TSUNAMI MESSAGE NUMBER 1

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

2334 UTC TUE JUL 29 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.0

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.0 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* BASED ON THE PRELIMINARY EARTHQUAKE PARAMETERS... WIDESPREAD

HAZARDOUS TSUNAMI WAVES ARE POSSIBLE.

TSUNAMI THREAT FORECAST

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\* HAZARDOUS TSUNAMI WAVES FROM THIS EARTHQUAKE ARE POSSIBLE

WITHIN THE NEXT THREE HOURS ALONG SOME COASTS OF

RUSSIA AND JAPAN

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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PETROPAVLOVSK RUSSIA 53.2N 159.6E 2358 07/29

UST KAMCHATSK RUSSIA 56.1N 162.6E 0012 07/30

MEDNNY ISLAND RUSSIA 54.7N 167.4E 0035 07/30

OSTROV KARAGINS RUSSIA 58.8N 164.5E 0040 07/30

URUP ISLAND RUSSIA 46.1N 150.5E 0047 07/30

SEVERO KURILSK RUSSIA 50.8N 156.1E 0110 07/30

KUSHIRO JAPAN 42.9N 144.3E 0132 07/30

HACHINOHE JAPAN 40.5N 141.5E 0212 07/30

KATSUURA JAPAN 35.1N 140.3E 0222 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 2

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0016 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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UNESCO/IOC PACIFIC TSUNAMI WARNING AND MITIGATION SYSTEM AND IS

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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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UPDATED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.7

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

----------

\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.7 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST...UPDATED

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

GUAM... HAWAII... JAPAN... JOHNSTON ATOLL... MIDWAY

ISLAND... NORTHERN MARIANAS... AND PALMYRA ISLAND.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

CHUUK... KOSRAE... MARSHALL ISLANDS... PALAU...

PHILIPPINES... POHNPEI... WAKE ISLAND... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

DPR OF KOREA... REPUBLIC OF KOREA... AND TAIWAN.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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

\* 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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PETROPAVLOVSK RUSSIA 53.2N 159.6E 2358 07/29

UST KAMCHATSK RUSSIA 56.1N 162.6E 0012 07/30

MEDNNY ISLAND RUSSIA 54.7N 167.4E 0035 07/30

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SEVERO KURILSK RUSSIA 50.8N 156.1E 0110 07/30

KUSHIRO JAPAN 42.9N 144.3E 0132 07/30

HACHINOHE JAPAN 40.5N 141.5E 0212 07/30

KATSUURA JAPAN 35.1N 140.3E 0222 07/30

HACHIJO JIMA JAPAN 33.1N 139.8E 0234 07/30

CHICHI JIMA JAPAN 27.0N 142.2E 0303 07/30

MINAMITORISHIMA MINAMITORISHIMA 24.3N 154.0E 0311 07/30

MIDWAY ISLAND MIDWAY ISLAND 28.2N 177.4W 0327 07/30

GASTELLO RUSSIA 49.1N 143.0E 0339 07/30

SAPPORO JAPAN 43.5N 141.0E 0340 07/30

SHIMIZU JAPAN 32.8N 133.0E 0344 07/30

WAKE ISLAND WAKE ISLAND 19.3N 166.6E 0350 07/30

NOBEOKA JAPAN 32.5N 131.8E 0350 07/30

LISIANSKI NORTHWEST HAWAII 26.1N 174.0W 0355 07/30

NIIGATA JAPAN 38.0N 139.0E 0359 07/30

LAYSAN NORTHWEST HAWAII 25.8N 171.7W 0402 07/30

FRENCH FRIGATE NORTHWEST HAWAII 23.9N 166.3W 0432 07/30

SAIPAN NORTHERN MARIANA 15.3N 145.8E 0436 07/30

NECKER NORTHWEST HAWAII 23.6N 164.7W 0439 07/30

NIHOA NORTHWEST HAWAII 23.1N 161.9W 0454 07/30

GUAM GUAM 13.4N 144.7E 0457 07/30

SHIMANE JAPAN 35.8N 133.0E 0458 07/30

OKINAWA JAPAN 26.2N 127.8E 0500 07/30

ENIWETOK MARSHALL ISLANDS 11.4N 162.3E 0509 07/30

NAWILIWILI HAWAII 22.0N 159.4W 0517 07/30

JOHNSTON ISLAND JOHNSTON ISLAND 16.7N 169.5W 0520 07/30

KWAJALEIN MARSHALL ISLANDS 8.7N 167.7E 0521 07/30

HONOLULU HAWAII 21.3N 157.9W 0531 07/30

YAP ISLAND YAP 9.5N 138.1E 0532 07/30

NAGASAKI JAPAN 32.7N 129.7E 0533 07/30

KAHULUI HAWAII 20.9N 156.5W 0537 07/30

PALANAN PHILIPPINES 17.1N 122.6E 0542 07/30

POHNPEI ISLAND POHNPEI 7.0N 158.2E 0542 07/30

MAJURO MARSHALL ISLANDS 7.1N 171.4E 0543 07/30

KOSRAE ISLAND KOSRAE 5.5N 163.0E 0543 07/30

HILO HAWAII 19.7N 155.1W 0555 07/30

LAOAG PHILIPPINES 18.2N 120.6E 0607 07/30

CHUUK ISLAND CHUUK 7.4N 151.8E 0612 07/30

MALAKAL PALAU 7.3N 134.5E 0612 07/30

LEGASPI PHILIPPINES 13.2N 123.8E 0613 07/30

SAN FERNANDO PHILIPPINES 16.6N 120.3E 0627 07/30

DAVAO PHILIPPINES 6.8N 125.7E 0640 07/30

PALMYRA ISLAND PALMYRA ISLAND 5.9N 162.1W 0707 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

POTENTIAL IMPACTS

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\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

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NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND

AT WWW.TSUNAMI.GOV.

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TSUNAMI MESSAGE NUMBER 3

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0107 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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THE TSUNAMI FORECAST IS UPDATED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* DEPTH 74 KM / 46 MILES

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EVALUATION

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OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST...UPDATED

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... HAWAII... JAPAN... NORTHWESTERN HAWAIIAN

ISLANDS... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

AMERICAN SAMOA... ANTARCTICA... CHUUK... COLOMBIA... COOK

ISLANDS... COSTA RICA... EL SALVADOR... FIJI... FRENCH

POLYNESIA... GUAM... GUATEMALA... HOWLAND AND BAKER...

INDONESIA... JARVIS ISLAND... JOHNSTON ATOLL... KERMADEC

ISLANDS... KIRIBATI... KOSRAE... MARSHALL ISLANDS...

MEXICO... MIDWAY ISLAND... NAURU... NEW CALEDONIA... NEW

ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PALMYRA ISLAND... PANAMA... PAPUA NEW GUINEA...

PERU... PHILIPPINES... PITCAIRN ISLANDS... POHNPEI...

SAMOA... TAIWAN... TOKELAU... TONGA... TUVALU...

VANUATU... WAKE ISLAND... WALLIS AND FUTUNA... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

AUSTRALIA... BRUNEI... CHINA... DPR OF KOREA... MALAYSIA...

REPUBLIC OF KOREA... AND VIETNAM.

\* 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

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NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* ESTIMATED TIMES OF ARRIVAL -ETA- OF THE INITIAL TSUNAMI WAVE

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LOCATION REGION COORDINATES ETA(UTC)

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UST KAMCHATSK RUSSIA 56.1N 162.6E 0012 07/30

MEDNNY ISLAND RUSSIA 54.7N 167.4E 0035 07/30

OSTROV KARAGINS RUSSIA 58.8N 164.5E 0040 07/30

URUP ISLAND RUSSIA 46.1N 150.5E 0047 07/30

SEVERO KURILSK RUSSIA 50.8N 156.1E 0110 07/30

KUSHIRO JAPAN 42.9N 144.3E 0132 07/30

HACHINOHE JAPAN 40.5N 141.5E 0212 07/30

KATSUURA JAPAN 35.1N 140.3E 0222 07/30

HACHIJO JIMA JAPAN 33.1N 139.8E 0234 07/30

CHICHI JIMA JAPAN 27.0N 142.2E 0303 07/30

MINAMITORISHIMA MINAMITORISHIMA 24.3N 154.0E 0311 07/30

MIDWAY ISLAND MIDWAY ISLAND 28.2N 177.4W 0327 07/30

GASTELLO RUSSIA 49.1N 143.0E 0339 07/30

SAPPORO JAPAN 43.5N 141.0E 0340 07/30

SHIMIZU JAPAN 32.8N 133.0E 0344 07/30

WAKE ISLAND WAKE ISLAND 19.3N 166.6E 0350 07/30

NOBEOKA JAPAN 32.5N 131.8E 0350 07/30

LISIANSKI NORTHWEST HAWAII 26.1N 174.0W 0355 07/30

NIIGATA JAPAN 38.0N 139.0E 0359 07/30

LAYSAN NORTHWEST HAWAII 25.8N 171.7W 0402 07/30

FRENCH FRIGATE NORTHWEST HAWAII 23.9N 166.3W 0432 07/30

SAIPAN NORTHERN MARIANA 15.3N 145.8E 0436 07/30

NECKER NORTHWEST HAWAII 23.6N 164.7W 0439 07/30

NIHOA NORTHWEST HAWAII 23.1N 161.9W 0454 07/30

GUAM GUAM 13.4N 144.7E 0457 07/30

SHIMANE JAPAN 35.8N 133.0E 0458 07/30

OKINAWA JAPAN 26.2N 127.8E 0500 07/30

ENIWETOK MARSHALL ISLANDS 11.4N 162.3E 0509 07/30

NAWILIWILI HAWAII 22.0N 159.4W 0517 07/30

HUALIEN TAIWAN 24.0N 121.7E 0519 07/30

JOHNSTON ISLAND JOHNSTON ISLAND 16.7N 169.5W 0520 07/30

KWAJALEIN MARSHALL ISLANDS 8.7N 167.7E 0521 07/30

TAITUNG TAIWAN 22.7N 121.2E 0524 07/30

HONOLULU HAWAII 21.3N 157.9W 0531 07/30

YAP ISLAND YAP 9.5N 138.1E 0532 07/30

NAGASAKI JAPAN 32.7N 129.7E 0533 07/30

KAHULUI HAWAII 20.9N 156.5W 0537 07/30

PALANAN PHILIPPINES 17.1N 122.6E 0542 07/30

POHNPEI ISLAND POHNPEI 7.0N 158.2E 0542 07/30

MAJURO MARSHALL ISLANDS 7.1N 171.4E 0543 07/30

KOSRAE ISLAND KOSRAE 5.5N 163.0E 0543 07/30

CHILUNG TAIWAN 25.2N 121.8E 0552 07/30

HILO HAWAII 19.7N 155.1W 0555 07/30

KAOHSIUNG TAIWAN 22.5N 120.3E 0606 07/30

LAOAG PHILIPPINES 18.2N 120.6E 0607 07/30

CHUUK ISLAND CHUUK 7.4N 151.8E 0612 07/30

MALAKAL PALAU 7.3N 134.5E 0612 07/30

LEGASPI PHILIPPINES 13.2N 123.8E 0613 07/30

SAN FERNANDO PHILIPPINES 16.6N 120.3E 0627 07/30

GEME INDONESIA 4.6N 126.8E 0636 07/30

NAURU NAURU 0.5S 166.9E 0640 07/30

DAVAO PHILIPPINES 6.8N 125.7E 0640 07/30

BEREBERE INDONESIA 2.5N 128.7E 0645 07/30

HOWLAND ISLAND HOWLAND AND BAKE 0.6N 176.6W 0654 07/30

WARSA INDONESIA 0.6S 135.8E 0657 07/30

TABUKAN TENGAH INDONESIA 3.6N 125.6E 0702 07/30

KAVIENG PAPUA NEW GUINEA 2.5S 150.7E 0703 07/30

MANUS ISLAND PAPUA NEW GUINEA 2.0S 147.5E 0704 07/30

MANOKWARI INDONESIA 0.8S 134.2E 0705 07/30

PALMYRA ISLAND PALMYRA ISLAND 5.9N 162.1W 0707 07/30

PATANI INDONESIA 0.4N 128.8E 0711 07/30

VANIMO PAPUA NEW GUINEA 2.6S 141.3E 0718 07/30

JAYAPURA INDONESIA 2.4S 140.8E 0719 07/30

SORONG INDONESIA 0.8S 131.1E 0722 07/30

MANADO INDONESIA 1.6N 124.9E 0723 07/30

WEWAK PAPUA NEW GUINEA 3.5S 143.6E 0730 07/30

RABAUL PAPUA NEW GUINEA 4.2S 152.3E 0733 07/30

KANTON ISLAND KIRIBATI 2.8S 171.7W 0733 07/30

KIETA PAPUA NEW GUINEA 6.1S 155.6E 0744 07/30

FUNAFUTI ISLAND TUVALU 7.9S 178.5E 0744 07/30

ULAMONA PAPUA NEW GUINEA 5.0S 151.2E 0746 07/30

HOMEL TAIWAN 24.2N 120.4E 0750 07/30

AMUN PAPUA NEW GUINEA 6.0S 154.7E 0751 07/30

CHRISTMAS ISLAN KIRIBATI 2.0N 157.5W 0751 07/30

MADANG PAPUA NEW GUINEA 5.2S 145.8E 0759 07/30

PANGGOE SOLOMON ISLANDS 6.9S 157.2E 0800 07/30

JARVIS ISLAND JARVIS ISLAND 0.4S 160.1W 0801 07/30

FALAMAE SOLOMON ISLANDS 7.4S 155.6E 0802 07/30

WOODLARK ISLAND PAPUA NEW GUINEA 9.0S 152.9E 0803 07/30

GHATERE SOLOMON ISLANDS 7.8S 159.2E 0812 07/30

MUNDA SOLOMON ISLANDS 8.4S 157.2E 0818 07/30

AUKI SOLOMON ISLANDS 8.8S 160.6E 0819 07/30

NUKUNONU ISLAND TOKELAU 9.2S 171.8W 0821 07/30

KIRAKIRA SOLOMON ISLANDS 10.4S 161.9E 0822 07/30

ENSENADA MEXICO 31.8N 116.8W 0822 07/30

LAE PAPUA NEW GUINEA 6.8S 147.0E 0833 07/30

SANTA CRUZ ISLA SOLOMON ISLANDS 10.9S 165.9E 0835 07/30

WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0841 07/30

HONIARA SOLOMON ISLANDS 9.3S 160.0E 0845 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

MALDEN ISLAND KIRIBATI 3.9S 154.9W 0846 07/30

PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0853 07/30

FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0854 07/30

APIA SAMOA 13.8S 171.8W 0858 07/30

PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0905 07/30

ESPERITU SANTO VANUATU 15.1S 167.3E 0907 07/30

PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0908 07/30

PUNTA ABREOJOS MEXICO 26.7N 113.6W 0912 07/30

NIUATOPUTAPU TONGA 15.9S 173.8W 0915 07/30

NIUE ISLAND NIUE 19.0S 170.0W 0940 07/30

HOLEVA TONGA 18.6S 173.9W 0941 07/30

CABO SAN LUCAS MEXICO 22.8N 110.0W 0950 07/30

HIENGHENE NEW CALEDONIA 20.6S 165.0E 0951 07/30

FLINT ISLAND KIRIBATI 11.4S 151.8W 0951 07/30

ANATOM ISLAND VANUATU 20.2S 169.9E 0956 07/30

LIFOU ISL NEW CALEDONIA 20.9S 167.3E 0956 07/30

SUVA FIJI 18.1S 178.4E 0957 07/30

MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 4

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0148 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UPDATED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.7

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.7 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST...UPDATED

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... GUAM... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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SEVERO KURILSK RUSSIA 50.8N 156.1E 0110 07/30

KUSHIRO JAPAN 42.9N 144.3E 0132 07/30

HACHINOHE JAPAN 40.5N 141.5E 0212 07/30

KATSUURA JAPAN 35.1N 140.3E 0222 07/30

HACHIJO JIMA JAPAN 33.1N 139.8E 0234 07/30

CHICHI JIMA JAPAN 27.0N 142.2E 0303 07/30

MINAMITORISHIMA MINAMITORISHIMA 24.3N 154.0E 0311 07/30

MIDWAY ISLAND MIDWAY ISLAND 28.2N 177.4W 0327 07/30

GASTELLO RUSSIA 49.1N 143.0E 0339 07/30

SAPPORO JAPAN 43.5N 141.0E 0340 07/30

SHIMIZU JAPAN 32.8N 133.0E 0344 07/30

WAKE ISLAND WAKE ISLAND 19.3N 166.6E 0350 07/30

NOBEOKA JAPAN 32.5N 131.8E 0350 07/30

LISIANSKI NORTHWEST HAWAII 26.1N 174.0W 0355 07/30

NIIGATA JAPAN 38.0N 139.0E 0359 07/30

LAYSAN NORTHWEST HAWAII 25.8N 171.7W 0402 07/30

FRENCH FRIGATE NORTHWEST HAWAII 23.9N 166.3W 0432 07/30

SAIPAN NORTHERN MARIANA 15.3N 145.8E 0436 07/30

NECKER NORTHWEST HAWAII 23.6N 164.7W 0439 07/30

NIHOA NORTHWEST HAWAII 23.1N 161.9W 0454 07/30

GUAM GUAM 13.4N 144.7E 0457 07/30

SHIMANE JAPAN 35.8N 133.0E 0458 07/30

OKINAWA JAPAN 26.2N 127.8E 0500 07/30

ENIWETOK MARSHALL ISLANDS 11.4N 162.3E 0509 07/30

NAWILIWILI HAWAII 22.0N 159.4W 0517 07/30

HUALIEN TAIWAN 24.0N 121.7E 0519 07/30

JOHNSTON ISLAND JOHNSTON ISLAND 16.7N 169.5W 0520 07/30

KWAJALEIN MARSHALL ISLANDS 8.7N 167.7E 0521 07/30

TAITUNG TAIWAN 22.7N 121.2E 0524 07/30

HONOLULU HAWAII 21.3N 157.9W 0531 07/30

YAP ISLAND YAP 9.5N 138.1E 0532 07/30

NAGASAKI JAPAN 32.7N 129.7E 0533 07/30

KAHULUI HAWAII 20.9N 156.5W 0537 07/30

PALANAN PHILIPPINES 17.1N 122.6E 0542 07/30

POHNPEI ISLAND POHNPEI 7.0N 158.2E 0542 07/30

MAJURO MARSHALL ISLANDS 7.1N 171.4E 0543 07/30

KOSRAE ISLAND KOSRAE 5.5N 163.0E 0543 07/30

CHILUNG TAIWAN 25.2N 121.8E 0552 07/30

HILO HAWAII 19.7N 155.1W 0555 07/30

KAOHSIUNG TAIWAN 22.5N 120.3E 0606 07/30

LAOAG PHILIPPINES 18.2N 120.6E 0607 07/30

CHUUK ISLAND CHUUK 7.4N 151.8E 0612 07/30

MALAKAL PALAU 7.3N 134.5E 0612 07/30

LEGASPI PHILIPPINES 13.2N 123.8E 0613 07/30

SAN FERNANDO PHILIPPINES 16.6N 120.3E 0627 07/30

GEME INDONESIA 4.6N 126.8E 0636 07/30

NAURU NAURU 0.5S 166.9E 0640 07/30

DAVAO PHILIPPINES 6.8N 125.7E 0640 07/30

BEREBERE INDONESIA 2.5N 128.7E 0645 07/30

HOWLAND ISLAND HOWLAND AND BAKE 0.6N 176.6W 0654 07/30

WARSA INDONESIA 0.6S 135.8E 0657 07/30

TABUKAN TENGAH INDONESIA 3.6N 125.6E 0702 07/30

KAVIENG PAPUA NEW GUINEA 2.5S 150.7E 0703 07/30

MANUS ISLAND PAPUA NEW GUINEA 2.0S 147.5E 0704 07/30

MANOKWARI INDONESIA 0.8S 134.2E 0705 07/30

PALMYRA ISLAND PALMYRA ISLAND 5.9N 162.1W 0707 07/30

PATANI INDONESIA 0.4N 128.8E 0711 07/30

COTABUTO CITY PHILIPPINES 7.2N 124.2E 0714 07/30

VANIMO PAPUA NEW GUINEA 2.6S 141.3E 0718 07/30

JAYAPURA INDONESIA 2.4S 140.8E 0719 07/30

SORONG INDONESIA 0.8S 131.1E 0722 07/30

MANADO INDONESIA 1.6N 124.9E 0723 07/30

WEWAK PAPUA NEW GUINEA 3.5S 143.6E 0730 07/30

RABAUL PAPUA NEW GUINEA 4.2S 152.3E 0733 07/30

KANTON ISLAND KIRIBATI 2.8S 171.7W 0733 07/30

KIETA PAPUA NEW GUINEA 6.1S 155.6E 0744 07/30

FUNAFUTI ISLAND TUVALU 7.9S 178.5E 0744 07/30

ULAMONA PAPUA NEW GUINEA 5.0S 151.2E 0746 07/30

HOMEL TAIWAN 24.2N 120.4E 0750 07/30

AMUN PAPUA NEW GUINEA 6.0S 154.7E 0751 07/30

CHRISTMAS ISLAN KIRIBATI 2.0N 157.5W 0751 07/30

ZAMBOANGA PHILIPPINES 7.0N 122.3E 0752 07/30

MADANG PAPUA NEW GUINEA 5.2S 145.8E 0759 07/30

PANGGOE SOLOMON ISLANDS 6.9S 157.2E 0800 07/30

JARVIS ISLAND JARVIS ISLAND 0.4S 160.1W 0801 07/30

FALAMAE SOLOMON ISLANDS 7.4S 155.6E 0802 07/30

WOODLARK ISLAND PAPUA NEW GUINEA 9.0S 152.9E 0803 07/30

GHATERE SOLOMON ISLANDS 7.8S 159.2E 0812 07/30

MUNDA SOLOMON ISLANDS 8.4S 157.2E 0818 07/30

AUKI SOLOMON ISLANDS 8.8S 160.6E 0819 07/30

NUKUNONU ISLAND TOKELAU 9.2S 171.8W 0821 07/30

KIRAKIRA SOLOMON ISLANDS 10.4S 161.9E 0822 07/30

ENSENADA MEXICO 31.8N 116.8W 0822 07/30

LAE PAPUA NEW GUINEA 6.8S 147.0E 0833 07/30

SANTA CRUZ ISLA SOLOMON ISLANDS 10.9S 165.9E 0835 07/30

WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0841 07/30

HONIARA SOLOMON ISLANDS 9.3S 160.0E 0845 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

MALDEN ISLAND KIRIBATI 3.9S 154.9W 0846 07/30

PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0853 07/30

FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0854 07/30

APIA SAMOA 13.8S 171.8W 0858 07/30

PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0905 07/30

ESPERITU SANTO VANUATU 15.1S 167.3E 0907 07/30

PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0908 07/30

PUNTA ABREOJOS MEXICO 26.7N 113.6W 0912 07/30

NIUATOPUTAPU TONGA 15.9S 173.8W 0915 07/30

NIUE ISLAND NIUE 19.0S 170.0W 0940 07/30

HOLEVA TONGA 18.6S 173.9W 0941 07/30

CABO SAN LUCAS MEXICO 22.8N 110.0W 0950 07/30

HIENGHENE NEW CALEDONIA 20.6S 165.0E 0951 07/30

FLINT ISLAND KIRIBATI 11.4S 151.8W 0951 07/30

ANATOM ISLAND VANUATU 20.2S 169.9E 0956 07/30

LIFOU ISL NEW CALEDONIA 20.9S 167.3E 0956 07/30

SUVA FIJI 18.1S 178.4E 0957 07/30

MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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

\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 5

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0307 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.7

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.7 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... AMERICAN SAMOA... GUAM... TUVALU... VANUATU...

WAKE ISLAND... WALLIS AND FUTUNA ... YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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HACHINOHE JAPAN 40.5N 141.5E 0212 07/30

KATSUURA JAPAN 35.1N 140.3E 0222 07/30

HACHIJO JIMA JAPAN 33.1N 139.8E 0234 07/30

CHICHI JIMA JAPAN 27.0N 142.2E 0303 07/30

MINAMITORISHIMA MINAMITORISHIMA 24.3N 154.0E 0311 07/30

MIDWAY ISLAND MIDWAY ISLAND 28.2N 177.4W 0327 07/30

GASTELLO RUSSIA 49.1N 143.0E 0339 07/30

SAPPORO JAPAN 43.5N 141.0E 0340 07/30

SHIMIZU JAPAN 32.8N 133.0E 0344 07/30

WAKE ISLAND WAKE ISLAND 19.3N 166.6E 0350 07/30

NOBEOKA JAPAN 32.5N 131.8E 0350 07/30

LISIANSKI NORTHWEST HAWAII 26.1N 174.0W 0355 07/30

NIIGATA JAPAN 38.0N 139.0E 0359 07/30

LAYSAN NORTHWEST HAWAII 25.8N 171.7W 0402 07/30

FRENCH FRIGATE NORTHWEST HAWAII 23.9N 166.3W 0432 07/30

SAIPAN NORTHERN MARIANA 15.3N 145.8E 0436 07/30

NECKER NORTHWEST HAWAII 23.6N 164.7W 0439 07/30

NIHOA NORTHWEST HAWAII 23.1N 161.9W 0454 07/30

GUAM GUAM 13.4N 144.7E 0457 07/30

SHIMANE JAPAN 35.8N 133.0E 0458 07/30

OKINAWA JAPAN 26.2N 127.8E 0500 07/30

ENIWETOK MARSHALL ISLANDS 11.4N 162.3E 0509 07/30

NAWILIWILI HAWAII 22.0N 159.4W 0517 07/30

HUALIEN TAIWAN 24.0N 121.7E 0519 07/30

JOHNSTON ISLAND JOHNSTON ISLAND 16.7N 169.5W 0520 07/30

KWAJALEIN MARSHALL ISLANDS 8.7N 167.7E 0521 07/30

TAITUNG TAIWAN 22.7N 121.2E 0524 07/30

HONOLULU HAWAII 21.3N 157.9W 0531 07/30

YAP ISLAND YAP 9.5N 138.1E 0532 07/30

NAGASAKI JAPAN 32.7N 129.7E 0533 07/30

KAHULUI HAWAII 20.9N 156.5W 0537 07/30

PALANAN PHILIPPINES 17.1N 122.6E 0542 07/30

POHNPEI ISLAND POHNPEI 7.0N 158.2E 0542 07/30

MAJURO MARSHALL ISLANDS 7.1N 171.4E 0543 07/30

KOSRAE ISLAND KOSRAE 5.5N 163.0E 0543 07/30

CHILUNG TAIWAN 25.2N 121.8E 0552 07/30

HILO HAWAII 19.7N 155.1W 0555 07/30

KAOHSIUNG TAIWAN 22.5N 120.3E 0606 07/30

LAOAG PHILIPPINES 18.2N 120.6E 0607 07/30

CHUUK ISLAND CHUUK 7.4N 151.8E 0612 07/30

MALAKAL PALAU 7.3N 134.5E 0612 07/30

LEGASPI PHILIPPINES 13.2N 123.8E 0613 07/30

SAN FERNANDO PHILIPPINES 16.6N 120.3E 0627 07/30

GEME INDONESIA 4.6N 126.8E 0636 07/30

NAURU NAURU 0.5S 166.9E 0640 07/30

DAVAO PHILIPPINES 6.8N 125.7E 0640 07/30

BEREBERE INDONESIA 2.5N 128.7E 0645 07/30

HOWLAND ISLAND HOWLAND AND BAKE 0.6N 176.6W 0654 07/30

WARSA INDONESIA 0.6S 135.8E 0657 07/30

TABUKAN TENGAH INDONESIA 3.6N 125.6E 0702 07/30

KAVIENG PAPUA NEW GUINEA 2.5S 150.7E 0703 07/30

MANUS ISLAND PAPUA NEW GUINEA 2.0S 147.5E 0704 07/30

MANOKWARI INDONESIA 0.8S 134.2E 0705 07/30

PALMYRA ISLAND PALMYRA ISLAND 5.9N 162.1W 0707 07/30

PATANI INDONESIA 0.4N 128.8E 0711 07/30

COTABUTO CITY PHILIPPINES 7.2N 124.2E 0714 07/30

VANIMO PAPUA NEW GUINEA 2.6S 141.3E 0718 07/30

JAYAPURA INDONESIA 2.4S 140.8E 0719 07/30

SORONG INDONESIA 0.8S 131.1E 0722 07/30

MANADO INDONESIA 1.6N 124.9E 0723 07/30

WEWAK PAPUA NEW GUINEA 3.5S 143.6E 0730 07/30

RABAUL PAPUA NEW GUINEA 4.2S 152.3E 0733 07/30

KANTON ISLAND KIRIBATI 2.8S 171.7W 0733 07/30

KIETA PAPUA NEW GUINEA 6.1S 155.6E 0744 07/30

FUNAFUTI ISLAND TUVALU 7.9S 178.5E 0744 07/30

ULAMONA PAPUA NEW GUINEA 5.0S 151.2E 0746 07/30

HOMEL TAIWAN 24.2N 120.4E 0750 07/30

AMUN PAPUA NEW GUINEA 6.0S 154.7E 0751 07/30

CHRISTMAS ISLAN KIRIBATI 2.0N 157.5W 0751 07/30

ZAMBOANGA PHILIPPINES 7.0N 122.3E 0752 07/30

MADANG PAPUA NEW GUINEA 5.2S 145.8E 0759 07/30

PANGGOE SOLOMON ISLANDS 6.9S 157.2E 0800 07/30

JARVIS ISLAND JARVIS ISLAND 0.4S 160.1W 0801 07/30

FALAMAE SOLOMON ISLANDS 7.4S 155.6E 0802 07/30

WOODLARK ISLAND PAPUA NEW GUINEA 9.0S 152.9E 0803 07/30

GHATERE SOLOMON ISLANDS 7.8S 159.2E 0812 07/30

MUNDA SOLOMON ISLANDS 8.4S 157.2E 0818 07/30

AUKI SOLOMON ISLANDS 8.8S 160.6E 0819 07/30

NUKUNONU ISLAND TOKELAU 9.2S 171.8W 0821 07/30

KIRAKIRA SOLOMON ISLANDS 10.4S 161.9E 0822 07/30

ENSENADA MEXICO 31.8N 116.8W 0822 07/30

LAE PAPUA NEW GUINEA 6.8S 147.0E 0833 07/30

SANTA CRUZ ISLA SOLOMON ISLANDS 10.9S 165.9E 0835 07/30

WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0841 07/30

HONIARA SOLOMON ISLANDS 9.3S 160.0E 0845 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

MALDEN ISLAND KIRIBATI 3.9S 154.9W 0846 07/30

PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0853 07/30

FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0854 07/30

APIA SAMOA 13.8S 171.8W 0858 07/30

PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0905 07/30

ESPERITU SANTO VANUATU 15.1S 167.3E 0907 07/30

PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0908 07/30

PUNTA ABREOJOS MEXICO 26.7N 113.6W 0912 07/30

NIUATOPUTAPU TONGA 15.9S 173.8W 0915 07/30

NIUE ISLAND NIUE 19.0S 170.0W 0940 07/30

HOLEVA TONGA 18.6S 173.9W 0941 07/30

CABO SAN LUCAS MEXICO 22.8N 110.0W 0950 07/30

HIENGHENE NEW CALEDONIA 20.6S 165.0E 0951 07/30

FLINT ISLAND KIRIBATI 11.4S 151.8W 0951 07/30

ANATOM ISLAND VANUATU 20.2S 169.9E 0956 07/30

LIFOU ISL NEW CALEDONIA 20.9S 167.3E 0956 07/30

SUVA FIJI 18.1S 178.4E 0957 07/30

MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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

\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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HANASAKI HOKKAIDO J 43.3N 145.6E 0158 0.32M/ 1.0FT 58

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 6

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0437 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.7

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.7 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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GASTELLO RUSSIA 49.1N 143.0E 0339 07/30

SAPPORO JAPAN 43.5N 141.0E 0340 07/30

SHIMIZU JAPAN 32.8N 133.0E 0344 07/30

WAKE ISLAND WAKE ISLAND 19.3N 166.6E 0350 07/30

NOBEOKA JAPAN 32.5N 131.8E 0350 07/30

LISIANSKI NORTHWEST HAWAII 26.1N 174.0W 0355 07/30

NIIGATA JAPAN 38.0N 139.0E 0359 07/30

LAYSAN NORTHWEST HAWAII 25.8N 171.7W 0402 07/30

FRENCH FRIGATE NORTHWEST HAWAII 23.9N 166.3W 0432 07/30

SAIPAN NORTHERN MARIANA 15.3N 145.8E 0436 07/30

NECKER NORTHWEST HAWAII 23.6N 164.7W 0439 07/30

NIHOA NORTHWEST HAWAII 23.1N 161.9W 0454 07/30

GUAM GUAM 13.4N 144.7E 0457 07/30

SHIMANE JAPAN 35.8N 133.0E 0458 07/30

OKINAWA JAPAN 26.2N 127.8E 0500 07/30

ENIWETOK MARSHALL ISLANDS 11.4N 162.3E 0509 07/30

NAWILIWILI HAWAII 22.0N 159.4W 0517 07/30

HUALIEN TAIWAN 24.0N 121.7E 0519 07/30

JOHNSTON ISLAND JOHNSTON ISLAND 16.7N 169.5W 0520 07/30

KWAJALEIN MARSHALL ISLANDS 8.7N 167.7E 0521 07/30

TAITUNG TAIWAN 22.7N 121.2E 0524 07/30

HONOLULU HAWAII 21.3N 157.9W 0531 07/30

YAP ISLAND YAP 9.5N 138.1E 0532 07/30

NAGASAKI JAPAN 32.7N 129.7E 0533 07/30

KAHULUI HAWAII 20.9N 156.5W 0537 07/30

PALANAN PHILIPPINES 17.1N 122.6E 0542 07/30

POHNPEI ISLAND POHNPEI 7.0N 158.2E 0542 07/30

MAJURO MARSHALL ISLANDS 7.1N 171.4E 0543 07/30

KOSRAE ISLAND KOSRAE 5.5N 163.0E 0543 07/30

CHILUNG TAIWAN 25.2N 121.8E 0552 07/30

HILO HAWAII 19.7N 155.1W 0555 07/30

KAOHSIUNG TAIWAN 22.5N 120.3E 0606 07/30

LAOAG PHILIPPINES 18.2N 120.6E 0607 07/30

CHUUK ISLAND CHUUK 7.4N 151.8E 0612 07/30

MALAKAL PALAU 7.3N 134.5E 0612 07/30

LEGASPI PHILIPPINES 13.2N 123.8E 0613 07/30

SAN FERNANDO PHILIPPINES 16.6N 120.3E 0627 07/30

GEME INDONESIA 4.6N 126.8E 0636 07/30

NAURU NAURU 0.5S 166.9E 0640 07/30

DAVAO PHILIPPINES 6.8N 125.7E 0640 07/30

BEREBERE INDONESIA 2.5N 128.7E 0645 07/30

HOWLAND ISLAND HOWLAND AND BAKE 0.6N 176.6W 0654 07/30

WARSA INDONESIA 0.6S 135.8E 0657 07/30

TABUKAN TENGAH INDONESIA 3.6N 125.6E 0702 07/30

KAVIENG PAPUA NEW GUINEA 2.5S 150.7E 0703 07/30

MANUS ISLAND PAPUA NEW GUINEA 2.0S 147.5E 0704 07/30

MANOKWARI INDONESIA 0.8S 134.2E 0705 07/30

PALMYRA ISLAND PALMYRA ISLAND 5.9N 162.1W 0707 07/30

PATANI INDONESIA 0.4N 128.8E 0711 07/30

COTABUTO CITY PHILIPPINES 7.2N 124.2E 0714 07/30

VANIMO PAPUA NEW GUINEA 2.6S 141.3E 0718 07/30

JAYAPURA INDONESIA 2.4S 140.8E 0719 07/30

SORONG INDONESIA 0.8S 131.1E 0722 07/30

MANADO INDONESIA 1.6N 124.9E 0723 07/30

WEWAK PAPUA NEW GUINEA 3.5S 143.6E 0730 07/30

RABAUL PAPUA NEW GUINEA 4.2S 152.3E 0733 07/30

KANTON ISLAND KIRIBATI 2.8S 171.7W 0733 07/30

KIETA PAPUA NEW GUINEA 6.1S 155.6E 0744 07/30

FUNAFUTI ISLAND TUVALU 7.9S 178.5E 0744 07/30

ULAMONA PAPUA NEW GUINEA 5.0S 151.2E 0746 07/30

HOMEL TAIWAN 24.2N 120.4E 0750 07/30

AMUN PAPUA NEW GUINEA 6.0S 154.7E 0751 07/30

CHRISTMAS ISLAN KIRIBATI 2.0N 157.5W 0751 07/30

ZAMBOANGA PHILIPPINES 7.0N 122.3E 0752 07/30

MADANG PAPUA NEW GUINEA 5.2S 145.8E 0759 07/30

PANGGOE SOLOMON ISLANDS 6.9S 157.2E 0800 07/30

JARVIS ISLAND JARVIS ISLAND 0.4S 160.1W 0801 07/30

FALAMAE SOLOMON ISLANDS 7.4S 155.6E 0802 07/30

WOODLARK ISLAND PAPUA NEW GUINEA 9.0S 152.9E 0803 07/30

GHATERE SOLOMON ISLANDS 7.8S 159.2E 0812 07/30

MUNDA SOLOMON ISLANDS 8.4S 157.2E 0818 07/30

AUKI SOLOMON ISLANDS 8.8S 160.6E 0819 07/30

NUKUNONU ISLAND TOKELAU 9.2S 171.8W 0821 07/30

KIRAKIRA SOLOMON ISLANDS 10.4S 161.9E 0822 07/30

ENSENADA MEXICO 31.8N 116.8W 0822 07/30

LAE PAPUA NEW GUINEA 6.8S 147.0E 0833 07/30

SANTA CRUZ ISLA SOLOMON ISLANDS 10.9S 165.9E 0835 07/30

WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0841 07/30

HONIARA SOLOMON ISLANDS 9.3S 160.0E 0845 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

MALDEN ISLAND KIRIBATI 3.9S 154.9W 0846 07/30

PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0853 07/30

FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0854 07/30

APIA SAMOA 13.8S 171.8W 0858 07/30

PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0905 07/30

ESPERITU SANTO VANUATU 15.1S 167.3E 0907 07/30

PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0908 07/30

PUNTA ABREOJOS MEXICO 26.7N 113.6W 0912 07/30

NIUATOPUTAPU TONGA 15.9S 173.8W 0915 07/30

NIUE ISLAND NIUE 19.0S 170.0W 0940 07/30

HOLEVA TONGA 18.6S 173.9W 0941 07/30

CABO SAN LUCAS MEXICO 22.8N 110.0W 0950 07/30

HIENGHENE NEW CALEDONIA 20.6S 165.0E 0951 07/30

FLINT ISLAND KIRIBATI 11.4S 151.8W 0951 07/30

ANATOM ISLAND VANUATU 20.2S 169.9E 0956 07/30

LIFOU ISL NEW CALEDONIA 20.9S 167.3E 0956 07/30

SUVA FIJI 18.1S 178.4E 0957 07/30

MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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CHICHIJIMA JP 27.1N 142.2E 0357 0.29M/ 1.0FT 16

WAKE US 19.3N 166.6E 0402 0.22M/ 0.7FT 14

MIDWAY 28.2N 177.4W 0328 0.31M/ 1.0FT 44

ATKA AK 52.2N 174.2W 0322 0.31M/ 1.0FT 68

HANASAKI HOKKAIDO J 43.3N 145.6E 0158 0.32M/ 1.0FT 58

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

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NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND

AT WWW.TSUNAMI.GOV.

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TSUNAMI MESSAGE NUMBER 7

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0623 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

----------

\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

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LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

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POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

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THE TIDE LEVEL FOR THE COASTS OF

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AMPLITUDES DUE TO UNCERTAINTIES IN THE FORECAST AND LOCAL

FEATURES. IN PARTICULAR MAXIMUM TSUNAMI AMPLITUDES ON ATOLLS

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ESTIMATED TIMES OF ARRIVAL

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FOR PLACES WITHIN THREATENED REGIONS ARE GIVEN BELOW. ACTUAL

ARRIVAL TIMES MAY DIFFER AND THE INITIAL WAVE MAY NOT BE THE

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WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION REGION COORDINATES ETA(UTC)

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TAITUNG TAIWAN 22.7N 121.2E 0524 07/30

HONOLULU HAWAII 21.3N 157.9W 0531 07/30

YAP ISLAND YAP 9.5N 138.1E 0532 07/30

NAGASAKI JAPAN 32.7N 129.7E 0533 07/30

KAHULUI HAWAII 20.9N 156.5W 0537 07/30

PALANAN PHILIPPINES 17.1N 122.6E 0542 07/30

POHNPEI ISLAND POHNPEI 7.0N 158.2E 0542 07/30

MAJURO MARSHALL ISLANDS 7.1N 171.4E 0543 07/30

KOSRAE ISLAND KOSRAE 5.5N 163.0E 0543 07/30

CHILUNG TAIWAN 25.2N 121.8E 0552 07/30

HILO HAWAII 19.7N 155.1W 0555 07/30

KAOHSIUNG TAIWAN 22.5N 120.3E 0606 07/30

LAOAG PHILIPPINES 18.2N 120.6E 0607 07/30

CHUUK ISLAND CHUUK 7.4N 151.8E 0612 07/30

MALAKAL PALAU 7.3N 134.5E 0612 07/30

LEGASPI PHILIPPINES 13.2N 123.8E 0613 07/30

SAN FERNANDO PHILIPPINES 16.6N 120.3E 0627 07/30

GEME INDONESIA 4.6N 126.8E 0636 07/30

NAURU NAURU 0.5S 166.9E 0640 07/30

DAVAO PHILIPPINES 6.8N 125.7E 0640 07/30

BEREBERE INDONESIA 2.5N 128.7E 0645 07/30

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RABAUL PAPUA NEW GUINEA 4.2S 152.3E 0733 07/30

KANTON ISLAND KIRIBATI 2.8S 171.7W 0733 07/30

KIETA PAPUA NEW GUINEA 6.1S 155.6E 0744 07/30

FUNAFUTI ISLAND TUVALU 7.9S 178.5E 0744 07/30

ULAMONA PAPUA NEW GUINEA 5.0S 151.2E 0746 07/30

HOMEL TAIWAN 24.2N 120.4E 0750 07/30

AMUN PAPUA NEW GUINEA 6.0S 154.7E 0751 07/30

CHRISTMAS ISLAN KIRIBATI 2.0N 157.5W 0751 07/30

ZAMBOANGA PHILIPPINES 7.0N 122.3E 0752 07/30

MADANG PAPUA NEW GUINEA 5.2S 145.8E 0759 07/30

PANGGOE SOLOMON ISLANDS 6.9S 157.2E 0800 07/30

JARVIS ISLAND JARVIS ISLAND 0.4S 160.1W 0801 07/30

FALAMAE SOLOMON ISLANDS 7.4S 155.6E 0802 07/30

WOODLARK ISLAND PAPUA NEW GUINEA 9.0S 152.9E 0803 07/30

GHATERE SOLOMON ISLANDS 7.8S 159.2E 0812 07/30

MUNDA SOLOMON ISLANDS 8.4S 157.2E 0818 07/30

AUKI SOLOMON ISLANDS 8.8S 160.6E 0819 07/30

NUKUNONU ISLAND TOKELAU 9.2S 171.8W 0821 07/30

KIRAKIRA SOLOMON ISLANDS 10.4S 161.9E 0822 07/30

ENSENADA MEXICO 31.8N 116.8W 0822 07/30

LAE PAPUA NEW GUINEA 6.8S 147.0E 0833 07/30

SANTA CRUZ ISLA SOLOMON ISLANDS 10.9S 165.9E 0835 07/30

WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0841 07/30

HONIARA SOLOMON ISLANDS 9.3S 160.0E 0845 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

MALDEN ISLAND KIRIBATI 3.9S 154.9W 0846 07/30

PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0853 07/30

FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0854 07/30

APIA SAMOA 13.8S 171.8W 0858 07/30

PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0905 07/30

ESPERITU SANTO VANUATU 15.1S 167.3E 0907 07/30

PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0908 07/30

PUNTA ABREOJOS MEXICO 26.7N 113.6W 0912 07/30

NIUATOPUTAPU TONGA 15.9S 173.8W 0915 07/30

NIUE ISLAND NIUE 19.0S 170.0W 0940 07/30

HOLEVA TONGA 18.6S 173.9W 0941 07/30

CABO SAN LUCAS MEXICO 22.8N 110.0W 0950 07/30

HIENGHENE NEW CALEDONIA 20.6S 165.0E 0951 07/30

FLINT ISLAND KIRIBATI 11.4S 151.8W 0951 07/30

ANATOM ISLAND VANUATU 20.2S 169.9E 0956 07/30

LIFOU ISL NEW CALEDONIA 20.9S 167.3E 0956 07/30

SUVA FIJI 18.1S 178.4E 0957 07/30

MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

KAHULUI MAUI 20.9N 156.5W 0545 1.23M/ 4.0FT 60

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

CHICHIJIMA JP 27.1N 142.2E 0357 0.29M/ 1.0FT 16

ATKA AK 52.2N 174.2W 0322 0.31M/ 1.0FT 68

HANASAKI HOKKAIDO J 43.3N 145.6E 0158 0.32M/ 1.0FT 58

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

$$

TSUNAMI MESSAGE NUMBER 8

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0724 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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SHOULD TAKE ACTION TO INFORM AND INSTRUCT ANY COASTAL

POPULATIONS AT RISK IN ACCORDANCE WITH THEIR OWN

EVALUATION... PROCEDURES AND THE LEVEL OF THREAT.

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FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

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LOCATION REGION COORDINATES ETA(UTC)

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SAN FERNANDO PHILIPPINES 16.6N 120.3E 0627 07/30

GEME INDONESIA 4.6N 126.8E 0636 07/30

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DAVAO PHILIPPINES 6.8N 125.7E 0640 07/30

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MANOKWARI INDONESIA 0.8S 134.2E 0705 07/30

PALMYRA ISLAND PALMYRA ISLAND 5.9N 162.1W 0707 07/30

PATANI INDONESIA 0.4N 128.8E 0711 07/30

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KANTON ISLAND KIRIBATI 2.8S 171.7W 0733 07/30

KIETA PAPUA NEW GUINEA 6.1S 155.6E 0744 07/30

FUNAFUTI ISLAND TUVALU 7.9S 178.5E 0744 07/30

ULAMONA PAPUA NEW GUINEA 5.0S 151.2E 0746 07/30

HOMEL TAIWAN 24.2N 120.4E 0750 07/30

AMUN PAPUA NEW GUINEA 6.0S 154.7E 0751 07/30

CHRISTMAS ISLAN KIRIBATI 2.0N 157.5W 0751 07/30

ZAMBOANGA PHILIPPINES 7.0N 122.3E 0752 07/30

MADANG PAPUA NEW GUINEA 5.2S 145.8E 0759 07/30

PANGGOE SOLOMON ISLANDS 6.9S 157.2E 0800 07/30

JARVIS ISLAND JARVIS ISLAND 0.4S 160.1W 0801 07/30

FALAMAE SOLOMON ISLANDS 7.4S 155.6E 0802 07/30

WOODLARK ISLAND PAPUA NEW GUINEA 9.0S 152.9E 0803 07/30

GHATERE SOLOMON ISLANDS 7.8S 159.2E 0812 07/30

MUNDA SOLOMON ISLANDS 8.4S 157.2E 0818 07/30

AUKI SOLOMON ISLANDS 8.8S 160.6E 0819 07/30

NUKUNONU ISLAND TOKELAU 9.2S 171.8W 0821 07/30

KIRAKIRA SOLOMON ISLANDS 10.4S 161.9E 0822 07/30

ENSENADA MEXICO 31.8N 116.8W 0822 07/30

LAE PAPUA NEW GUINEA 6.8S 147.0E 0833 07/30

SANTA CRUZ ISLA SOLOMON ISLANDS 10.9S 165.9E 0835 07/30

WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0841 07/30

HONIARA SOLOMON ISLANDS 9.3S 160.0E 0845 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

MALDEN ISLAND KIRIBATI 3.9S 154.9W 0846 07/30

PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0853 07/30

FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0854 07/30

APIA SAMOA 13.8S 171.8W 0858 07/30

PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0905 07/30

ESPERITU SANTO VANUATU 15.1S 167.3E 0907 07/30

PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0908 07/30

PUNTA ABREOJOS MEXICO 26.7N 113.6W 0912 07/30

NIUATOPUTAPU TONGA 15.9S 173.8W 0915 07/30

NIUE ISLAND NIUE 19.0S 170.0W 0940 07/30

HOLEVA TONGA 18.6S 173.9W 0941 07/30

CABO SAN LUCAS MEXICO 22.8N 110.0W 0950 07/30

HIENGHENE NEW CALEDONIA 20.6S 165.0E 0951 07/30

FLINT ISLAND KIRIBATI 11.4S 151.8W 0951 07/30

ANATOM ISLAND VANUATU 20.2S 169.9E 0956 07/30

LIFOU ISL NEW CALEDONIA 20.9S 167.3E 0956 07/30

SUVA FIJI 18.1S 178.4E 0957 07/30

MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

HANASAKI HOKKAIDO J 43.3N 145.6E 0158 0.32M/ 1.0FT 58

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 9

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0835 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... GUAM... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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KIETA PAPUA NEW GUINEA 6.1S 155.6E 0744 07/30

FUNAFUTI ISLAND TUVALU 7.9S 178.5E 0744 07/30

ULAMONA PAPUA NEW GUINEA 5.0S 151.2E 0746 07/30

HOMEL TAIWAN 24.2N 120.4E 0750 07/30

AMUN PAPUA NEW GUINEA 6.0S 154.7E 0751 07/30

CHRISTMAS ISLAN KIRIBATI 2.0N 157.5W 0751 07/30

ZAMBOANGA PHILIPPINES 7.0N 122.3E 0752 07/30

MADANG PAPUA NEW GUINEA 5.2S 145.8E 0759 07/30

PANGGOE SOLOMON ISLANDS 6.9S 157.2E 0800 07/30

JARVIS ISLAND JARVIS ISLAND 0.4S 160.1W 0801 07/30

FALAMAE SOLOMON ISLANDS 7.4S 155.6E 0802 07/30

WOODLARK ISLAND PAPUA NEW GUINEA 9.0S 152.9E 0803 07/30

GHATERE SOLOMON ISLANDS 7.8S 159.2E 0812 07/30

MUNDA SOLOMON ISLANDS 8.4S 157.2E 0818 07/30

AUKI SOLOMON ISLANDS 8.8S 160.6E 0819 07/30

NUKUNONU ISLAND TOKELAU 9.2S 171.8W 0821 07/30

KIRAKIRA SOLOMON ISLANDS 10.4S 161.9E 0822 07/30

ENSENADA MEXICO 31.8N 116.8W 0822 07/30

LAE PAPUA NEW GUINEA 6.8S 147.0E 0833 07/30

SANTA CRUZ ISLA SOLOMON ISLANDS 10.9S 165.9E 0835 07/30

WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0841 07/30

HONIARA SOLOMON ISLANDS 9.3S 160.0E 0845 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

MALDEN ISLAND KIRIBATI 3.9S 154.9W 0846 07/30

PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0853 07/30

FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0854 07/30

APIA SAMOA 13.8S 171.8W 0858 07/30

PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0905 07/30

ESPERITU SANTO VANUATU 15.1S 167.3E 0907 07/30

PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0908 07/30

PUNTA ABREOJOS MEXICO 26.7N 113.6W 0912 07/30

NIUATOPUTAPU TONGA 15.9S 173.8W 0915 07/30

NIUE ISLAND NIUE 19.0S 170.0W 0940 07/30

HOLEVA TONGA 18.6S 173.9W 0941 07/30

CABO SAN LUCAS MEXICO 22.8N 110.0W 0950 07/30

HIENGHENE NEW CALEDONIA 20.6S 165.0E 0951 07/30

FLINT ISLAND KIRIBATI 11.4S 151.8W 0951 07/30

ANATOM ISLAND VANUATU 20.2S 169.9E 0956 07/30

LIFOU ISL NEW CALEDONIA 20.9S 167.3E 0956 07/30

SUVA FIJI 18.1S 178.4E 0957 07/30

MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

HANASAKI HOKKAIDO J 43.3N 145.6E 0158 0.32M/ 1.0FT 58

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 10

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0936 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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WALLIS ISLAND WALLIS AND FUTUN 13.2S 176.2W 0841 07/30

HONIARA SOLOMON ISLANDS 9.3S 160.0E 0845 07/30

MANILA PHILIPPINES 14.6N 121.0E 0845 07/30

MALDEN ISLAND KIRIBATI 3.9S 154.9W 0846 07/30

PUKAPUKA ISLAND COOK ISLANDS 10.8S 165.9W 0853 07/30

FUTUNA ISLAND WALLIS AND FUTUN 14.3S 178.2W 0854 07/30

APIA SAMOA 13.8S 171.8W 0858 07/30

PAGO PAGO AMERICAN SAMOA 14.3S 170.7W 0905 07/30

ESPERITU SANTO VANUATU 15.1S 167.3E 0907 07/30

PENRYN ISLAND COOK ISLANDS 8.9S 157.8W 0908 07/30

PUNTA ABREOJOS MEXICO 26.7N 113.6W 0912 07/30

NIUATOPUTAPU TONGA 15.9S 173.8W 0915 07/30

NIUE ISLAND NIUE 19.0S 170.0W 0940 07/30

HOLEVA TONGA 18.6S 173.9W 0941 07/30

CABO SAN LUCAS MEXICO 22.8N 110.0W 0950 07/30

HIENGHENE NEW CALEDONIA 20.6S 165.0E 0951 07/30

FLINT ISLAND KIRIBATI 11.4S 151.8W 0951 07/30

ANATOM ISLAND VANUATU 20.2S 169.9E 0956 07/30

LIFOU ISL NEW CALEDONIA 20.9S 167.3E 0956 07/30

SUVA FIJI 18.1S 178.4E 0957 07/30

MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

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TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

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GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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

APIA UPOLU WS 13.8S 171.8W 0926 0.33M/ 1.1FT 40

PAGO PAGO AS 14.3S 170.7W 0910 0.21M/ 0.7FT 36

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

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HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

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CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

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MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

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KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

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DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

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\* 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.

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TSUNAMI MESSAGE NUMBER 11

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1103 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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

\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* GOVERNMENT AGENCIES RESPONSIBLE FOR THREATENED COASTAL AREAS

SHOULD TAKE ACTION TO INFORM AND INSTRUCT ANY COASTAL

POPULATIONS AT RISK IN ACCORDANCE WITH THEIR OWN

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ESTIMATED TIMES OF ARRIVAL

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\* 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

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WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION REGION COORDINATES ETA(UTC)

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MARE ISL NEW CALEDONIA 21.6S 167.8E 1006 07/30

NUKUALOFA TONGA 21.0S 175.2W 1010 07/30

OUINNE NEW CALEDONIA 22.0S 166.8E 1011 07/30

RAROTONGA COOK ISLANDS 21.2S 159.8W 1031 07/30

MAZATLAN MEXICO 23.2N 106.4W 1039 07/30

HIVA OA FRENCH POLYNESIA 10.0S 139.0W 1040 07/30

NOUMEA NEW CALEDONIA 22.3S 166.5E 1044 07/30

PUERTO VALLARTA MEXICO 20.6N 105.2W 1047 07/30

PAPEETE FRENCH POLYNESIA 17.5S 149.6W 1048 07/30

RAOUL ISLAND KERMADEC ISLANDS 29.2S 177.9W 1101 07/30

MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

VANUATU 17.8S 168.3E 1044 0.42M/ 1.4FT 16

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

LUGANVILLE VU 15.5S 167.2E 0958 0.21M/ 0.7FT 52

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

CRESCENT CITY CA 41.7N 124.2W 0930 1.12M/ 3.7FT 22

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* COASTAL REGIONS OF HAWAII... AMERICAN SAMOA... GUAM... AND

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TSUNAMI MESSAGE NUMBER 12

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1204 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

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LOCATION REGION COORDINATES ETA(UTC)

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MANZANILLO MEXICO 19.1N 104.3W 1105 07/30

SAN BLAS MEXICO 21.5N 105.3W 1111 07/30

LAZARO CARDENAS MEXICO 17.9N 102.2W 1126 07/30

TUBUAI FRENCH POLYNESIA 23.3S 149.5W 1129 07/30

ACAPULCO MEXICO 16.9N 99.9W 1140 07/30

BRISBANE AUSTRALIA 27.2S 153.3E 1159 07/30

LOTTIN POINT NEW ZEALAND 37.5S 178.2E 1159 07/30

NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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

OUVEA NEW CALEDONIA 20.5S 166.6E 1057 0.14M/ 0.4FT 30

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

VANUATU 17.8S 168.3E 1044 0.42M/ 1.4FT 16

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

LUGANVILLE VU 15.5S 167.2E 0958 0.21M/ 0.7FT 52

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

CRESCENT CITY CA 41.7N 124.2W 0930 1.12M/ 3.7FT 22

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 13

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1311 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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NORTH CAPE NEW ZEALAND 34.4S 173.3E 1213 07/30

EAST CAPE NEW ZEALAND 37.7S 178.5E 1228 07/30

RAPA ITI FRENCH POLYNESIA 27.6S 144.3W 1229 07/30

SYDNEY AUSTRALIA 33.9S 151.4E 1230 07/30

GISBORNE NEW ZEALAND 38.7S 178.0E 1234 07/30

MOUNT MAUNGANUI NEW ZEALAND 37.6S 176.2E 1239 07/30

RIKITEA FRENCH POLYNESIA 23.1S 135.0W 1239 07/30

PORT TAURANGA NEW ZEALAND 37.7S 176.2E 1252 07/30

WELLINGTON NEW ZEALAND 41.3S 174.8E 1258 07/30

SALINA CRUZ MEXICO 16.5N 95.2W 1259 07/30

WHANGAREI NEW ZEALAND 35.8S 174.5E 1307 07/30

GLADSTONE AUSTRALIA 23.8S 151.4E 1309 07/30

KAINGAROA CHATH NEW ZEALAND 43.7S 176.3W 1310 07/30

CHAMPERICO RETA GUATEMALA 14.3N 91.9W 1314 07/30

AUCKLAND WEST NEW ZEALAND 37.1S 174.2E 1315 07/30

PUERTO MADERO MEXICO 14.8N 92.5W 1315 07/30

PITCAIRN ISLAND PITCAIRN 25.1S 130.1W 1316 07/30

MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

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GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

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PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

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TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

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NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

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PIMENTAL PERU 6.9S 80.0W 1733 07/30

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BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

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SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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

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TSUNAMI OBSERVATIONS

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

\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

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RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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

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HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

VANUATU 17.8S 168.3E 1044 0.42M/ 1.4FT 16

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

LUGANVILLE VU 15.5S 167.2E 0958 0.21M/ 0.7FT 52

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

CRESCENT CITY CA 41.7N 124.2W 0930 1.12M/ 3.7FT 22

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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

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NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND

AT WWW.TSUNAMI.GOV.

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TSUNAMI MESSAGE NUMBER 14

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1417 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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UNESCO/IOC PACIFIC TSUNAMI WARNING AND MITIGATION SYSTEM AND IS

MEANT FOR NATIONAL AUTHORITIES IN EACH COUNTRY OF THAT SYSTEM.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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

\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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

\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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

\* 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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MARLBOROUGH SOU NEW ZEALAND 41.1S 174.4E 1319 07/30

OCOS SAN MARCOS GUATEMALA 14.5N 92.2W 1321 07/30

TIQUISATE ESCUI GUATEMALA 14.0N 91.5W 1322 07/30

NAPIER NEW ZEALAND 39.5S 176.9E 1322 07/30

MONTERRICO SANT GUATEMALA 13.9N 90.5W 1328 07/30

WAITANGI CHATHA NEW ZEALAND 43.9S 176.6W 1330 07/30

SIPACATE GUATEMALA 13.9N 91.2W 1331 07/30

PUERTO DE SAN J GUATEMALA 13.9N 90.8W 1332 07/30

AUCKLAND EAST NEW ZEALAND 36.7S 175.0E 1335 07/30

ACAJUTLA EL SALVADOR 13.6N 89.8W 1337 07/30

PICTON NEW ZEALAND 41.3S 174.0E 1345 07/30

CABO SAN ELENA COSTA RICA 10.9N 86.0W 1349 07/30

MACKAY AUSTRALIA 21.1S 149.3E 1350 07/30

CORINTO NICARAGUA 12.5N 87.2W 1358 07/30

NEW PLYMOUTH NEW ZEALAND 39.1S 174.1E 1400 07/30

PUERTO SANDINO NICARAGUA 12.2N 86.8W 1404 07/30

JACKSON BAY NEW ZEALAND 44.0S 168.6E 1412 07/30

ISLA DEL COCO COSTA RICA 5.5N 87.1W 1412 07/30

SAN JUAN DL SUR NICARAGUA 11.2N 85.9W 1414 07/30

PUERTO QUEPOS COSTA RICA 9.4N 84.2W 1416 07/30

CABO MATAPALO COSTA RICA 8.4N 83.3W 1418 07/30

MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

OUVEA NEW CALEDONIA 20.5S 166.6E 1057 0.14M/ 0.4FT 30

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

VANUATU 17.8S 168.3E 1044 0.42M/ 1.4FT 16

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

LUGANVILLE VU 15.5S 167.2E 0958 0.21M/ 0.7FT 52

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

CRESCENT CITY CA 41.7N 124.2W 0930 1.12M/ 3.7FT 22

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

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SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

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NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND

AT WWW.TSUNAMI.GOV.

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TSUNAMI MESSAGE NUMBER 15

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1518 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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PRELIMINARY EARTHQUAKE PARAMETERS

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

\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

----------

\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

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\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

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TSUNAMI THREAT FORECAST

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POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

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ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

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\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

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ESTIMATED TIMES OF ARRIVAL

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LOCATION REGION COORDINATES ETA(UTC)

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MILFORD SOUND NEW ZEALAND 44.6S 167.9E 1418 07/30

PUNTA BURICA PANAMA 8.0N 82.9W 1429 07/30

WANGANUI NEW ZEALAND 39.9S 175.0E 1432 07/30

DUNEDIN NEW ZEALAND 45.9S 170.5E 1434 07/30

WESTPORT NEW ZEALAND 41.8S 171.6E 1439 07/30

STEWART ISLAND NEW ZEALAND 47.3S 167.5E 1447 07/30

GREYMOUTH NEW ZEALAND 42.5S 171.2E 1457 07/30

TIMARU NEW ZEALAND 44.4S 171.3E 1503 07/30

LYTTELTON NEW ZEALAND 43.6S 172.7E 1508 07/30

PUNTA MALA PANAMA 7.5N 80.0W 1515 07/30

BALTRA ISLAND ECUADOR 0.5S 90.3W 1520 07/30

EASTER ISLAND CHILE 27.1S 109.4W 1522 07/30

PUERTO PINA PANAMA 7.4N 78.0W 1525 07/30

BAHIA SOLANO COLOMBIA 6.3N 77.4W 1528 07/30

ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

OUVEA NEW CALEDONIA 20.5S 166.6E 1057 0.14M/ 0.4FT 30

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

VANUATU 17.8S 168.3E 1044 0.42M/ 1.4FT 16

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

LUGANVILLE VU 15.5S 167.2E 0958 0.21M/ 0.7FT 52

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

CRESCENT CITY CA 41.7N 124.2W 0930 1.12M/ 3.7FT 22

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 16

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1632 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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ESMERELDAS ECUADOR 1.2N 79.8W 1544 07/30

TUMACO COLOMBIA 1.8N 78.9W 1552 07/30

LA LIBERTAD ECUADOR 2.2S 81.2W 1605 07/30

BUENAVENTURA COLOMBIA 3.8N 77.2W 1611 07/30

NELSON NEW ZEALAND 41.3S 173.3E 1621 07/30

TALARA PERU 4.6S 81.5W 1625 07/30

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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

\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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

BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

OUVEA NEW CALEDONIA 20.5S 166.6E 1057 0.14M/ 0.4FT 30

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

VANUATU 17.8S 168.3E 1044 0.42M/ 1.4FT 16

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

LUGANVILLE VU 15.5S 167.2E 0958 0.21M/ 0.7FT 52

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

CRESCENT CITY CA 41.7N 124.2W 0930 1.12M/ 3.7FT 22

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 17

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1736 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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

\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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

\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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

\* 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)

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

BLUFF NEW ZEALAND 46.6S 168.3E 1646 07/30

CAPE ADARE ANTARCTICA 71.0S 170.0E 1708 07/30

PIMENTAL PERU 6.9S 80.0W 1733 07/30

LA PUNTA PERU 12.1S 77.2W 1735 07/30

BALBOA HEIGHTS PANAMA 9.0N 79.6W 1736 07/30

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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

\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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

FARE UTE TAHITI 17.5S 149.6W 1210 0.23M/ 0.7FT 18

PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

SALINA CRUZ MX 16.2N 95.2W 1408 0.23M/ 0.8FT 54

EASTER CL 27.2S 109.4W 1655 0.38M/ 1.2FT 06

TOSASHIMIZU SHIKOKU 32.8N 133.0E 1608 0.49M/ 1.6FT 22

OFUNATO HONSHU JP 39.0N 141.8E 0507 0.27M/ 0.9FT 10

DART 01003 23.4S 173.4W 1217 0.02M/ 0.1FT 16

ZIHUATANEJO MX 17.6N 101.6W 1417 0.25M/ 0.8FT 06

MANZANILLO MX 19.1N 104.3W 1303 0.53M/ 1.7FT 42

SAND POINT AK 55.3N 160.5W 1432 0.24M/ 0.8FT 26

TOFINO CA 49.2N 125.9W 1142 0.22M/ 0.7FT 22

SOUTH BEACH OR 44.6N 124.0W 1131 0.21M/ 0.7FT 16

CRESCENT CITY CA 41.7N 124.2W 1305 1.13M/ 3.7FT 22

WINTER HARBOUR CA 50.5N 128.0W 0709 0.27M/ 0.9FT 42

BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

OUVEA NEW CALEDONIA 20.5S 166.6E 1057 0.14M/ 0.4FT 30

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

VANUATU 17.8S 168.3E 1044 0.42M/ 1.4FT 16

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

LUGANVILLE VU 15.5S 167.2E 0958 0.21M/ 0.7FT 52

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 18

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

1836 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... HAWAII... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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)

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

CHIMBOTE PERU 9.0S 78.8W 1741 07/30

SAN JUAN PERU 15.3S 75.2W 1749 07/30

MOLLENDO PERU 17.1S 72.0W 1822 07/30

ARICA CHILE 18.5S 70.3W 1840 07/30

IQUIQUE CHILE 20.2S 70.1W 1845 07/30

ANTOFAGASTA CHILE 23.3S 70.4W 1854 07/30

CALDERA CHILE 27.1S 70.8W 1916 07/30

COQUIMBO CHILE 29.9S 71.4W 1926 07/30

VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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

\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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

CALLAO LA-PUNTA PE 12.1S 77.2W 1811 0.24M/ 0.8FT 48

OUINNE NEW CALEDONI 22.0S 166.7E 1510 0.27M/ 0.9FT 14

VANUATU 17.8S 168.3E 1101 0.45M/ 1.5FT 22

OUVEA NEW CALEDONIA 20.5S 166.6E 1321 0.18M/ 0.6FT 24

LUGANVILLE VU 15.5S 167.2E 1309 0.42M/ 1.4FT 28

PORT TAURANGA NZ 37.6S 176.2E 1622 0.16M/ 0.5FT 46

OWENGA CHATHAM NZ 44.0S 176.4W 1724 0.34M/ 1.1FT 26

FARE UTE TAHITI 17.5S 149.6W 1210 0.23M/ 0.7FT 18

PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

SALINA CRUZ MX 16.2N 95.2W 1408 0.23M/ 0.8FT 54

EASTER CL 27.2S 109.4W 1655 0.38M/ 1.2FT 06

TOSASHIMIZU SHIKOKU 32.8N 133.0E 1608 0.49M/ 1.6FT 22

OFUNATO HONSHU JP 39.0N 141.8E 0507 0.27M/ 0.9FT 10

DART 01003 23.4S 173.4W 1217 0.02M/ 0.1FT 16

ZIHUATANEJO MX 17.6N 101.6W 1417 0.25M/ 0.8FT 06

MANZANILLO MX 19.1N 104.3W 1303 0.53M/ 1.7FT 42

SAND POINT AK 55.3N 160.5W 1432 0.24M/ 0.8FT 26

TOFINO CA 49.2N 125.9W 1142 0.22M/ 0.7FT 22

SOUTH BEACH OR 44.6N 124.0W 1131 0.21M/ 0.7FT 16

CRESCENT CITY CA 41.7N 124.2W 1305 1.13M/ 3.7FT 22

WINTER HARBOUR CA 50.5N 128.0W 0709 0.27M/ 0.9FT 42

BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 19

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

2027 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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

\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM.. HAWAII... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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

\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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

\* 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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VALPARAISO CHILE 33.0S 71.6W 1942 07/30

TALCAHUANO CHILE 36.7S 73.1W 2006 07/30

CORRAL CHILE 39.8S 73.5W 2024 07/30

GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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

\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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

\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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CALDERA CL 27.1S 70.8W 1958 0.38M/ 1.2FT 20

CHANARAL CL 26.4S 70.6W 1959 0.45M/ 1.5FT 20

TOCOPILLA CL 23.7S 70.4W 1924 0.18M/ 0.6FT 20

JUAN FERNANDEZ CL 33.6S 78.8W 1937 0.08M/ 0.3FT 16

CALLAO LA-PUNTA PE 12.1S 77.2W 1927 0.47M/ 1.5FT 42

IQUIQUE CL 20.2S 70.1W 1932 0.20M/ 0.6FT 14

LAZARO CARDENAS MX 17.9N 102.2W 1603 0.13M/ 0.4FT 44

TUBUAI PF 23.3S 149.5W 1211 0.17M/ 0.6FT 20

SOVETSKAJA GAVAN RU 49.0N 140.3E 1654 0.15M/ 0.5FT 58

EASTER CL 27.2S 109.4W 1829 0.51M/ 1.7FT 04

OUINNE NEW CALEDONI 22.0S 166.7E 1510 0.27M/ 0.9FT 14

VANUATU 17.8S 168.3E 1101 0.45M/ 1.5FT 22

OUVEA NEW CALEDONIA 20.5S 166.6E 1321 0.18M/ 0.6FT 24

LUGANVILLE VU 15.5S 167.2E 1309 0.42M/ 1.4FT 28

PORT TAURANGA NZ 37.6S 176.2E 1622 0.16M/ 0.5FT 46

OWENGA CHATHAM NZ 44.0S 176.4W 1724 0.34M/ 1.1FT 26

FARE UTE TAHITI 17.5S 149.6W 1210 0.23M/ 0.7FT 18

PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

SALINA CRUZ MX 16.2N 95.2W 1408 0.23M/ 0.8FT 54

TOSASHIMIZU SHIKOKU 32.8N 133.0E 1608 0.49M/ 1.6FT 22

OFUNATO HONSHU JP 39.0N 141.8E 0507 0.27M/ 0.9FT 10

DART 01003 23.4S 173.4W 1217 0.02M/ 0.1FT 16

ZIHUATANEJO MX 17.6N 101.6W 1417 0.25M/ 0.8FT 06

MANZANILLO MX 19.1N 104.3W 1303 0.53M/ 1.7FT 42

SAND POINT AK 55.3N 160.5W 1432 0.24M/ 0.8FT 26

TOFINO CA 49.2N 125.9W 1142 0.22M/ 0.7FT 22

SOUTH BEACH OR 44.6N 124.0W 1131 0.21M/ 0.7FT 16

CRESCENT CITY CA 41.7N 124.2W 1305 1.13M/ 3.7FT 22

WINTER HARBOUR CA 50.5N 128.0W 0709 0.27M/ 0.9FT 42

BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

MONTEREY HARBOR CA 36.6N 121.9W 0810 0.35M/ 1.2FT 38

PORT SAN LUIS CA 35.2N 120.8W 0933 0.86M/ 2.8FT 18

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

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\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

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\* COASTAL REGIONS OF HAWAII... AMERICAN SAMOA... GUAM... AND

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\* COASTAL REGIONS OF CALIFORNIA... OREGON... WASHINGTON...

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NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND

AT WWW.TSUNAMI.GOV.

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TSUNAMI MESSAGE NUMBER 20

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

2136 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

----------

\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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

\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... HAWAII... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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

\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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

\* 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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GOLFO DE PENAS CHILE 47.1S 74.9W 2104 07/30

PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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

\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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FT POINT SAN FRAN 37.8N 122.5W 0913 0.41M/ 1.3FT 34

PORT SAN LUIS CA 35.2N 120.8W 0932 0.85M/ 2.8FT 22

MONTEREY HARBOR CA 36.6N 121.9W 1144 0.43M/ 1.4FT 32

ADAK AK 51.9N 176.6W 0600 0.63M/ 2.1FT 42

IQUIQUE CL 20.2S 70.1W 2111 0.31M/ 1.0FT 12

TOCOPILLA CL 22.1S 70.2W 2057 0.23M/ 0.8FT 10

CHANARAL CL 26.4S 70.6W 2031 0.56M/ 1.8FT 32

SOSUNOVO RU 46.5N 138.3E 1756 0.07M/ 0.2FT 48

HUASCO CL 28.5S 71.2W 2024 0.36M/ 1.2FT 18

CALDERA CL 27.1S 70.8W 2050 0.42M/ 1.4FT 22

PORT KEMBLA AU 34.5S 150.9E 1523 0.09M/ 0.3FT 62

GOLD COAST SAND BYP 27.9S 153.4E 1617 0.21M/ 0.7FT 84

SPRING BAY AU 42.5S 147.9E 1806 0.19M/ 0.6FT 74

COQUIMBO CL 29.9S 71.3W 2021 0.56M/ 1.8FT 24

VALPARAISO CL 33.0S 71.6W 2030 0.28M/ 0.9FT 24

CALLAO LA-PUNTA PE 12.1S 77.2W 2012 0.70M/ 2.3FT 44

PAPOSO CL 25.0S 70.5W 2027 0.37M/ 1.2FT 10

TOCOPILLA CL 23.7S 70.4W 1924 0.18M/ 0.6FT 20

JUAN FERNANDEZ CL 33.6S 78.8W 1937 0.08M/ 0.3FT 16

LAZARO CARDENAS MX 17.9N 102.2W 1603 0.13M/ 0.4FT 44

TUBUAI PF 23.3S 149.5W 1211 0.17M/ 0.6FT 20

SOVETSKAJA GAVAN RU 49.0N 140.3E 1654 0.15M/ 0.5FT 58

EASTER CL 27.2S 109.4W 1829 0.51M/ 1.7FT 04

OUINNE NEW CALEDONI 22.0S 166.7E 1510 0.27M/ 0.9FT 14

VANUATU 17.8S 168.3E 1101 0.45M/ 1.5FT 22

OUVEA NEW CALEDONIA 20.5S 166.6E 1321 0.18M/ 0.6FT 24

LUGANVILLE VU 15.5S 167.2E 1309 0.42M/ 1.4FT 28

PORT TAURANGA NZ 37.6S 176.2E 1622 0.16M/ 0.5FT 46

OWENGA CHATHAM NZ 44.0S 176.4W 1724 0.34M/ 1.1FT 26

FARE UTE TAHITI 17.5S 149.6W 1210 0.23M/ 0.7FT 18

PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

SALINA CRUZ MX 16.2N 95.2W 1408 0.23M/ 0.8FT 54

TOSASHIMIZU SHIKOKU 32.8N 133.0E 1608 0.49M/ 1.6FT 22

OFUNATO HONSHU JP 39.0N 141.8E 0507 0.27M/ 0.9FT 10

DART 01003 23.4S 173.4W 1217 0.02M/ 0.1FT 16

ZIHUATANEJO MX 17.6N 101.6W 1417 0.25M/ 0.8FT 06

MANZANILLO MX 19.1N 104.3W 1303 0.53M/ 1.7FT 42

SAND POINT AK 55.3N 160.5W 1432 0.24M/ 0.8FT 26

TOFINO CA 49.2N 125.9W 1142 0.22M/ 0.7FT 22

SOUTH BEACH OR 44.6N 124.0W 1131 0.21M/ 0.7FT 16

CRESCENT CITY CA 41.7N 124.2W 1305 1.13M/ 3.7FT 22

WINTER HARBOUR CA 50.5N 128.0W 0709 0.27M/ 0.9FT 42

BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

APIA UPOLU WS 13.8S 171.8W 0943 0.70M/ 2.3FT 18

PAGO PAGO AS 14.3S 170.7W 0929 0.25M/ 0.8FT 20

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 21

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

2236 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... HAWAII... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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LAZARO CARDENAS MX 17.9N 102.2W 2217 0.14M/ 0.5FT 20

ZIHUATANEJO MX 17.6N 101.6W 2216 0.58M/ 1.9FT 20

APIA UPOLU WS 13.8S 171.8W 0943 0.81M/ 2.7FT 14

PAGO PAGO AS 14.3S 170.7W 1006 0.95M/ 3.1FT 14

VALPARAISO CL 33.0S 71.6W 2201 0.54M/ 1.8FT 50

COQUIMBO CL 29.9S 71.3W 2206 0.66M/ 2.2FT 28

ALAMEDA CA 37.8N 122.3W 0936 0.33M/ 1.1FT 32

QUINTERO CL 32.8S 71.5W 2147 0.64M/ 2.1FT 24

COLIUMO CL 36.5S 73.0W 2106 0.59M/ 1.9FT 26

CORRAL CL 39.9S 73.4W 2127 0.28M/ 0.9FT 28

ANTOFAGASTA CL 23.7S 70.4W 2137 0.39M/ 1.3FT 04

DART 21419 44.4N 155.7E 0151 0.09M/ 0.3FT 42

IQUIQUE CL 20.2S 70.1W 2117 0.37M/ 1.2FT 26

FT POINT SAN FRAN 37.8N 122.5W 0913 0.41M/ 1.3FT 34

PORT SAN LUIS CA 35.2N 120.8W 0932 0.85M/ 2.8FT 22

MONTEREY HARBOR CA 36.6N 121.9W 1144 0.43M/ 1.4FT 32

ADAK AK 51.9N 176.6W 0600 0.63M/ 2.1FT 42

TOCOPILLA CL 22.1S 70.2W 2057 0.23M/ 0.8FT 10

CHANARAL CL 26.4S 70.6W 2031 0.56M/ 1.8FT 32

SOSUNOVO RU 46.5N 138.3E 1756 0.07M/ 0.2FT 48

HUASCO CL 28.5S 71.2W 2024 0.36M/ 1.2FT 18

CALDERA CL 27.1S 70.8W 2050 0.42M/ 1.4FT 22

PORT KEMBLA AU 34.5S 150.9E 1523 0.09M/ 0.3FT 62

GOLD COAST SAND BYP 27.9S 153.4E 1617 0.21M/ 0.7FT 84

SPRING BAY AU 42.5S 147.9E 1806 0.19M/ 0.6FT 74

CALLAO LA-PUNTA PE 12.1S 77.2W 2012 0.70M/ 2.3FT 44

PAPOSO CL 25.0S 70.5W 2027 0.37M/ 1.2FT 10

TOCOPILLA CL 23.7S 70.4W 1924 0.18M/ 0.6FT 20

JUAN FERNANDEZ CL 33.6S 78.8W 1937 0.08M/ 0.3FT 16

TUBUAI PF 23.3S 149.5W 1211 0.17M/ 0.6FT 20

SOVETSKAJA GAVAN RU 49.0N 140.3E 1654 0.15M/ 0.5FT 58

EASTER CL 27.2S 109.4W 1829 0.51M/ 1.7FT 04

OUINNE NEW CALEDONI 22.0S 166.7E 1510 0.27M/ 0.9FT 14

VANUATU 17.8S 168.3E 1101 0.45M/ 1.5FT 22

OUVEA NEW CALEDONIA 20.5S 166.6E 1321 0.18M/ 0.6FT 24

LUGANVILLE VU 15.5S 167.2E 1309 0.42M/ 1.4FT 28

PORT TAURANGA NZ 37.6S 176.2E 1622 0.16M/ 0.5FT 46

OWENGA CHATHAM NZ 44.0S 176.4W 1724 0.34M/ 1.1FT 26

FARE UTE TAHITI 17.5S 149.6W 1210 0.23M/ 0.7FT 18

PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

SALINA CRUZ MX 16.2N 95.2W 1408 0.23M/ 0.8FT 54

TOSASHIMIZU SHIKOKU 32.8N 133.0E 1608 0.49M/ 1.6FT 22

OFUNATO HONSHU JP 39.0N 141.8E 0507 0.27M/ 0.9FT 10

DART 01003 23.4S 173.4W 1217 0.02M/ 0.1FT 16

MANZANILLO MX 19.1N 104.3W 1303 0.53M/ 1.7FT 42

SAND POINT AK 55.3N 160.5W 1432 0.24M/ 0.8FT 26

TOFINO CA 49.2N 125.9W 1142 0.22M/ 0.7FT 22

SOUTH BEACH OR 44.6N 124.0W 1131 0.21M/ 0.7FT 16

CRESCENT CITY CA 41.7N 124.2W 1305 1.13M/ 3.7FT 22

WINTER HARBOUR CA 50.5N 128.0W 0709 0.27M/ 0.9FT 42

BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

HIENGHENE NEW CALED 20.7S 164.9E 1052 0.34M/ 1.1FT 28

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

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NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND

AT WWW.TSUNAMI.GOV.

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TSUNAMI MESSAGE NUMBER 22

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

2338 UTC WED JUL 30 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

----------

\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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

\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... HAWAII... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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

\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

ESTIMATED TIMES OF ARRIVAL

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\* 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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PUERTO MONTT CHILE 41.5S 73.0W 2300 07/30

POTENTIAL IMPACTS

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\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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DAVAO PH 7.2N 125.7E 2254 0.21M/ 0.7FT 34

BAHIA MANSA CL 40.6S 73.7W 2308 0.86M/ 2.8FT 18

SALINA CRUZ MX 16.2N 95.2W 2327 0.51M/ 1.7FT 20

HIENGHENE NEW CALED 20.7S 164.9E 1151 0.44M/ 1.4FT 32

COLIUMO CL 36.5S 73.0W 2240 0.86M/ 2.8FT 22

COQUIMBO CL 29.9S 71.3W 2244 0.85M/ 2.8FT 28

JACKSON BAY NZ 44.0S 168.6E 2154 0.18M/ 0.6FT 16

LAZARO CARDENAS MX 17.9N 102.2W 2217 0.14M/ 0.5FT 20

ZIHUATANEJO MX 17.6N 101.6W 2216 0.58M/ 1.9FT 20

APIA UPOLU WS 13.8S 171.8W 0943 0.81M/ 2.7FT 14

PAGO PAGO AS 14.3S 170.7W 1006 0.95M/ 3.1FT 14

VALPARAISO CL 33.0S 71.6W 2201 0.54M/ 1.8FT 50

ALAMEDA CA 37.8N 122.3W 0936 0.33M/ 1.1FT 32

QUINTERO CL 32.8S 71.5W 2147 0.64M/ 2.1FT 24

CORRAL CL 39.9S 73.4W 2127 0.28M/ 0.9FT 28

ANTOFAGASTA CL 23.7S 70.4W 2137 0.39M/ 1.3FT 04

DART 21419 44.4N 155.7E 0151 0.09M/ 0.3FT 42

IQUIQUE CL 20.2S 70.1W 2117 0.37M/ 1.2FT 26

FT POINT SAN FRAN 37.8N 122.5W 0913 0.41M/ 1.3FT 34

PORT SAN LUIS CA 35.2N 120.8W 0932 0.85M/ 2.8FT 22

MONTEREY HARBOR CA 36.6N 121.9W 1144 0.43M/ 1.4FT 32

ADAK AK 51.9N 176.6W 0600 0.63M/ 2.1FT 42

TOCOPILLA CL 22.1S 70.2W 2057 0.23M/ 0.8FT 10

CHANARAL CL 26.4S 70.6W 2031 0.56M/ 1.8FT 32

SOSUNOVO RU 46.5N 138.3E 1756 0.07M/ 0.2FT 48

HUASCO CL 28.5S 71.2W 2024 0.36M/ 1.2FT 18

CALDERA CL 27.1S 70.8W 2050 0.42M/ 1.4FT 22

PORT KEMBLA AU 34.5S 150.9E 1523 0.09M/ 0.3FT 62

GOLD COAST SAND BYP 27.9S 153.4E 1617 0.21M/ 0.7FT 84

SPRING BAY AU 42.5S 147.9E 1806 0.19M/ 0.6FT 74

CALLAO LA-PUNTA PE 12.1S 77.2W 2012 0.70M/ 2.3FT 44

PAPOSO CL 25.0S 70.5W 2027 0.37M/ 1.2FT 10

TOCOPILLA CL 23.7S 70.4W 1924 0.18M/ 0.6FT 20

JUAN FERNANDEZ CL 33.6S 78.8W 1937 0.08M/ 0.3FT 16

TUBUAI PF 23.3S 149.5W 1211 0.17M/ 0.6FT 20

SOVETSKAJA GAVAN RU 49.0N 140.3E 1654 0.15M/ 0.5FT 58

EASTER CL 27.2S 109.4W 1829 0.51M/ 1.7FT 04

OUINNE NEW CALEDONI 22.0S 166.7E 1510 0.27M/ 0.9FT 14

VANUATU 17.8S 168.3E 1101 0.45M/ 1.5FT 22

OUVEA NEW CALEDONIA 20.5S 166.6E 1321 0.18M/ 0.6FT 24

LUGANVILLE VU 15.5S 167.2E 1309 0.42M/ 1.4FT 28

PORT TAURANGA NZ 37.6S 176.2E 1622 0.16M/ 0.5FT 46

OWENGA CHATHAM NZ 44.0S 176.4W 1724 0.34M/ 1.1FT 26

FARE UTE TAHITI 17.5S 149.6W 1210 0.23M/ 0.7FT 18

PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

TOSASHIMIZU SHIKOKU 32.8N 133.0E 1608 0.49M/ 1.6FT 22

OFUNATO HONSHU JP 39.0N 141.8E 0507 0.27M/ 0.9FT 10

DART 01003 23.4S 173.4W 1217 0.02M/ 0.1FT 16

MANZANILLO MX 19.1N 104.3W 1303 0.53M/ 1.7FT 42

SAND POINT AK 55.3N 160.5W 1432 0.24M/ 0.8FT 26

TOFINO CA 49.2N 125.9W 1142 0.22M/ 0.7FT 22

SOUTH BEACH OR 44.6N 124.0W 1131 0.21M/ 0.7FT 16

CRESCENT CITY CA 41.7N 124.2W 1305 1.13M/ 3.7FT 22

WINTER HARBOUR CA 50.5N 128.0W 0709 0.27M/ 0.9FT 42

BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

RIKITEA PF 23.1S 135.0W 1312 0.06M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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.

\* 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.

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TSUNAMI MESSAGE NUMBER 23

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0037 UTC THU JUL 31 2025

...PTWC TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* TSUNAMI WAVES HAVE BEEN OBSERVED.

\* BASED ON ALL AVAILABLE DATA... HAZARDOUS TSUNAMI WAVES ARE

FORECAST FOR SOME COASTS.

TSUNAMI THREAT FORECAST

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\* TSUNAMI WAVES REACHING MORE THAN 3 METERS ABOVE THE TIDE

LEVEL ARE POSSIBLE ALONG SOME COASTS OF

ECUADOR... NORTHWESTERN HAWAIIAN ISLANDS... AND RUSSIA.

\* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE

POSSIBLE ALONG SOME COASTS OF

CHILE... COSTA RICA... FRENCH

POLYNESIA... JAPAN... JARVIS ISLAND...

JOHNSTON ATOLL... KIRIBATI... MIDWAY ISLAND... PALMYRA

ISLAND... PERU... SAMOA... AND SOLOMON ISLANDS.

\* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL

ARE POSSIBLE FOR SOME COASTS OF

ANTARCTICA... AUSTRALIA... CHUUK... COLOMBIA... COOK

ISLANDS... EL SALVADOR... FIJI... GUATEMALA... HOWLAND AND

BAKER... INDONESIA... KERMADEC ISLANDS... KOSRAE...

MARSHALL ISLANDS... MEXICO... NAURU... NEW CALEDONIA...

NEW ZEALAND... NICARAGUA... NIUE... NORTHERN MARIANAS...

PALAU... PANAMA... PAPUA NEW GUINEA... PHILIPPINES...

PITCAIRN ISLANDS... POHNPEI... TAIWAN... TOKELAU...

TONGA... TUVALU... VANUATU... WAKE ISLAND... WALLIS AND

FUTUNA... AMERICAN SAMOA... GUAM... HAWAII... AND YAP.

\* TSUNAMI WAVES ARE FORECAST TO BE LESS THAN 0.3 METERS ABOVE

THE TIDE LEVEL FOR THE COASTS OF

BRUNEI... CHINA... DPR OF KOREA... MALAYSIA... REPUBLIC OF

KOREA... AND VIETNAM.

\* 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.

\* FOR OTHER AREAS COVERED BY THIS PRODUCT A FORECAST HAS NOT

YET BEEN COMPUTED. THE FORECAST WILL BE EXPANDED IF

NECESSARY IN SUBSEQUENT PRODUCTS.

RECOMMENDED ACTIONS

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

\* 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.

\* PERSONS LOCATED IN THREATENED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM NATIONAL AND

LOCAL AUTHORITIES.

POTENTIAL IMPACTS

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

\* 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.

\* IMPACTS CAN VARY SIGNIFICANTLY FROM ONE SECTION OF COAST TO

THE NEXT DUE TO LOCAL BATHYMETRY AND THE SHAPE AND ELEVATION

OF THE SHORELINE.

\* IMPACTS CAN ALSO VARY DEPENDING UPON THE STATE OF THE TIDE AT

THE TIME OF THE MAXIMUM TSUNAMI WAVES.

\* PERSONS CAUGHT IN THE WATER OF A TSUNAMI MAY DROWN... BE

CRUSHED BY DEBRIS IN THE WATER... OR BE SWEPT OUT TO SEA.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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LAZARO CARDENAS MX 17.9N 102.2W 2348 0.17M/ 0.5FT 18

ANTARCTICA BASE PRA 62.5S 59.7W 2339 0.14M/ 0.5FT 22

SAN DIEGO CA 32.7N 117.2W 1304 0.22M/ 0.7FT 48

CALDERA CL 27.1S 70.8W 2355 0.73M/ 2.4FT 20

QUINTERO CL 32.8S 71.5W 2333 1.09M/ 3.6FT 18

RIKITEA PF 23.1S 135.0W 1406 0.26M/ 0.9FT 46

CORONEL CL 37.0S 73.2W 2311 0.55M/ 1.8FT 42

HUATULCO MX 15.8N 96.1W 2104 0.51M/ 1.7FT 10

HUATALCO MX 15.8N 96.1W 2300 0.31M/ 1.0FT 12

COLIUMO CL 36.5S 73.0W 2247 1.12M/ 3.7FT 28

DAVAO PH 7.2N 125.7E 2254 0.21M/ 0.7FT 34

BAHIA MANSA CL 40.6S 73.7W 2308 0.86M/ 2.8FT 18

SALINA CRUZ MX 16.2N 95.2W 2327 0.51M/ 1.7FT 20

HIENGHENE NEW CALED 20.7S 164.9E 1151 0.44M/ 1.4FT 32

COQUIMBO CL 29.9S 71.3W 2244 0.85M/ 2.8FT 28

JACKSON BAY NZ 44.0S 168.6E 2154 0.18M/ 0.6FT 16

LAZARO CARDENAS MX 17.9N 102.2W 2217 0.14M/ 0.5FT 20

ZIHUATANEJO MX 17.6N 101.6W 2216 0.58M/ 1.9FT 20

APIA UPOLU WS 13.8S 171.8W 0943 0.81M/ 2.7FT 14

PAGO PAGO AS 14.3S 170.7W 1006 0.95M/ 3.1FT 14

VALPARAISO CL 33.0S 71.6W 2201 0.54M/ 1.8FT 50

ALAMEDA CA 37.8N 122.3W 0936 0.33M/ 1.1FT 32

CORRAL CL 39.9S 73.4W 2127 0.28M/ 0.9FT 28

ANTOFAGASTA CL 23.7S 70.4W 2137 0.39M/ 1.3FT 04

DART 21419 44.4N 155.7E 0151 0.09M/ 0.3FT 42

IQUIQUE CL 20.2S 70.1W 2117 0.37M/ 1.2FT 26

FT POINT SAN FRAN 37.8N 122.5W 0913 0.41M/ 1.3FT 34

PORT SAN LUIS CA 35.2N 120.8W 0932 0.85M/ 2.8FT 22

MONTEREY HARBOR CA 36.6N 121.9W 1144 0.43M/ 1.4FT 32

ADAK AK 51.9N 176.6W 0600 0.63M/ 2.1FT 42

TOCOPILLA CL 22.1S 70.2W 2057 0.23M/ 0.8FT 10

CHANARAL CL 26.4S 70.6W 2031 0.56M/ 1.8FT 32

SOSUNOVO RU 46.5N 138.3E 1756 0.07M/ 0.2FT 48

HUASCO CL 28.5S 71.2W 2024 0.36M/ 1.2FT 18

PORT KEMBLA AU 34.5S 150.9E 1523 0.09M/ 0.3FT 62

GOLD COAST SAND BYP 27.9S 153.4E 1617 0.21M/ 0.7FT 84

SPRING BAY AU 42.5S 147.9E 1806 0.19M/ 0.6FT 74

CALLAO LA-PUNTA PE 12.1S 77.2W 2012 0.70M/ 2.3FT 44

PAPOSO CL 25.0S 70.5W 2027 0.37M/ 1.2FT 10

TOCOPILLA CL 23.7S 70.4W 1924 0.18M/ 0.6FT 20

JUAN FERNANDEZ CL 33.6S 78.8W 1937 0.08M/ 0.3FT 16

TUBUAI PF 23.3S 149.5W 1211 0.17M/ 0.6FT 20

SOVETSKAJA GAVAN RU 49.0N 140.3E 1654 0.15M/ 0.5FT 58

EASTER CL 27.2S 109.4W 1829 0.51M/ 1.7FT 04

OUINNE NEW CALEDONI 22.0S 166.7E 1510 0.27M/ 0.9FT 14

VANUATU 17.8S 168.3E 1101 0.45M/ 1.5FT 22

OUVEA NEW CALEDONIA 20.5S 166.6E 1321 0.18M/ 0.6FT 24

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PORT TAURANGA NZ 37.6S 176.2E 1622 0.16M/ 0.5FT 46

OWENGA CHATHAM NZ 44.0S 176.4W 1724 0.34M/ 1.1FT 26

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PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

TOSASHIMIZU SHIKOKU 32.8N 133.0E 1608 0.49M/ 1.6FT 22

OFUNATO HONSHU JP 39.0N 141.8E 0507 0.27M/ 0.9FT 10

DART 01003 23.4S 173.4W 1217 0.02M/ 0.1FT 16

MANZANILLO MX 19.1N 104.3W 1303 0.53M/ 1.7FT 42

SAND POINT AK 55.3N 160.5W 1432 0.24M/ 0.8FT 26

TOFINO CA 49.2N 125.9W 1142 0.22M/ 0.7FT 22

SOUTH BEACH OR 44.6N 124.0W 1131 0.21M/ 0.7FT 16

CRESCENT CITY CA 41.7N 124.2W 1305 1.13M/ 3.7FT 22

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BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

SANTA BARBARA CA 34.4N 119.7W 0947 0.33M/ 1.1FT 14

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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\* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF

THE SITUATION WARRANTS.

\* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S.

GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT

EARTHQUAKE.USGS.GOV.

\* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT

WWW.TSUNAMI.GOV.

\* 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

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BRITISH COLUMBIA AND ALASKA SHOULD ONLY REFER TO U.S.

NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND

AT WWW.TSUNAMI.GOV.

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TSUNAMI MESSAGE NUMBER 24

NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI

0157 UTC THU JUL 31 2025

...PTWC FINAL TSUNAMI THREAT MESSAGE...

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

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.

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 \*\*\*\*\*

THE TSUNAMI FORECAST IS UNCHANGED IN THIS MESSAGE.

PRELIMINARY EARTHQUAKE PARAMETERS

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\* MAGNITUDE 8.8

\* ORIGIN TIME 2325 UTC JUL 29 2025

\* COORDINATES 52.2 NORTH 160.0 EAST

\* DEPTH 74 KM / 46 MILES

\* LOCATION OFF THE EAST COAST OF KAMCHATKA RUSSIA

EVALUATION

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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.8 OCCURRED

OFF THE EAST COAST OF KAMCHATKA, RUSSIA AT 2325 UTC ON

TUESDAY JULY 29 2025.

\* THE TSUNAMI HAS TRAVELED ACROSS THE ENTIRE PACIFIC BASIN.

\* TSUNAMI AMPLITUDES ARE BELOW HAZARDOUS LEVELS IN MOST

LOCATIONS.

\* BASED ON ALL AVAILABLE DATA... THE TSUNAMI THREAT FROM THIS

EARTHQUAKE HAS NOW LARGELY PASSED.

TSUNAMI THREAT FORECAST...UPDATED

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\* THE TSUNAMI THREAT HAS NOW LARGELY PASSED.

RECOMMENDED ACTIONS

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\* 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.

\* PERSONS LOCATED NEAR IMPACTED COASTAL AREAS SHOULD STAY ALERT

FOR INFORMATION AND FOLLOW INSTRUCTIONS FROM LOCAL

AUTHORITIES.

\* REMAIN OBSERVANT AND EXERCISE NORMAL CAUTION NEAR THE SEA.

POTENTIAL IMPACTS

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\* MINOR SEA LEVEL FLUCTUATIONS OF UP TO 0.3 METERS ABOVE AND

BELOW THE NORMAL TIDE ARE EXPECTED IN MOST LOCATIONS.

TSUNAMI OBSERVATIONS

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\* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL

AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED

LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH

RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE TIME OF MAXIMUM WAVE

COORDINATES MEASURE TSUNAMI PERIOD

GAUGE LOCATION LAT LON (UTC) HEIGHT (MIN)

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CORONEL CL 37.0S 73.2W 0129 1.03M/ 3.4FT 38

LEBU CL 37.6S 73.7W 2224 0.55M/ 1.8FT 16

PUERTO LOPEZ EC 1.6S 80.8W 2107 0.46M/ 1.5FT 16

LA LIBERTAD EC 2.2S 80.9W 2242 0.60M/ 2.0FT 20

PUERTO ATUN MANTA E 0.9S 80.7W 1954 0.34M/ 1.1FT 30

CORRAL CL 39.9S 73.4W 2315 0.52M/ 1.7FT 64

SANTA BARBARA CA 34.4N 119.7W 1412 0.46M/ 1.5FT 14

ANTARCTICA BASE PRA 62.5S 59.7W 0014 0.19M/ 0.6FT 22

LAZARO CARDENAS MX 17.9N 102.2W 2348 0.17M/ 0.5FT 18

SAN DIEGO CA 32.7N 117.2W 1304 0.22M/ 0.7FT 48

CALDERA CL 27.1S 70.8W 2355 0.73M/ 2.4FT 20

QUINTERO CL 32.8S 71.5W 2333 1.09M/ 3.6FT 18

RIKITEA PF 23.1S 135.0W 1406 0.26M/ 0.9FT 46

HUATULCO MX 15.8N 96.1W 2104 0.51M/ 1.7FT 10

HUATALCO MX 15.8N 96.1W 2300 0.31M/ 1.0FT 12

COLIUMO CL 36.5S 73.0W 2247 1.12M/ 3.7FT 28

DAVAO PH 7.2N 125.7E 2254 0.21M/ 0.7FT 34

BAHIA MANSA CL 40.6S 73.7W 2308 0.86M/ 2.8FT 18

SALINA CRUZ MX 16.2N 95.2W 2327 0.51M/ 1.7FT 20

HIENGHENE NEW CALED 20.7S 164.9E 1151 0.44M/ 1.4FT 32

COQUIMBO CL 29.9S 71.3W 2244 0.85M/ 2.8FT 28

JACKSON BAY NZ 44.0S 168.6E 2154 0.18M/ 0.6FT 16

LAZARO CARDENAS MX 17.9N 102.2W 2217 0.14M/ 0.5FT 20

ZIHUATANEJO MX 17.6N 101.6W 2216 0.58M/ 1.9FT 20

APIA UPOLU WS 13.8S 171.8W 0943 0.81M/ 2.7FT 14

PAGO PAGO AS 14.3S 170.7W 1006 0.95M/ 3.1FT 14

VALPARAISO CL 33.0S 71.6W 2201 0.54M/ 1.8FT 50

ALAMEDA CA 37.8N 122.3W 0936 0.33M/ 1.1FT 32

ANTOFAGASTA CL 23.7S 70.4W 2137 0.39M/ 1.3FT 04

DART 21419 44.4N 155.7E 0151 0.09M/ 0.3FT 42

IQUIQUE CL 20.2S 70.1W 2117 0.37M/ 1.2FT 26

FT POINT SAN FRAN 37.8N 122.5W 0913 0.41M/ 1.3FT 34

PORT SAN LUIS CA 35.2N 120.8W 0932 0.85M/ 2.8FT 22

MONTEREY HARBOR CA 36.6N 121.9W 1144 0.43M/ 1.4FT 32

ADAK AK 51.9N 176.6W 0600 0.63M/ 2.1FT 42

TOCOPILLA CL 22.1S 70.2W 2057 0.23M/ 0.8FT 10

CHANARAL CL 26.4S 70.6W 2031 0.56M/ 1.8FT 32

SOSUNOVO RU 46.5N 138.3E 1756 0.07M/ 0.2FT 48

HUASCO CL 28.5S 71.2W 2024 0.36M/ 1.2FT 18

PORT KEMBLA AU 34.5S 150.9E 1523 0.09M/ 0.3FT 62

GOLD COAST SAND BYP 27.9S 153.4E 1617 0.21M/ 0.7FT 84

SPRING BAY AU 42.5S 147.9E 1806 0.19M/ 0.6FT 74

CALLAO LA-PUNTA PE 12.1S 77.2W 2012 0.70M/ 2.3FT 44

PAPOSO CL 25.0S 70.5W 2027 0.37M/ 1.2FT 10

TOCOPILLA CL 23.7S 70.4W 1924 0.18M/ 0.6FT 20

JUAN FERNANDEZ CL 33.6S 78.8W 1937 0.08M/ 0.3FT 16

TUBUAI PF 23.3S 149.5W 1211 0.17M/ 0.6FT 20

SOVETSKAJA GAVAN RU 49.0N 140.3E 1654 0.15M/ 0.5FT 58

EASTER CL 27.2S 109.4W 1829 0.51M/ 1.7FT 04

OUINNE NEW CALEDONI 22.0S 166.7E 1510 0.27M/ 0.9FT 14

VANUATU 17.8S 168.3E 1101 0.45M/ 1.5FT 22

OUVEA NEW CALEDONIA 20.5S 166.6E 1321 0.18M/ 0.6FT 24

LUGANVILLE VU 15.5S 167.2E 1309 0.42M/ 1.4FT 28

PORT TAURANGA NZ 37.6S 176.2E 1622 0.16M/ 0.5FT 46

OWENGA CHATHAM NZ 44.0S 176.4W 1724 0.34M/ 1.1FT 26

FARE UTE TAHITI 17.5S 149.6W 1210 0.23M/ 0.7FT 18

PAPEETE TAHITI 17.5S 149.6W 1210 0.24M/ 0.8FT 22

TOSASHIMIZU SHIKOKU 32.8N 133.0E 1608 0.49M/ 1.6FT 22

OFUNATO HONSHU JP 39.0N 141.8E 0507 0.27M/ 0.9FT 10

DART 01003 23.4S 173.4W 1217 0.02M/ 0.1FT 16

MANZANILLO MX 19.1N 104.3W 1303 0.53M/ 1.7FT 42

SAND POINT AK 55.3N 160.5W 1432 0.24M/ 0.8FT 26

TOFINO CA 49.2N 125.9W 1142 0.22M/ 0.7FT 22

SOUTH BEACH OR 44.6N 124.0W 1131 0.21M/ 0.7FT 16

CRESCENT CITY CA 41.7N 124.2W 1305 1.13M/ 3.7FT 22

WINTER HARBOUR CA 50.5N 128.0W 0709 0.27M/ 0.9FT 42

BALTRA GALAPAGS EC 0.4S 90.3W 1621 1.04M/ 3.4FT 18

SANTACRUZ GALAPAGOS 0.7S 90.3W 1542 0.40M/ 1.3FT 40

RAROTONGA CK 21.2S 159.8W 1354 0.17M/ 0.6FT 04

HUAHINE PF 16.7S 151.0W 1108 0.15M/ 0.5FT 10

SUVA VITI LEVU FJ 18.1S 178.4E 1117 0.07M/ 0.2FT 22

NUKUALOFA TO 21.1S 175.2W 1122 0.17M/ 0.5FT 52

HIVA OA MARQUESAS 9.8S 139.0W 1239 0.52M/ 1.7FT 22

PUERTO VALLARTA MX 20.7N 105.2W 1258 0.16M/ 0.5FT 08

LITZLITZ VU 16.1S 167.4E 1003 0.34M/ 1.1FT 52

HONIARA SB 9.4S 160.0E 1000 0.10M/ 0.3FT 46

ALOFI NU 19.1S 169.9W 1022 0.12M/ 0.4FT 20

ARENA COVE CA 38.9N 123.7W 0923 0.79M/ 2.6FT 06

OFF OREGON COAST 45.8N 129.7W 0606 0.06M/ 0.2FT 52

OFU AS 14.2S 169.7W 0941 0.19M/ 0.6FT 20

CHARLESTON OR 43.3N 124.3W 0854 0.21M/ 0.7FT 20

LA PUSH WA 47.9N 124.6W 0741 0.23M/ 0.8FT 34

AUNUU AS 14.3S 170.6W 0944 0.28M/ 0.9FT 12

AUASI AS 14.3S 170.6W 0944 0.29M/ 0.9FT 10

TAREKUKURE WHARF SB 6.7S 156.4E 0838 0.41M/ 1.4FT 32

LOMBRUM MANUS IS PG 2.0S 147.4E 0753 0.25M/ 0.8FT 60

HANASAKI HOKKAIDO J 43.3N 145.6E 0544 0.79M/ 2.6FT 40

DART 51425 9.5S 176.2W 0815 0.04M/ 0.1FT 18

HONOKOHAU HI USA 19.7N 156.0W 0741 0.11M/ 0.4FT 10

KAWAIHAE HAWAII 20.0N 155.8W 0719 0.37M/ 1.2FT 14

DEKEHTIK POHNPEI FM 7.0N 158.2E 0634 0.10M/ 0.3FT 20

DART 52402 11.9N 153.9E 0507 0.06M/ 0.2FT 44

KAUNAKAKAI US 21.1N 157.0W 0620 0.23M/ 0.8FT 30

PAGO BAY GUAM US 13.4N 144.8E 0707 0.15M/ 0.5FT 10

HONOLULU OAHU 21.3N 157.9W 0658 0.33M/ 1.1FT 16

KAHULUI MAUI 20.9N 156.5W 0609 1.74M/ 5.7FT 34

DUTCH HBR UNALASKA 53.9N 166.5W 0406 0.32M/ 1.0FT 72

ATKA AK 52.2N 174.2W 0430 0.55M/ 1.8FT 38

NIKOLSKI AK 52.9N 168.9W 0548 0.41M/ 1.3FT 42

BARBERS PT HI 21.3N 158.1W 0638 0.19M/ 0.6FT 04

HEEIA HI USA 21.4N 157.8W 0558 0.12M/ 0.4FT 20

WAKKANI JP 45.4N 141.7E 0610 0.23M/ 0.8FT 56

PORT ALLEN HI USA 21.9N 159.6W 0630 0.42M/ 1.4FT 10

CHICHIJIMA JP 27.1N 142.2E 0627 0.49M/ 1.6FT 18

WAIANAE HI USA 21.5N 158.2W 0622 0.37M/ 1.2FT 10

HILO HAWAII 19.7N 155.1W 0623 1.50M/ 4.9FT 14

HANALEI HI 22.2N 159.5W 0548 1.17M/ 3.9FT 12

KEEHI HI USA 21.3N 157.9W 0612 0.19M/ 0.6FT 34

MAKAPU'U HI 21.3N 157.7W 0604 0.70M/ 2.3FT 14

HALEIWA HI 21.6N 158.1W 0548 1.21M/ 4.0FT 12

NAWILIWILI KAUAI 22.0N 159.4W 0536 0.23M/ 0.8FT 14

NAWILIWILI HI 22.0N 159.4W 0537 0.23M/ 0.7FT 12

HANALEI HI USA 22.2N 159.5W 0533 0.90M/ 3.0FT 20

WAKE US 19.3N 166.6E 0350 0.22M/ 0.7FT 14

MERA JP 34.9N 139.8E 0510 0.32M/ 1.1FT 24

APRA HARBOR GUAM US 13.4N 144.7E 0442 0.12M/ 0.4FT 56

SAIPAN US 15.2N 145.7E 0456 0.23M/ 0.7FT 60

MIDWAY 28.2N 177.4W 0400 0.96M/ 3.1FT 08

DART 46413 48.0N 174.2W 0144 0.19M/ 0.6FT 40

KUSHIRO JP 43.0N 144.4E 0121 0.33M/ 1.1FT 76

DART 21415 50.2N 171.9E 0117 0.20M/ 0.6FT 08

DART 21414 49.0N 178.2E 0103 0.28M/ 0.9FT 32

DART 21416 48.1N 163.5E 0003 0.90M/ 3.0FT 24

NEXT UPDATE AND ADDITIONAL INFORMATION

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