02/04

 CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1941 02/04

 PUERTO MADERO MEXICO 14.8N 92.5W 1942 02/04

 ACAJUTLA EL SALVADOR 13.6N 89.8W 1948 02/04

 CABO SAN ELENA COSTA RICA 10.9N 86.0W 1949 02/04

 SALINA CRUZ MEXICO 16.5N 95.2W 2001 02/04

 CORINTO NICARAGUA 12.5N 87.2W 2001 02/04

 PUERTO SANDINO NICARAGUA 12.2N 86.8W 2001 02/04

 SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 2010 02/04

 ACAPULCO MEXICO 16.9N 99.9W 2012 02/04

 PUERTO QUEPOS COSTA RICA 9.4N 84.2W 2012 02/04

 ISLA DEL COCO COSTA RICA 5.5N 87.1W 2013 02/04

 CABO MATAPALO COSTA RICA 8.4N 83.3W 2017 02/04

 PUNTA BURICA PANAMA 8.0N 82.9W 2024 02/04

 LAZARO CARDENAS MEXICO 17.9N 102.2W 2033 02/04

 MANZANILLO MEXICO 19.1N 104.3W 2055 02/04

 PUNTA MALA PANAMA 7.5N 80.0W 2115 02/04

 PUERTO PINA PANAMA 7.4N 78.0W 2129 02/04

 BAHIA SOLANO COLOMBIA 6.3N 77.4W 2130 02/04

 BALTRA ISLAND ECUADOR 0.5S 90.3W 2132 02/04

 PUERTO VALLARTA MEXICO 20.6N 105.2W 2133 02/04

 ESMERELDAS ECUADOR 1.2N 79.8W 2145 02/04

 TUMACO COLOMBIA 1.8N 78.9W 2152 02/04

 SAN BLAS MEXICO 21.5N 105.3W 2153 02/04

 MAZATLAN MEXICO 23.2N 106.4W 2153 02/04

 CABO SAN LUCAS MEXICO 22.8N 110.0W 2155 02/04

 LA LIBERTAD ECUADOR 2.2S 81.2W 2208 02/04

 BUENAVENTURA COLOMBIA 3.8N 77.2W 2211 02/04

 TALARA PERU 4.6S 81.5W 2227 02/04

 PUNTA ABREOJOS MEXICO 26.7N 113.6W 2300 02/04

 BALBOA HEIGHTS PANAMA 9.0N 79.6W 2338 02/04

 PIMENTAL PERU 6.9S 80.0W 2341 02/04

 CHIMBOTE PERU 9.0S 78.8W 2356 02/04

 LA PUNTA PERU 12.1S 77.2W 2357 02/04

 ENSENADA MEXICO 31.8N 116.8W 0001 02/05

 SAN JUAN PERU 15.3S 75.2W 0013 02/05

 MOLLENDO PERU 17.1S 72.0W 0047 02/05

 ARICA CHILE 18.5S 70.3W 0103 02/05

 IQUIQUE CHILE 20.2S 70.1W 0105 02/05

 ANTOFAGASTA CHILE 23.3S 70.4W 0120 02/05

 CALDERA CHILE 27.1S 70.8W 0149 02/05

 EASTER ISLAND CHILE 27.1S 109.4W 0152 02/05

 COQUIMBO CHILE 29.9S 71.4W 0213 02/05

 VALPARAISO CHILE 33.0S 71.6W 0238 02/05

 HIVA OA FRENCH POLYNESIA 10.0S 139.0W 0259 02/05

 TALCAHUANO CHILE 36.7S 73.1W 0322 02/05

 PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 0329 02/05

 RIKITEA FRENCH POLYNESIA 23.1S 135.0W 0345 02/05

 HILO HAWAII 19.7N 155.1W 0346 02/05

 CORRAL CHILE 39.8S 73.5W 0351 02/05

 KAHULUI HAWAII 20.9N 156.5W 0419 02/05

 NAWILIWILI HAWAII 22.0N 159.4W 0424 02/05

 HONOLULU HAWAII 21.3N 157.9W 0424 02/05

 FLINT ISLAND KIRIBATI 11.4S 151.8W 0436 02/05

 CHRISTMAS ISLAN KIRIBATI 2.0N 157.5W 0443 02/05

 MALDEN ISLAND KIRIBATI 3.9S 154.9W 0445 02/05

 NIHOA NORTHWEST HAWAII 23.1N 161.9W 0446 02/05

 PAPEETE FRENCH POLYNESIA 17.5S 149.6W 0500 02/05

 GOLFO DE PENAS CHILE 47.1S 74.9W 0506 02/05

 NECKER NORTHWEST HAWAII 23.6N 164.7W 0509 02/05

 RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 0509 02/05

 PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0515 02/05

 TUBUAI FRENCH POLYNESIA 23.3S 149.5W 0519 02/05

 FRENCH FRIGATE NORTHWEST HAWAII 23.9N 166.3W 0521 02/05

 LAYSAN NORTHWEST HAWAII 25.8N 171.7W 0600 02/05

 LISIANSKI NORTHWEST HAWAII 26.1N 174.0W 0615 02/05

 RAROTONGA COOK ISLANDS 21.2S 159.8W 0619 02/05

 PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0630 02/05

 PUERTO MONTT CHILE 41.5S 73.0W 0646 02/05

 NUKUNONU ISLAND TOKELAU 9.2S 171.8W 0711 02/05

 NIUE ISLAND NIUE 19.0S 170.0W 0714 02/05

 PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0715 02/05

 APIA SAMOA 13.8S 171.8W 0723 02/05

 NIUATOPUTAPU TONGA 15.9S 173.8W 0744 02/05

 HOLEVA TONGA 18.6S 173.9W 0748 02/05

 WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0801 02/05

 NUKUALOFA TONGA 21.0S 175.2W 0812 02/05

 MAJURO MARSHALL ISLANDS 7.1N 171.4E 0822 02/05

 FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0824 02/05

 RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 0850 02/05

 KWAJALEIN MARSHALL ISLANDS 8.7N 167.7E 0853 02/05

 LOTTIN POINT NEW ZEALAND 37.5S 178.2E 0943 02/05

 SUVA FIJI 18.1S 178.4E 0944 02/05

 ENIWETOK MARSHALL ISLANDS 11.4N 162.3E 0948 02/05

 KUSHIRO JAPAN 42.9N 144.3E 0959 02/05

 KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 0959 02/05

 GISBORNE NEW ZEALAND 38.7S 178.0E 1002 02/05

 WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1011 02/05

 MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1014 02/05

 ESPERITU SANTO VANUATU 15.1S 167.3E 1020 02/05

 PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1021 02/05

 NORTH CAPE NEW ZEALAND 34.4S 173.3E 1022 02/05

 EAST CAPE NEW ZEALAND 37.7S 178.5E 1024 02/05

 SANTA CRUZ ISLA SOLOMON ISLANDS 10.9S 165.9E 1026 02/05

 WHANGAREI NEW ZEALAND 35.8S 174.5E 1033 02/05

 HACHINOHE JAPAN 40.5N 141.5E 1034 02/05

 KIRAKIRA SOLOMON ISLANDS 10.4S 161.9E 1034 02/05

 NAPIER NEW ZEALAND 39.5S 176.9E 1035 02/05

 ANATOM ISLAND VANUATU 20.2S 169.9E 1039 02/05

 KATSUURA JAPAN 35.1N 140.3E 1043 02/05

 MARE ISL NEW CALEDONIA 21.6S 167.8E 1052 02/05

 WELLINGTON NEW ZEALAND 41.3S 174.8E 1052 02/05

 LIFOU ISL NEW CALEDONIA 20.9S 167.3E 1055 02/05

 PICTON NEW ZEALAND 41.3S 174.0E 1101 02/05

 AUKI SOLOMON ISLANDS 8.8S 160.6E 1106 02/05

 MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1107 02/05

 OUINNE NEW CALEDONIA 22.0S 166.8E 1112 02/05

 GHATERE SOLOMON ISLANDS 7.8S 159.2E 1113 02/05

 HIENGHENE NEW CALEDONIA 20.6S 165.0E 1121 02/05

 PANGGOE SOLOMON ISLANDS 6.9S 157.2E 1126 02/05

 DUNEDIN NEW ZEALAND 45.9S 170.5E 1130 02/05

 HONIARA SOLOMON ISLANDS 9.3S 160.0E 1130 02/05

 AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1133 02/05

 NOUMEA NEW CALEDONIA 22.3S 166.5E 1135 02/05

 CAPE ADARE ANTARCTICA 71.0S 170.0E 1144 02/05

 KIETA PAPUA NEW GUINEA 6.1S 155.6E 1146 02/05

 MUNDA SOLOMON ISLANDS 8.4S 157.2E 1148 02/05

 FALAMAE SOLOMON ISLANDS 7.4S 155.6E 1152 02/05

 AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1153 02/05

 SHIMIZU JAPAN 32.8N 133.0E 1208 02/05

 AMUN PAPUA NEW GUINEA 6.0S 154.7E 1210 02/05

 NOBEOKA JAPAN 32.5N 131.8E 1213 02/05

 WANGANUI NEW ZEALAND 39.9S 175.0E 1215 02/05

 KAVIENG PAPUA NEW GUINEA 2.5S 150.7E 1215 02/05

 LYTTELTON NEW ZEALAND 43.6S 172.7E 1227 02/05

 NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1234 02/05

 STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1242 02/05

 TIMARU NEW ZEALAND 44.4S 171.3E 1242 02/05

 MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1312 02/05

 NELSON NEW ZEALAND 41.3S 173.3E 1313 02/05

 JAYAPURA INDONESIA 2.4S 140.8E 1314 02/05

 WESTPORT NEW ZEALAND 41.8S 171.6E 1317 02/05

 GREYMOUTH NEW ZEALAND 42.5S 171.2E 1332 02/05

 BLUFF NEW ZEALAND 46.6S 168.3E 1334 02/05

 JACKSON BAY NEW ZEALAND 44.0S 168.6E 1345 02/05

 WARSA INDONESIA 0.6S 135.8E 1351 02/05

 MANOKWARI INDONESIA 0.8S 134.2E 1358 02/05

 BEREBERE INDONESIA 2.5N 128.7E 1407 02/05

 HOBART AUSTRALIA 43.3S 147.6E 1408 02/05

 SORONG INDONESIA 0.8S 131.1E 1416 02/05

 PATANI INDONESIA 0.4N 128.8E 1431 02/05

TEST... POTENTIAL IMPACTS ...TEST

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 \* THIS IS A TEST MESSAGE. A TSUNAMI IS A SERIES OF WAVES. THE

 TIME BETWEEN WAVE CRESTS CAN VARY FROM 5 MINUTES TO AN HOUR.

 THE HAZARD MAY PERSIST FOR MANY HOURS OR LONGER AFTER THE

 INITIAL WAVE.

 \* THIS IS A TEST MESSAGE. IMPACTS CAN VARY SIGNIFICANTLY FROM

 ONE SECTION OF COAST TO THE NEXT DUE TO LOCAL BATHYMETRY AND

 THE SHAPE AND ELEVATION OF THE SHORELINE.

 \* THIS IS A TEST MESSAGE. IMPACTS CAN ALSO VARY DEPENDING UPON

 THE STATE OF THE TIDE AT THE TIME OF THE MAXIMUM TSUNAMI

 WAVES.

 \* THIS IS A TEST MESSAGE. PERSONS CAUGHT IN THE WATER OF A

 TSUNAMI MAY DROWN... BE CRUSHED BY DEBRIS IN THE WATER... OR

 BE SWEPT OUT TO SEA.

TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

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 \* THIS IS A TEST MESSAGE. THE NEXT MESSAGE WILL BE ISSUED IN

 ONE HOUR... OR SOONER IF THE SITUATION WARRANTS.

 \* THIS IS A TEST MESSAGE. AUTHORITATIVE INFORMATION ABOUT THE

 EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON

 THE INTERNET AT EARTHQUAKE.USGS.GOV.

 \* THIS IS A TEST MESSAGE. FURTHER INFORMATION ABOUT THIS EVENT

 MAY BE FOUND AT WWW.TSUNAMI.GOV.

 \* THIS IS A TEST MESSAGE. COASTAL REGIONS OF HAWAII... AMERICAN

 SAMOA... GUAM... AND CNMI SHOULD REFER TO PACIFIC TSUNAMI

 WARNING CENTER MESSAGES SPECIFICALLY FOR THOSE PLACES THAT

 CAN BE FOUND AT WWW.TSUNAMI.GOV.

 \* THIS IS A TEST MESSAGE. COASTAL REGIONS OF CALIFORNIA...

 OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD

 ONLY REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGES

 THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST

MESSAGE.

$$

***Maritime Threat Message #2***

MARITIME TSUNAMI THREAT MESSAGE NUMBER 02

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1905 UTC TUE FEB 4 2025

THIS MESSAGE IS FOR NAVAREA X, NAVAREA XI, NAVAREA XII, NAVAREA

XIV, NAVAREA XV, AND NAVAREA XVI.

A TSUNAMI THREAT IS OCCURING.

A TSUNAMI WAS GENERATED BY AN EARTHQUAKE WITH A PRELIMINARY

MAGNITUDE OF 8.6 THAT OCCURRED NEAR THE COAST OF GUATEMALA

AT 1844 UTC ON TUESDAY FEBRUARY 4 2025.

HAZARDOUS TSUNAMI WAVES ARE FORECAST FOR SOME COASTS OF AMERICAN

SAMOA, ANTARCTICA, AUSTRALIA, CHILE, COLOMBIA, COOK ISLANDS,

COSTA RICA, ECUADOR, EL SALVADOR, FIJI, FRENCH POLYNESIA,

GUATEMALA, HAWAII, INDONESIA, JAPAN, KERMADEC ISLANDS, KIRIBATI,

MARSHALL ISLANDS, MEXICO, NEW CALEDONIA, NEW ZEALAND, NICARAGUA,

NIUE, NORTHWESTERN HAWAIIAN ISLANDS, PANAMA, PAPUA NEW GUINEA,

PERU, PITCAIRN ISLANDS, SAMOA, SOLOMON ISLANDS, TOKELAU, TONGA,

VANUATU, AND WALLIS AND FUTUNA.

TSUNAMI WAVES ARE NOT A HAZARD TO SHIPS IN DEEP WATER BUT CAN

CAUSE STRONG CURRENTS AND RAPID SEA LEVEL CHANGES IN SHALLOW

WATER AS WELL AS INUNDATION OF THE COAST.

SHIPS APPROACHING THE COAST SHOULD CONSULT LOCAL AUTHORITIES

REGARDING LOCAL CONDITIONS AND ADVICES.

***PTWS Final Threat Message #23***

TEST...TSUNAMI MESSAGE NUMBER 23...TEST

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1525 UTC TUE FEB 5 2025

...THIS MESSAGE IS FOR TEST PURPOSES ONLY...

...TEST PTWC FINAL TSUNAMI THREAT MESSAGE TEST...

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*\*

 THIS IS A TEST MESSAGE. THIS MESSAGE IS ISSUED FOR INFORMATION

 ONLY IN SUPPORT OF THE UNESCO/IOC PACIFIC TSUNAMI WARNING AND

 MITIGATION SYSTEM AND IS MEANT FOR NATIONAL AUTHORITIES IN EACH

 COUNTRY OF THAT SYSTEM.

 THIS IS A TEST MESSAGE. NATIONAL AUTHORITIES WILL DETERMINE THE

 APPROPRIATE LEVEL OF ALERT FOR EACH COUNTRY AND MAY ISSUE

 ADDITIONAL OR MORE REFINED INFORMATION.

\*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\* NOTICE \*\*\*\*\*

TEST... PRELIMINARY EARTHQUAKE PARAMETERS ...TEST

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 \* MAGNITUDE 8.6

 \* ORIGIN TIME 1844 UTC FEB 4 2025

 \* COORDINATES 13.6 NORTH 91.0 WEST

 \* DEPTH 10 KM / 6 MILES

 \* LOCATION NEAR THE COAST OF GUATEMALA

TEST... EVALUATION ...TEST

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 \* THIS IS A TEST MESSAGE. AN EARTHQUAKE WITH A PRELIMINARY

 MAGNITUDE OF 8.6 OCCURRED NEAR THE COAST OF GUATEMALA AT

 1844 UTC ON TUESDAY FEBRUARY 4 2025.

 \* THIS IS A TEST MESSAGE. BASED ON ALL AVAILABLE DATA... THE

 TSUNAMI THREAT FROM THIS EARTHQUAKE HAS NOW PASSED.

TEST... TSUNAMI THREAT FORECAST...UPDATED ...TEST

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 \* THIS IS A TEST MESSAGE. THE TSUNAMI THREAT HAS NOW LARGELY

 PASSED.

TEST... RECOMMENDED ACTIONS ...TEST

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 \* THIS IS A TEST MESSAGE. GOVERNMENT AGENCIES RESPONSIBLE FOR

 ANY IMPACTED COASTAL AREAS SHOULD MONITOR CONDITIONS AT THE

 COAST TO DETERMINE IF AND WHEN IT IS SAFE TO RESUME NORMAL

 ACTIVITIES.

 \* THIS IS A TEST MESSAGE. PERSONS LOCATED NEAR IMPACTED COASTAL

 AREAS SHOULD STAY ALERT FOR INFORMATION AND FOLLOW

 INSTRUCTIONS FROM LOCAL AUTHORITIES.

 \* THIS IS A TEST MESSAGE. REMAIN OBSERVANT AND EXERCISE NORMAL

 CAUTION NEAR THE SEA.

TEST... POTENTIAL IMPACTS ...TEST

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 \* THIS IS A TEST MESSAGE. MINOR SEA LEVEL FLUCTUATIONS OF UP TO

 0.3 METERS ABOVE AND BELOW THE NORMAL TIDE MAY CONTINUE OVER

 THE NEXT FEW HOURS.

TEST... NEXT UPDATE AND ADDITIONAL INFORMATION ...TEST

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 \* THIS IS A TEST MESSAGE. THIS WILL BE THE FINAL STATEMENT

 ISSUED FOR THIS EVENT UNLESS NEW INFORMATION IS RECEIVED OR

 THE SITUATION CHANGES.

 \* THIS IS A TEST MESSAGE. AUTHORITATIVE INFORMATION ABOUT THE

 EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON

 THE INTERNET AT EARTHQUAKE.USGS.GOV.

 \* THIS IS A TEST MESSAGE. FURTHER INFORMATION ABOUT THIS EVENT

 MAY BE FOUND AT WWW.TSUNAMI.GOV.

 \* THIS IS A TEST MESSAGE. COASTAL REGIONS OF HAWAII... AMERICAN

 SAMOA... GUAM... AND CNMI SHOULD REFER TO PACIFIC TSUNAMI

 WARNING CENTER MESSAGES SPECIFICALLY FOR THOSE PLACES THAT

 CAN BE FOUND AT WWW.TSUNAMI.GOV.

 \* THIS IS A TEST MESSAGE. COASTAL REGIONS OF CALIFORNIA...

 OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD

 ONLY REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGES

 THAT CAN BE FOUND AT WWW.TSUNAMI.GOV.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST

MESSAGE.

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***Final Maritime Final Message #3***

MARITIME TSUNAMI THREAT MESSAGE NUMBER 03

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1525 UTC TUE FEB 5 2025

THIS MESSAGE IS FOR NAVAREA X, NAVAREA XI, NAVAREA XII, NAVAREA

XIV, NAVAREA XV, AND NAVAREA XVI.

THE TSUNAMI THREAT HAS NOW LARGELY PASSED.

THE TSUNAMI THREAT FROM AN EARTHQUAKE WITH A PRELIMINARY

MAGNITUDE OF 8.6 THAT OCCURRED NEAR THE COAST OF GUATEMALA

AT 1844 UTC ON TUESDAY FEBRUARY 4 2025 HAS NOW LARGELY PASSED.

HOWEVER, SHIPS APPROACHING THE COAST SHOULD STILL CONSULT LOCAL

AUTHORITIES REGARDING LOCAL CONDITIONS AND ADVICES.