

ZCZC  
WEPA40 PHEB 010008  
TSUPAC

TSUNAMI MESSAGE NUMBER 1  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
0008 UCT WED OCT 1 2014

...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	8.6
* ORIGIN TIME	0000 UTC OCT 1 2014
* COORDINATES	11.4 SOUTH 78.7 WEST
* DEPTH	20 KM / 12 MILES
* LOCATION	OFF THE COAST OF CENTRAL PERU

#### EVALUATION

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- \* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 8.6 OCCURRED  
OFF THE COAST OF CENTRAL PERU AT 0000 UTC ON WEDNESDAY OCTOBER  
1 2014.
- \* BASED ON THE PRELIMINARY EARTHQUAKE PARAMETERS... HAZARDOUS  
TSUNAMI WAVES ARE POSSIBLE FOR SOME COASTS.

#### TSUNAMI THREAT FORECAST

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- \* HAZARDOUS TSUNAMI WAVES ARE POSSIBLE WITHIN THE NEXT THREE

## HOURS ALONG SOME COASTS OF

PERU... ECUADOR... CHILE AND COLOMBIA

- \* OTHER AREAS NOT MENTIONED ABOVE SHOULD REMAIN ALERT IN CASE THE TSUNAMI THREAT IS EXTENDED TO THEIR COAST.
- \* A MORE QUANTITATIVE TSUNAMI FORECAST IS NOT YET AVAILABLE DUE TO INSUFFICIENT INFORMATION ABOUT THE EARTHQUAKE AND TSUNAMI. THE SITUATION IS STILL BEING ANALYZED AND A MORE QUANTITATIVE FORECAST WILL BE PROVIDED AS SOON AS POSSIBLE.

## 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 OVER THE NEXT SIX HOURS. OBSERVED ARRIVAL TIMES MAY DIFFER AND THE INITIAL WAVE MAY NOT BE THE LARGEST.

LOCATION	REGION	COORDINATES		ETA(UTC)
LA PUNTA	PERU	12.1S	77.2W	0034 10/01
SAN JUAN	PERU	15.3S	75.2W	0051 10/01
TALARA	PERU	4.6S	81.5W	0104 10/01
CHIMBOTE	PERU	9.0S	78.8W	0110 10/01
MOLLENDO	PERU	17.1S	72.0W	0124 10/01
LA LIBERTAD	ECUADOR	2.2S	81.2W	0125 10/01
PIMENTAL	PERU	6.9S	80.0W	0136 10/01
ARICA	CHILE	18.5S	70.3W	0142 10/01
IQUIQUE	CHILE	20.2S	70.1W	0147 10/01
ANTOFAGASTA	CHILE	23.3S	70.4W	0156 10/01
ESMERELDAS	ECUADOR	1.2N	79.8W	0212 10/01
CALDERA	CHILE	27.1S	70.8W	0226 10/01
TUMACO	COLOMBIA	1.8N	78.9W	0232 10/01
COQUIMBO	CHILE	29.9S	71.4W	0251 10/01
BAHIA SOLANO	COLOMBIA	6.3N	77.4W	0303 10/01

PUERTO PINA	PANAMA	7.4N	78.0W	0313	10/01
VALPARAISO	CHILE	33.0S	71.6W	0315	10/01
PUNTA MALA	PANAMA	7.5N	80.0W	0315	10/01
BALTRA ISLAND	ECUADOR	0.5S	90.3W	0315	10/01
BUENAVENTURA	COLOMBIA	3.8N	77.2W	0319	10/01
CABO MATAPALO	COSTA RICA	8.4N	83.3W	0327	10/01
PUNTA BURICA	PANAMA	8.0N	82.9W	0327	10/01
TALCAHUANO	CHILE	36.7S	73.1W	0359	10/01
PUERTO QUEPOS	COSTA RICA	9.4N	84.2W	0400	10/01
CABO SAN ELENA	COSTA RICA	10.9N	86.0W	0417	10/01
CORRAL	CHILE	39.8S	73.5W	0431	10/01
SAN JUAN DL SUR	NICARAGUA	11.2N	85.9W	0443	10/01
PUERTO SANDINO	NICARAGUA	12.2N	86.8W	0455	10/01
CORINTO	NICARAGUA	12.5N	87.2W	0455	10/01
EASTER ISLAND	CHILE	27.1S	109.4W	0503	10/01
ACAJUTLA	EL SALVADOR	13.6N	89.8W	0514	10/01
SIPICATE	GUATEMALA	13.9N	91.2W	0528	10/01
BALBOA HEIGHTS	PANAMA	9.0N	79.6W	0531	10/01
PUERTO MADERO	MEXICO	14.8N	92.5W	0535	10/01
AMAPALA	HONDURAS	13.2N	87.6W	0541	10/01
GOLFO DE PENAS	CHILE	47.1S	74.9W	0543	10/01
ACAPULCO	MEXICO	16.9N	99.9W	0557	10/01
SALINA CRUZ	MEXICO	16.5N	95.2W	0559	10/01

#### 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 SWEEPED 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/EARTHQUAKES -ALL IN SMALL LETTERS-.

- \* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT  
PTWC.WEATHER.GOV AND AT WWW.TSUNAMI.GOV.
- \* COASTAL REGIONS OF HAWAII... AMERICAN SAMOA... GUAM... AND  
CNMI SHOULD REFER TO PACIFIC TSUNAMI WARNING CENTER MESSAGES  
FOR THOSE PLACES THAT CAN BE FOUND AT PTWC.WEATHER.GOV.
- \* COASTAL REGIONS OF CALIFORNIA... OREGON... WASHINGTON...  
BRITISH COLUMBIA AND ALASKA SHOULD REFER TO U.S. NATIONAL  
TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND AT  
NTWC.ARH.NOAA.GOV.

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# PTWC Coastal Tsunami Amplitude Forecast Polygons

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 will likely be much smaller than the forecast indicates.

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## Earthquake:

01 Oct 2014

00:00:00 Z

Lat: 11.40°S

Lon: 78.70°W

Depth: 20 km

$M_w$ : 9.00

Determined  
Earthquake  
Mechanism:



## Maximum Amplitude (m)

> 3 m

1 - 3 m

0.3 - 1 m

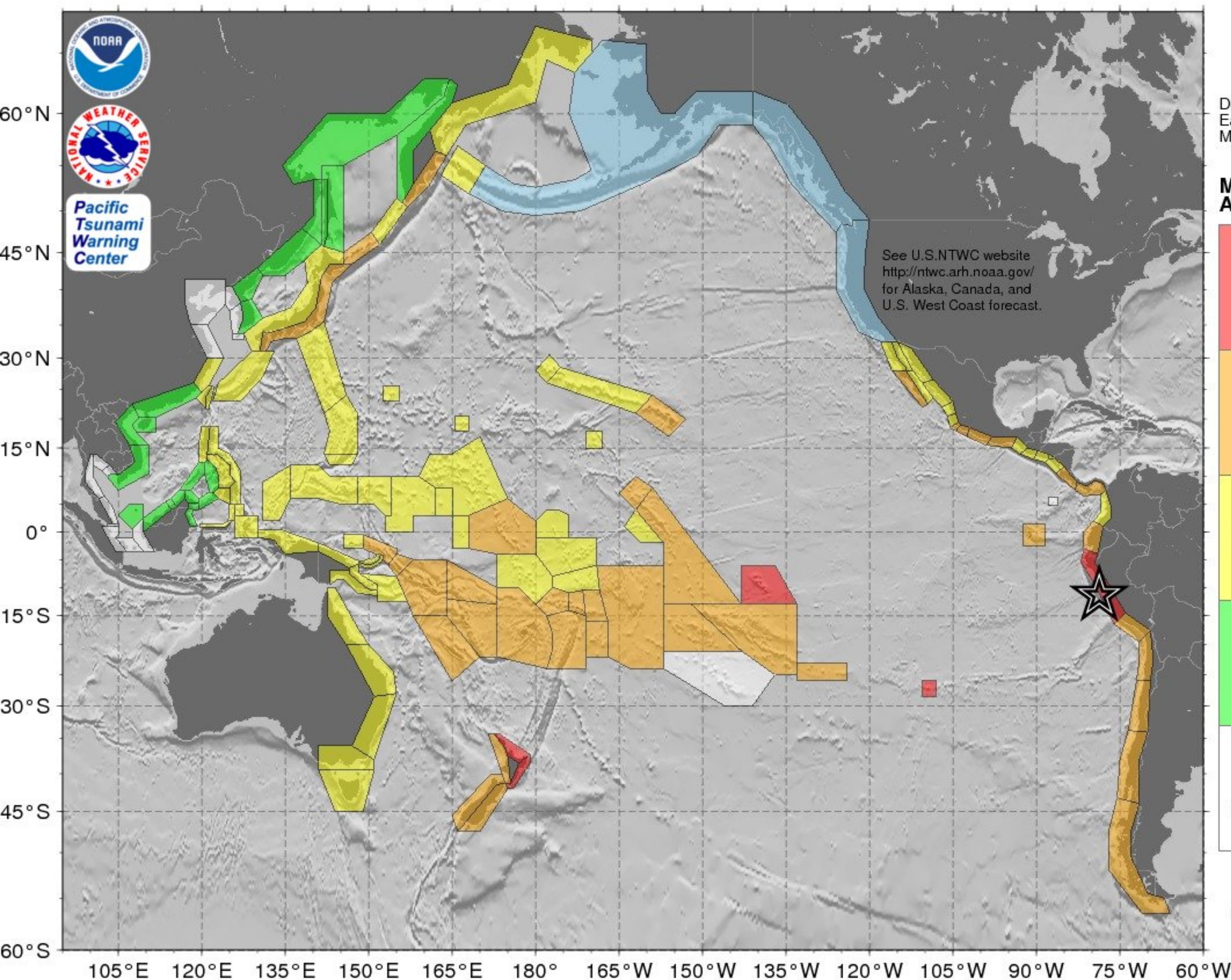
< 0.3 m

*Threat  
Not  
Computed*

model run at:

27 Aug 2014

15:33:21 Z

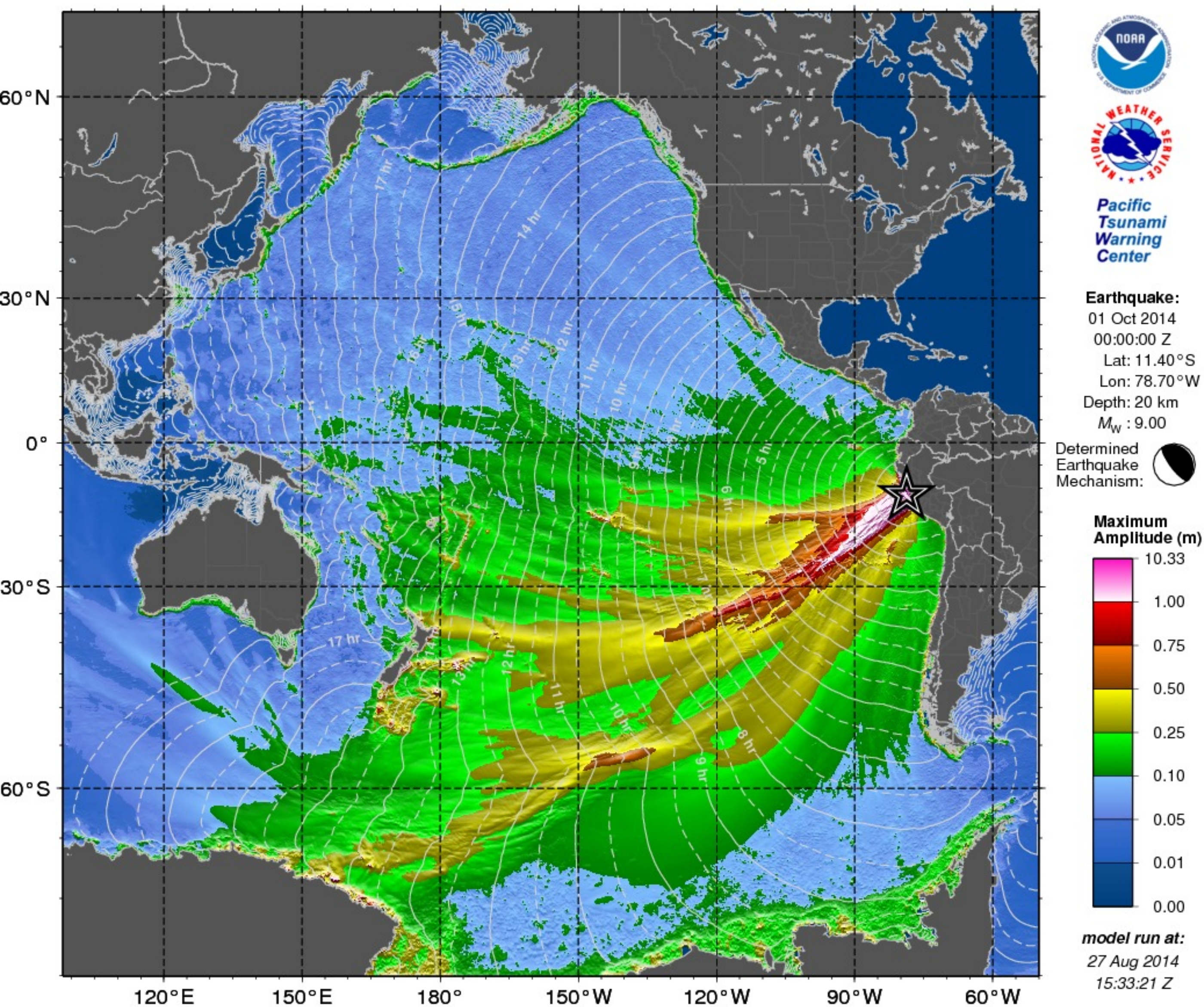




# PTWC Deep-Ocean Tsunami Amplitude Forecast

This map should not be used to estimate coastal tsunami amplitudes or impacts. Deep-ocean amplitudes are usually much smaller than coastal amplitudes.

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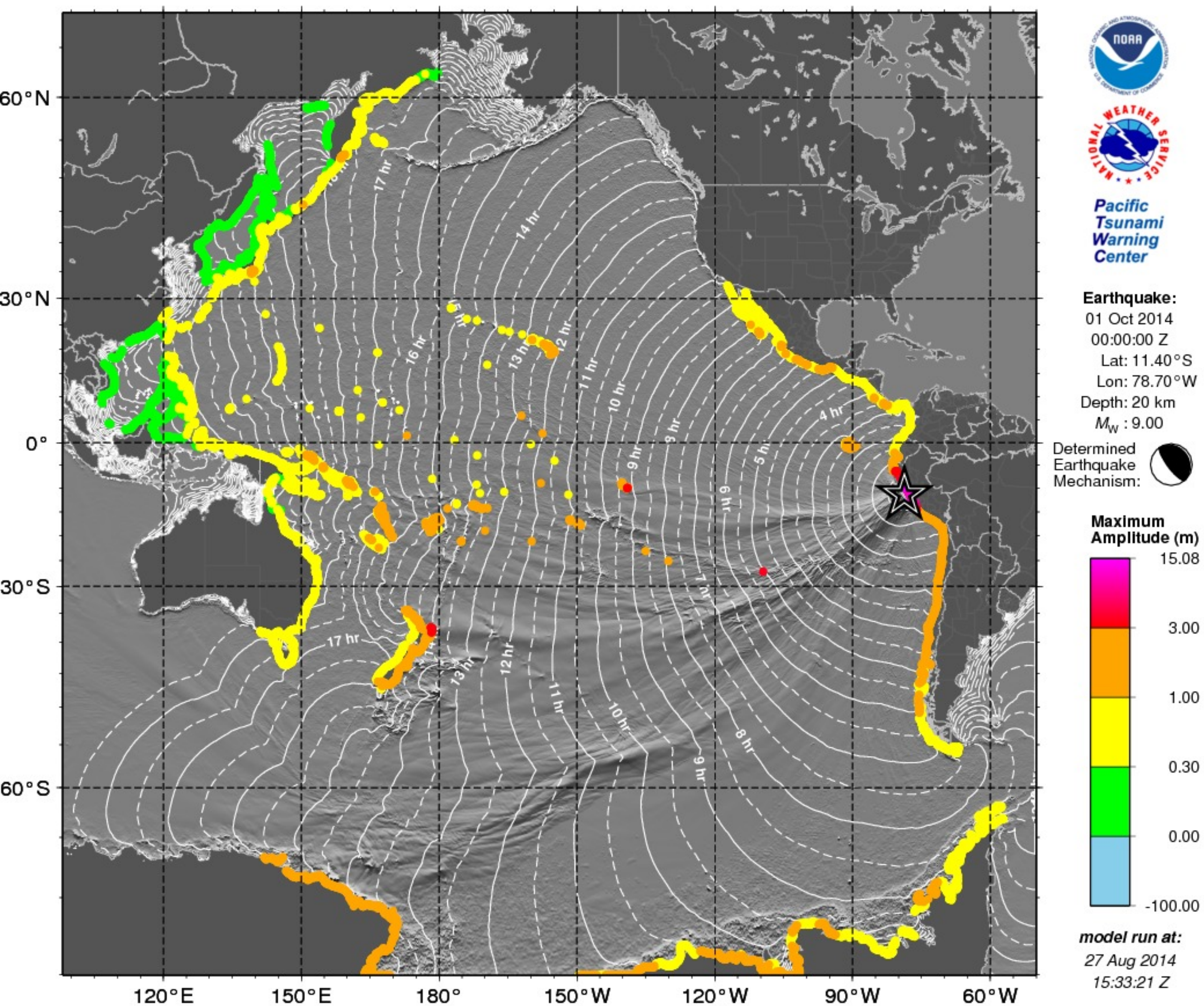




# PTWC Coastal Tsunami Amplitude Forecast

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 will likely be much smaller than the forecast indicates.

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ZCZC  
WEPA40 PHEB 010040  
TSUPAC

TSUNAMI MESSAGE NUMBER 2  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
0040 UCT WED OCT 1 2014

...TSUNAMI THREAT MESSAGE...

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ALERT FOR EACH COUNTRY AND MAY ISSUE ADDITIONAL OR MORE REFINED  
INFORMATION.

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#### PRELIMINARY EARTHQUAKE PARAMETERS

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* MAGNITUDE	9.0
* ORIGIN TIME	0000 UTC OCT 1 2014
* COORDINATES	11.4 SOUTH 78.7 WEST
* DEPTH	20 KM / 12 MILES
* LOCATION	OFF THE COAST OF CENTRAL PERU

#### EVALUATION

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- \* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 9.0 OCCURRED  
OFF THE COAST OF CENTRAL PERU AT 0000 UTC ON WEDNESDAY OCTOBER  
1 2014.
- \* BASED ON THE PRELIMINARY EARTHQUAKE PARAMETERS... 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

PERU... CHILE... NEW ZEALAND... AND FRENCH POLYNESIA.

- \* TSUNAMI WAVES REACHING 1 TO 3 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE ALONG SOME COASTS OF

MEXICO... COSTA RICA... PANAMA... ECUADOR... ANTARCTICA...  
JAPAN... NEW CALEDONIA... FIJI... SAMOA... AMERICAN SAMOA...  
COOK ISLANDS... VANUATU... KIRIBATI... PALMYRA ISLAND...  
TONGA... WALLIS AND FUTUNA... PITCAIRN ISLANDS... NIUE...  
SOLOMON ISLANDS... PAPUA NEW GUINEA... RUSSIA... AND HAWAII.

- \* TSUNAMI WAVES REACHING 0.3 TO 1 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE FOR SOME COASTS OF

EL SALVADOR... GUATEMALA... HONDURAS... NICARAGUA...  
COLOMBIA... AUSTRALIA... PHILIPPINES... TAIWAN... CHINA...  
NORTHERN MARIANAS... GUAM... PALAU... YAP... POHNPEI... CHUUK...  
KOSRAE... MARSHALL ISLANDS... TOKELAU... NAURU... WAKE ISLAND...  
MIDWAY ISLAND... JOHNSTON ATOLL... JARVIS ISLAND... HOWLAND AND  
BAKER... TUVALU... INDONESIA... AND NORTHWESTERN HAWAIIAN  
ISLANDS.

- \* TSUNAMI WAVES LESS THAN 0.3 METERS ABOVE THE TIDE LEVEL ARE POSSIBLE FOR SOME COASTS OF

REPUBLIC OF KOREA... DPR OF KOREA... VIETNAM... MALAYSIA...  
AND BRUNEI.

- \* 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 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 AS 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 POINTS 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)
LA PUNTA	PERU	12.1S	77.2W	0034 10/01
SAN JUAN	PERU	15.3S	75.2W	0051 10/01
TALARA	PERU	4.6S	81.5W	0104 10/01
CHIMBOTE	PERU	9.0S	78.8W	0110 10/01
MOLLENDO	PERU	17.1S	72.0W	0124 10/01
LA LIBERTAD	ECUADOR	2.2S	81.2W	0125 10/01
PIMENTAL	PERU	6.9S	80.0W	0136 10/01
ARICA	CHILE	18.5S	70.3W	0142 10/01
IQUIQUE	CHILE	20.2S	70.1W	0147 10/01
ANTOFAGASTA	CHILE	23.3S	70.4W	0156 10/01
ESMERELDAS	ECUADOR	1.2N	79.8W	0212 10/01
CALDERA	CHILE	27.1S	70.8W	0226 10/01
TUMACO	COLOMBIA	1.8N	78.9W	0232 10/01
COQUIMBO	CHILE	29.9S	71.4W	0251 10/01
BAHIA SOLANO	COLOMBIA	6.3N	77.4W	0303 10/01
PUERTO PINA	PANAMA	7.4N	78.0W	0313 10/01
VALPARAISO	CHILE	33.0S	71.6W	0315 10/01
PUNTA MALA	PANAMA	7.5N	80.0W	0315 10/01
BALTRA ISLAND	ECUADOR	0.5S	90.3W	0315 10/01
BUENAVENTURA	COLOMBIA	3.8N	77.2W	0319 10/01
CABO MATAPALO	COSTA RICA	8.4N	83.3W	0327 10/01
PUNTA BURICA	PANAMA	8.0N	82.9W	0327 10/01
TALCAHUANO	CHILE	36.7S	73.1W	0359 10/01
PUERTO QUEPOS	COSTA RICA	9.4N	84.2W	0400 10/01
CABO SAN ELENA	COSTA RICA	10.9N	86.0W	0417 10/01
CORRAL	CHILE	39.8S	73.5W	0431 10/01
SAN JUAN DL SUR	NICARAGUA	11.2N	85.9W	0443 10/01
PUERTO SANDINO	NICARAGUA	12.2N	86.8W	0455 10/01
CORINTO	NICARAGUA	12.5N	87.2W	0455 10/01
EASTER ISLAND	CHILE	27.1S	109.4W	0503 10/01
ACAJUTLA	EL SALVADOR	13.6N	89.8W	0514 10/01
SIPICATE	GUATEMALA	13.9N	91.2W	0528 10/01



BALBOA HEIGHTS	PANAMA	9.0N	79.6W	0531	10/01
PUERTO MADERO	MEXICO	14.8N	92.5W	0535	10/01
AMAPALA	HONDURAS	13.2N	87.6W	0541	10/01
GOLFO DE PENAS	CHILE	47.1S	74.9W	0543	10/01
ACAPULCO	MEXICO	16.9N	99.9W	0557	10/01
SALINA CRUZ	MEXICO	16.5N	95.2W	0559	10/01
LAZARO CARDENAS	MEXICO	17.9N	102.2W	0623	10/01
MANZANILLO	MEXICO	19.1N	104.3W	0645	10/01
PUERTO VALLARTA	MEXICO	20.6N	105.3W	0708	10/01
PUERTO MONTT	CHILE	41.5S	73.0W	0726	10/01
CABO SAN LUCAS	MEXICO	22.8N	110.0W	0738	10/01
MAZATLAN	MEXICO	23.2N	106.4W	0739	10/01
SAN BLAS	MEXICO	21.5N	105.3W	0742	10/01
PITCAIRN ISLAND	PITCAIRN	25.1S	130.1W	0755	10/01
RIKITEA	FRENCH POLYNESIA	23.1S	135.0W	0837	10/01
GUAYMAS	MEXICO	27.9N	110.9W	0840	10/01
PUNTA ABREOJOS	MEXICO	26.7N	113.6W	0852	10/01
HIVA OA	FRENCH POLYNESIA	10.0S	139.0W	0913	10/01
THURSTON ISLAND	ANTARCTICA	72.0S	100.0W	0939	10/01
ENSENADA	MEXICO	31.8N	116.8W	0943	10/01
PAPEETE	FRENCH POLYNESIA	17.5S	149.6W	1045	10/01
FLINT ISLAND	KIRIBATI	11.4S	151.8W	1102	10/01
SAN FELIPE	MEXICO	31.0N	114.8W	1112	10/01
MALDEN ISLAND	KIRIBATI	3.9S	154.9W	1127	10/01
PENRYN ISLAND	COOK ISLANDS	8.9S	157.8W	1148	10/01
RAROTONGA	COOK ISLANDS	21.2S	159.8W	1158	10/01
CHRISTMAS ISLAND	KIRIBATI	2.0N	157.5W	1204	10/01
JARVIS ISLAND	JARVIS ISLAND	0.4S	160.1W	1216	10/01
PALMYRA ISLAND	PALMYRA ISLAND	5.9N	162.1W	1252	10/01
PUKAPUKA ISLAND	COOK ISLANDS	10.8S	165.9W	1303	10/01
CAPE ADARE	ANTARCTICA	71.0S	170.0E	1314	10/01
NIUE ISLAND	NIUE	19.0S	170.0W	1321	10/01
PAGO PAGO	AMERICAN SAMOA	14.3S	170.7W	1336	10/01
KANTON ISLAND	KIRIBATI	2.8S	171.7W	1345	10/01
APIA	SAMOA	13.8S	171.8W	1347	10/01
JOHNSTON ISLAND	JOHNSTON ISLAND	16.7N	169.5W	1348	10/01
NUKUNONU ISLAND	TOKELAU	9.2S	171.8W	1351	10/01
NUKUALOFA	TONGA	21.0S	175.2W	1400	10/01
WALLIS ISLAND	WALLIS AND FUTUN	13.3S	176.3W	1419	10/01
HOWLAND ISLAND	HOWLAND AND BAKE	0.6N	176.6W	1426	10/01
GISBORNE	NEW ZEALAND	38.7S	178.0E	1428	10/01
EAST CAPE	NEW ZEALAND	37.7S	178.5E	1433	10/01
WELLINGTON	NEW ZEALAND	41.3S	174.8E	1438	10/01
FUTUNA ISLAND	WALLIS AND FUTUN	14.3S	178.2W	1441	10/01
NORTH CAPE	NEW ZEALAND	34.4S	173.3E	1456	10/01
DUNEDIN	NEW ZEALAND	45.9S	170.5E	1458	10/01
FUNAFUTI ISLAND	TUVALU	7.9S	178.5E	1502	10/01
NAPIER	NEW ZEALAND	39.5S	176.9E	1510	10/01
MIDWAY ISLAND	MIDWAY ISLAND	28.2N	177.4W	1512	10/01
SUVA	FIJI	18.1S	178.4E	1525	10/01



AUCKLAND EAST	NEW ZEALAND	36.7S	175.0E	1549	10/01
ANATOM ISLAND	VANUATU	20.2S	169.9E	1609	10/01
TARAWA ISLAND	KIRIBATI	1.5N	173.0E	1617	10/01
MAJURO	MARSHALL ISLANDS	7.1N	171.4E	1625	10/01
AUCKLAND WEST	NEW ZEALAND	37.1S	174.2E	1627	10/01
MILFORD SOUND	NEW ZEALAND	44.6S	167.9E	1638	10/01
NAURU	NAURU	0.5S	166.9E	1647	10/01
LYTTELTON	NEW ZEALAND	43.6S	172.7E	1648	10/01
KWAJALEIN	MARSHALL ISLANDS	8.7N	167.7E	1651	10/01
NOUMEA	NEW CALEDONIA	22.3S	166.5E	1655	10/01
WAKE ISLAND	WAKE ISLAND	19.3N	166.6E	1702	10/01
BLUFF	NEW ZEALAND	46.6S	168.3E	1703	10/01
SANTA CRUZ ISLA	SOLOMON ISLANDS	10.9S	165.9E	1706	10/01
ESPERITU SANTO	VANUATU	15.1S	167.3E	1709	10/01
NEW PLYMOUTH	NEW ZEALAND	39.1S	174.1E	1714	10/01
HOBART	AUSTRALIA	43.3S	147.6E	1718	10/01
KOSRAE ISLAND	KOSRAE	5.5N	163.0E	1723	10/01
KIRAKIRA	SOLOMON ISLANDS	10.4S	161.9E	1728	10/01
MEDNNY ISLAND	RUSSIA	54.7N	167.4E	1731	10/01
UST KAMCHATSK	RUSSIA	56.1N	162.6E	1736	10/01
ENIWETOK	MARSHALL ISLANDS	11.4N	162.3E	1743	10/01
AUKI	SOLOMON ISLANDS	8.8S	160.6E	1756	10/01
WESTPORT	NEW ZEALAND	41.8S	171.6E	1756	10/01
OSTROV KARAGINS	RUSSIA	58.8N	164.5E	1759	10/01
GHATERE	SOLOMON ISLANDS	7.8S	159.2E	1801	10/01
NELSON	NEW ZEALAND	41.3S	173.3E	1802	10/01
PETROPAVLOVSK	RUSSIA	53.2N	159.6E	1808	10/01
SYDNEY	AUSTRALIA	33.9S	151.4E	1811	10/01
POHNPEI ISLAND	POHNPEI	7.0N	158.2E	1817	10/01
HONIARA	SOLOMON ISLANDS	9.3S	160.0E	1818	10/01
PANGGOE	SOLOMON ISLANDS	6.9S	157.2E	1819	10/01
MINAMITORISHIMA	MINAMITORISHIMA	24.3N	154.0E	1824	10/01
MUNDA	SOLOMON ISLANDS	8.4S	157.2E	1830	10/01
KIETA	PAPUA NEW GUINEA	6.1S	155.6E	1838	10/01
FALAMAE	SOLOMON ISLANDS	7.4S	155.6E	1849	10/01
BRISBANE	AUSTRALIA	27.2S	153.3E	1900	10/01
WOODLARK ISLAND	PAPUA NEW GUINEA	9.0S	152.9E	1902	10/01
AMUN	PAPUA NEW GUINEA	6.0S	154.7E	1903	10/01
SEVERO KURILSK	RUSSIA	50.8N	156.1E	1903	10/01
KUSHIRO	JAPAN	42.9N	144.3E	1918	10/01
RABAU	PAPUA NEW GUINEA	4.2S	152.3E	1927	10/01
SAIPAN	NORTHERN MARIANA	15.3N	145.8E	1936	10/01
CHUUK ISLAND	CHUUK	7.4N	151.8E	1947	10/01
KAVIENG	PAPUA NEW GUINEA	2.5S	150.7E	1948	10/01
GUAM	GUAM	13.4N	144.7E	1948	10/01
CHICHI JIMA	JAPAN	27.0N	142.3E	1950	10/01
KATSUURA	JAPAN	35.1N	140.3E	1954	10/01
HACHINOHE	JAPAN	40.5N	141.5E	1958	10/01
LAE	PAPUA NEW GUINEA	6.8S	147.0E	1958	10/01
ULAMONA	PAPUA NEW GUINEA	5.0S	151.3E	2000	10/01

HACHIJO JIMA	JAPAN	33.1N	139.8E	2003	10/01
PORT MORESBY	PAPUA NEW GUINEA	9.3S	146.9E	2004	10/01
MANUS ISLAND	PAPUA NEW GUINEA	2.0S	147.5E	2018	10/01
MADANG	PAPUA NEW GUINEA	5.2S	145.8E	2024	10/01
YAP ISLAND	YAP	9.5N	138.1E	2032	10/01
GLADSTONE	AUSTRALIA	23.8S	151.4E	2040	10/01
CAIRNS	AUSTRALIA	16.7S	145.8E	2050	10/01
VANIMO	PAPUA NEW GUINEA	2.6S	141.3E	2102	10/01
WEWAK	PAPUA NEW GUINEA	3.5S	143.6E	2106	10/01
JAYAPURA	INDONESIA	2.4S	140.8E	2106	10/01
SHIMIZU	JAPAN	32.8N	133.0E	2115	10/01
MALAKAL	PALAU	7.3N	134.5E	2118	10/01
NOBEOKA	JAPAN	32.5N	131.8E	2122	10/01
SAPPORO	JAPAN	43.5N	141.0E	2126	10/01
NIIGATA	JAPAN	38.0N	139.0E	2145	10/01
WARSA	INDONESIA	0.6S	135.8E	2145	10/01
MANOKWARI	INDONESIA	0.8S	134.2E	2203	10/01
OKINAWA	JAPAN	26.2N	127.8E	2210	10/01
BEREBERE	INDONESIA	2.5N	128.7E	2211	10/01
GEME	INDONESIA	4.6N	126.8E	2218	10/01
SORONG	INDONESIA	0.8S	131.1E	2222	10/01
DAVAO	PHILIPPINES	6.8N	125.7E	2227	10/01
HUALIEN	TAIWAN	24.0N	121.7E	2230	10/01
PATANI	INDONESIA	0.4N	128.8E	2232	10/01
TAITUNG	TAIWAN	22.7N	121.2E	2234	10/01
PALANAN	PHILIPPINES	17.1N	122.6E	2235	10/01
LEGASPI	PHILIPPINES	13.2N	123.8E	2237	10/01
SHIMANE	JAPAN	35.8N	133.0E	2244	10/01
TABUKAN TENGAH	INDONESIA	3.6N	125.6E	2246	10/01
MACKAY	AUSTRALIA	21.1S	149.3E	2251	10/01
NAGASAKI	JAPAN	32.7N	129.7E	2257	10/01
CHILUNG	TAIWAN	25.2N	121.8E	2302	10/01
WENZHOU	CHINA	27.8N	121.2E	0144	10/02

## 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 SWEEPED OUT TO SEA.

NEXT UPDATE AND ADDITIONAL INFORMATION

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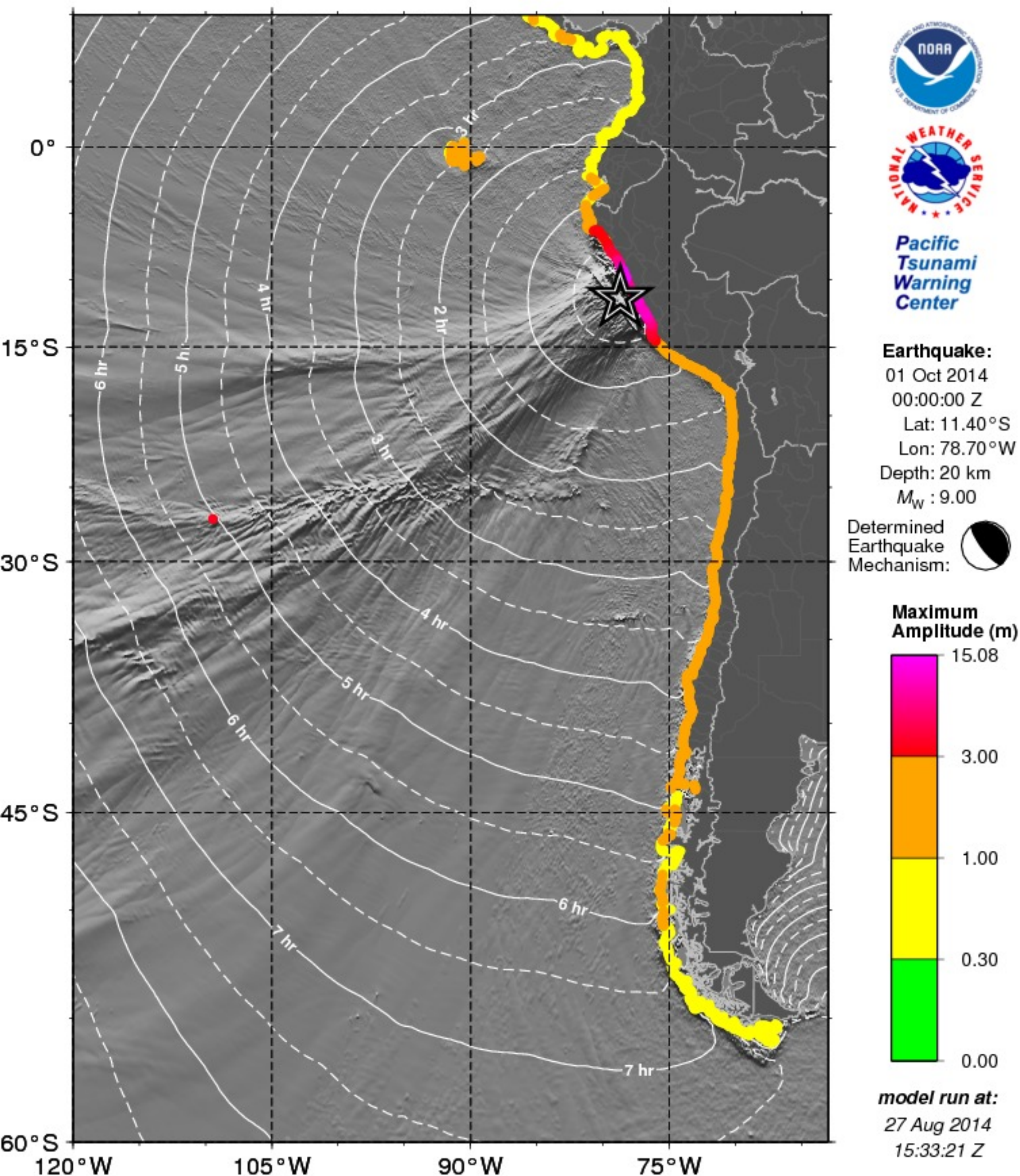
- \* THE NEXT MESSAGE WILL BE ISSUED IN ONE HOUR... OR SOONER IF THE SITUATION WARRANTS.
- \* AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE FROM THE U.S. GEOLOGICAL SURVEY CAN BE FOUND ON THE INTERNET AT [EARTHQUAKE.USGS.GOV/EARTHQUAKES](http://EARTHQUAKE.USGS.GOV/EARTHQUAKES) -ALL IN SMALL LETTERS-.
- \* FURTHER INFORMATION ABOUT THIS EVENT MAY BE FOUND AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV) AND AT [WWW.TSUNAMI.GOV](http://WWW.TSUNAMI.GOV).
- \* COASTAL REGIONS OF HAWAII... AMERICAN SAMOA... GUAM... AND CNMI SHOULD REFER TO PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR THOSE PLACES THAT CAN BE FOUND AT [PTWC.WEATHER.GOV](http://PTWC.WEATHER.GOV).
- \* COASTAL REGIONS OF CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND AT [NTWC.ARH.NOAA.GOV](http://NTWC.ARH.NOAA.GOV).

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# PTWC Coastal Tsunami Amplitude Forecast

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 will likely be much smaller than the forecast indicates.

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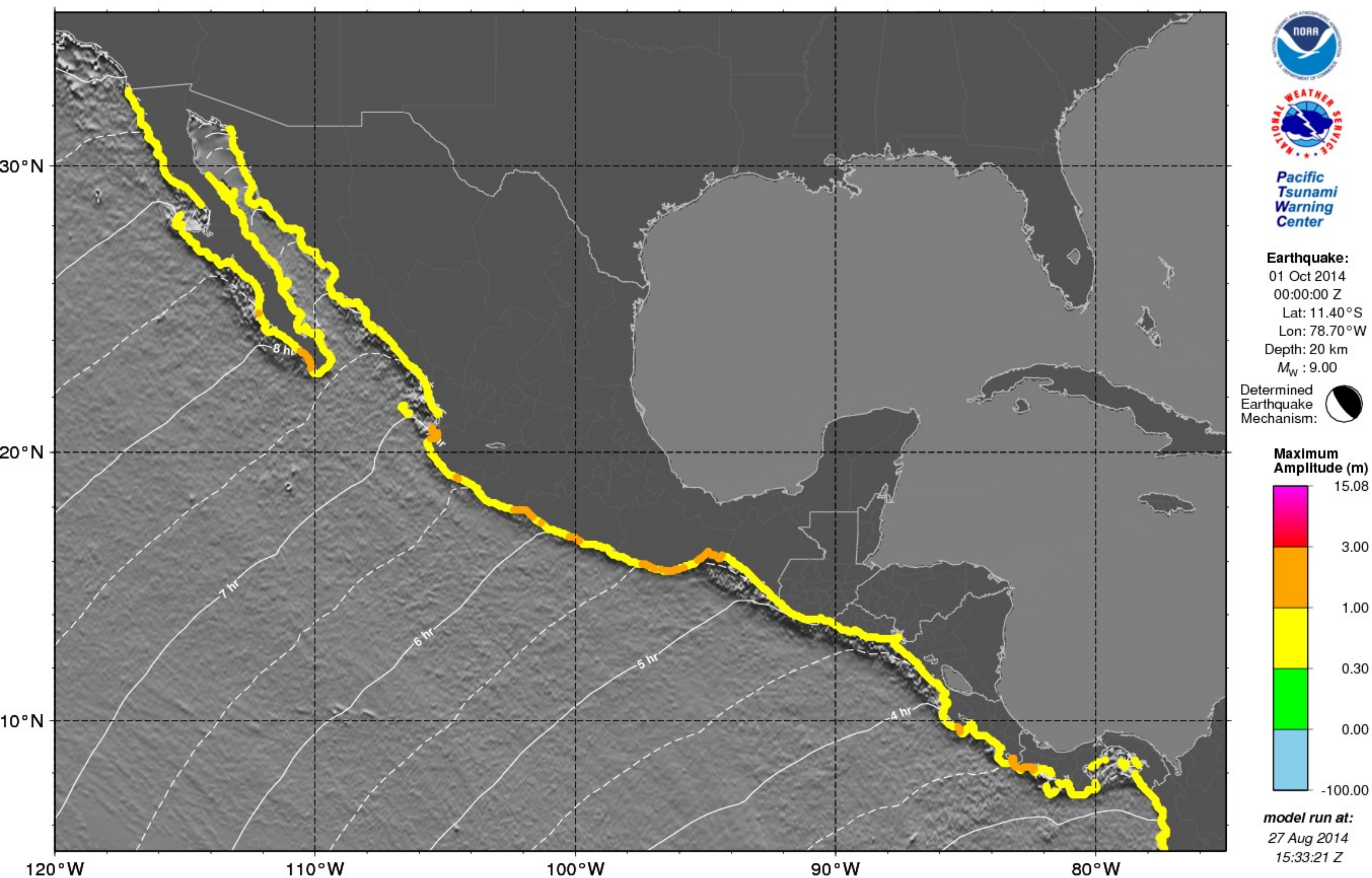




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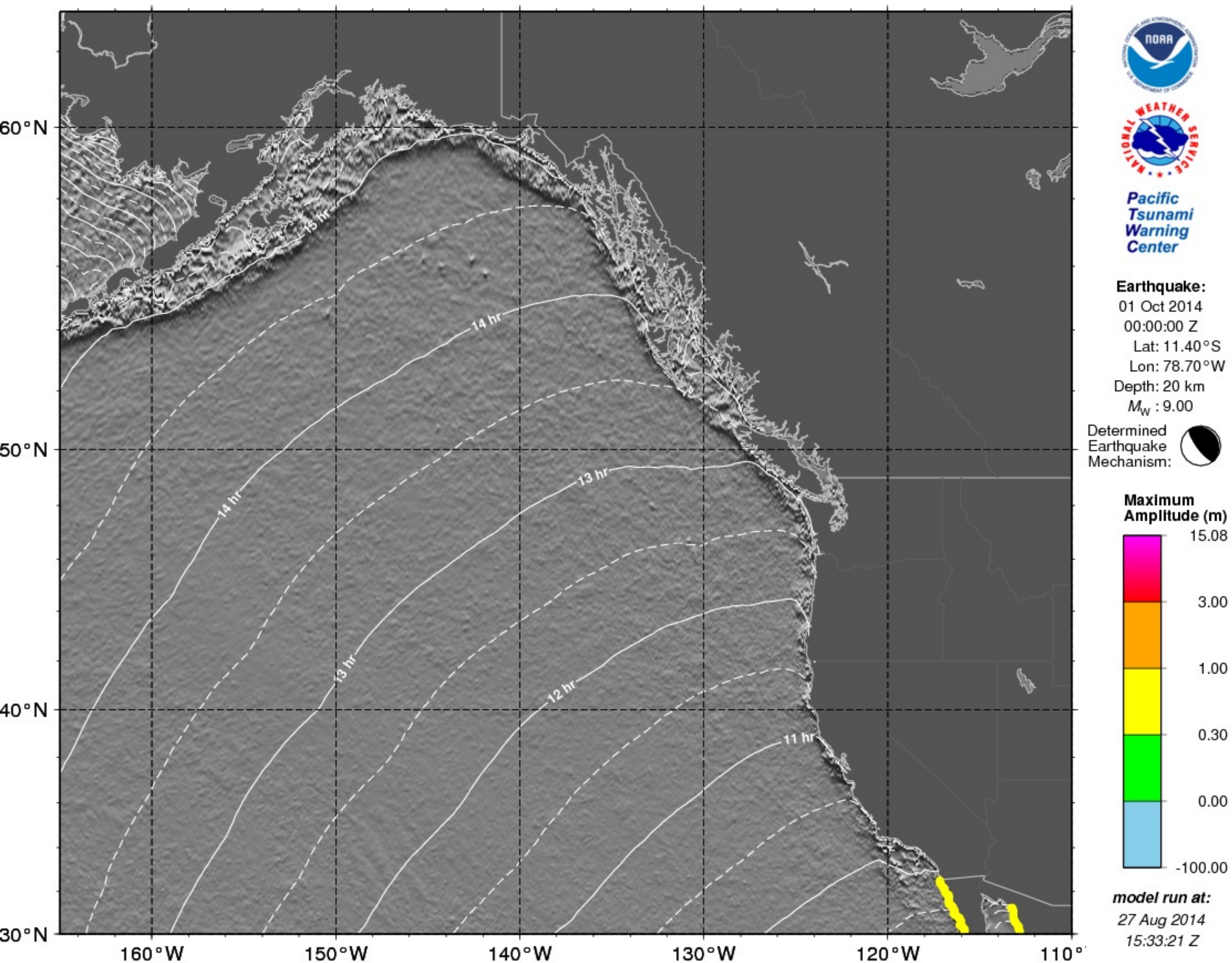




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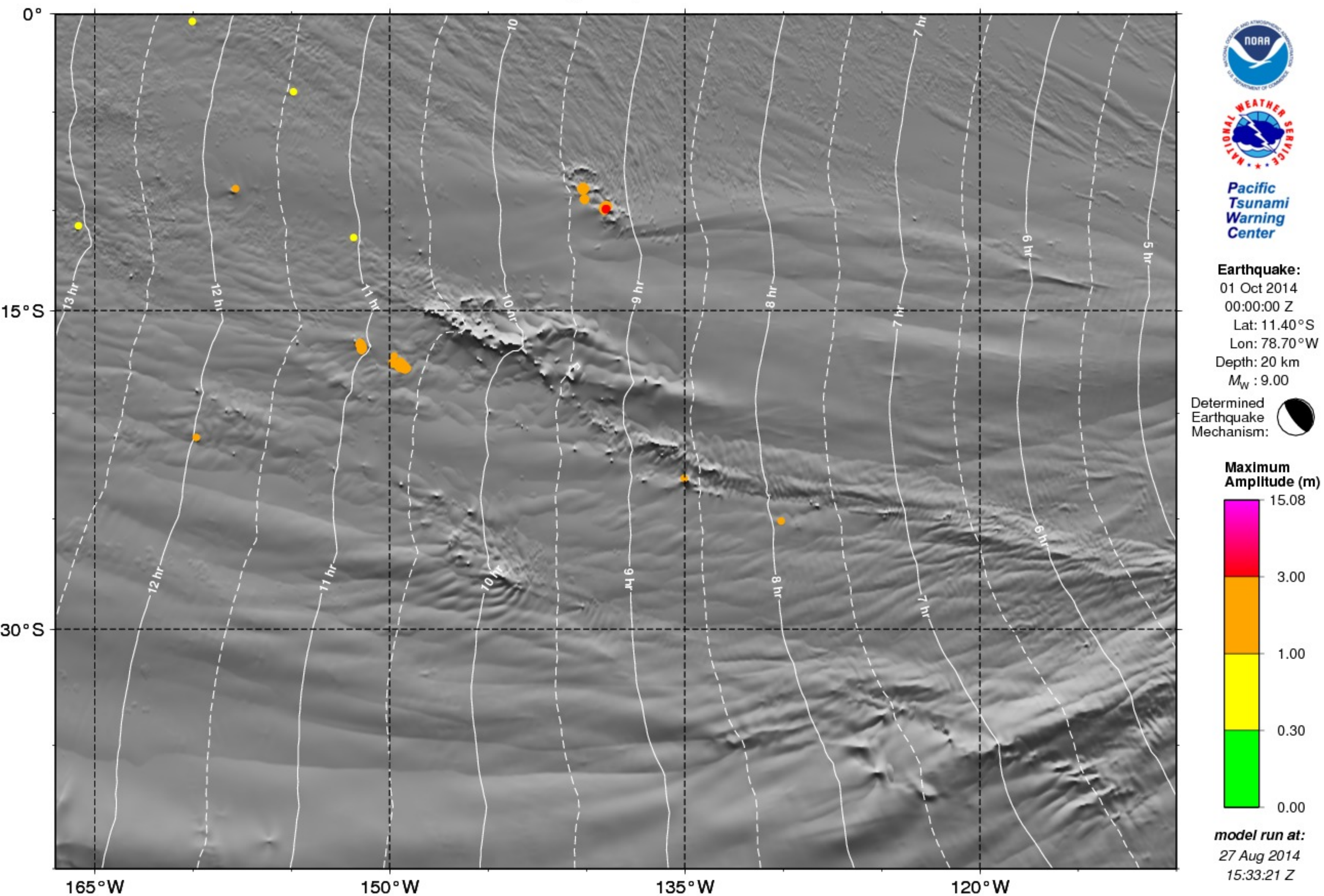




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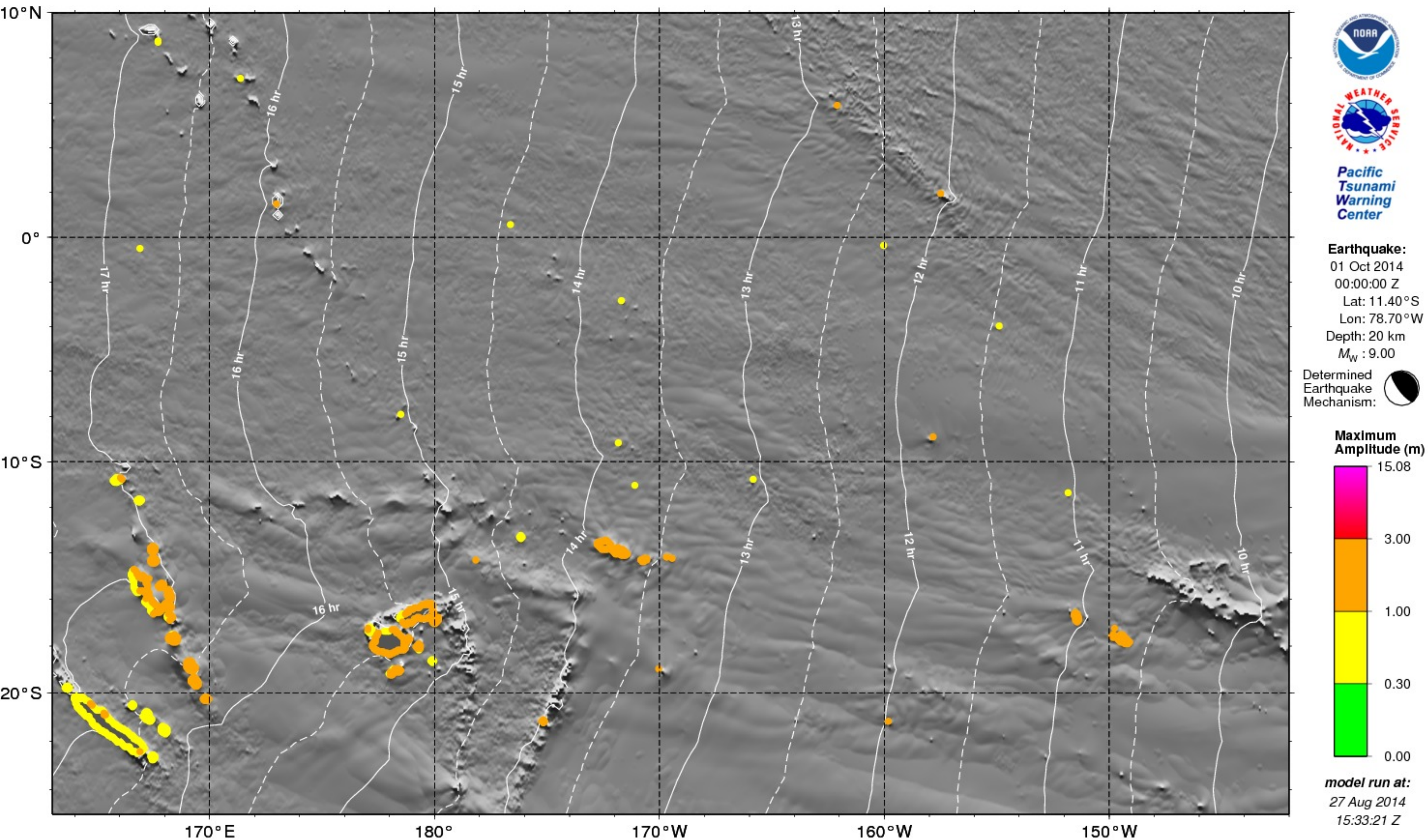




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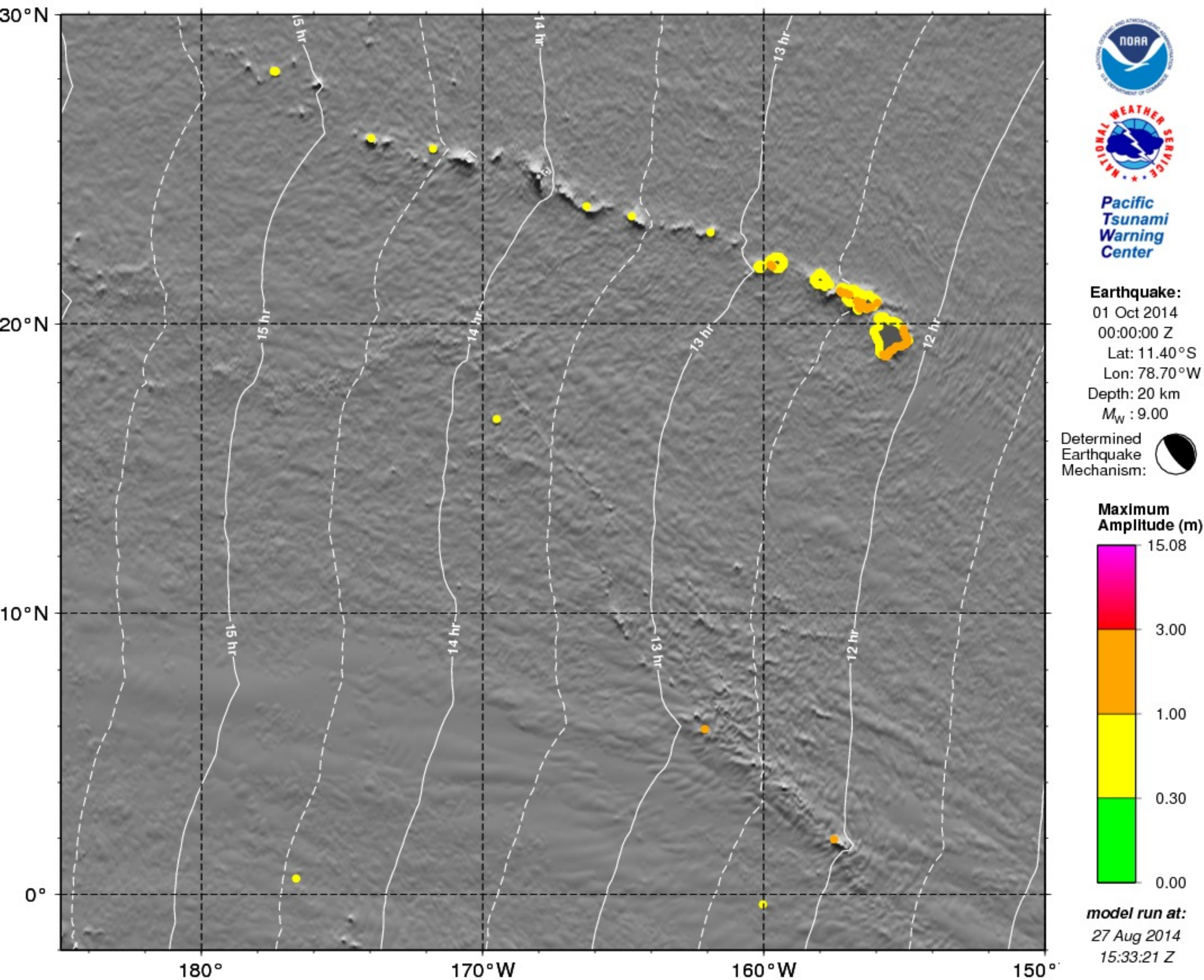




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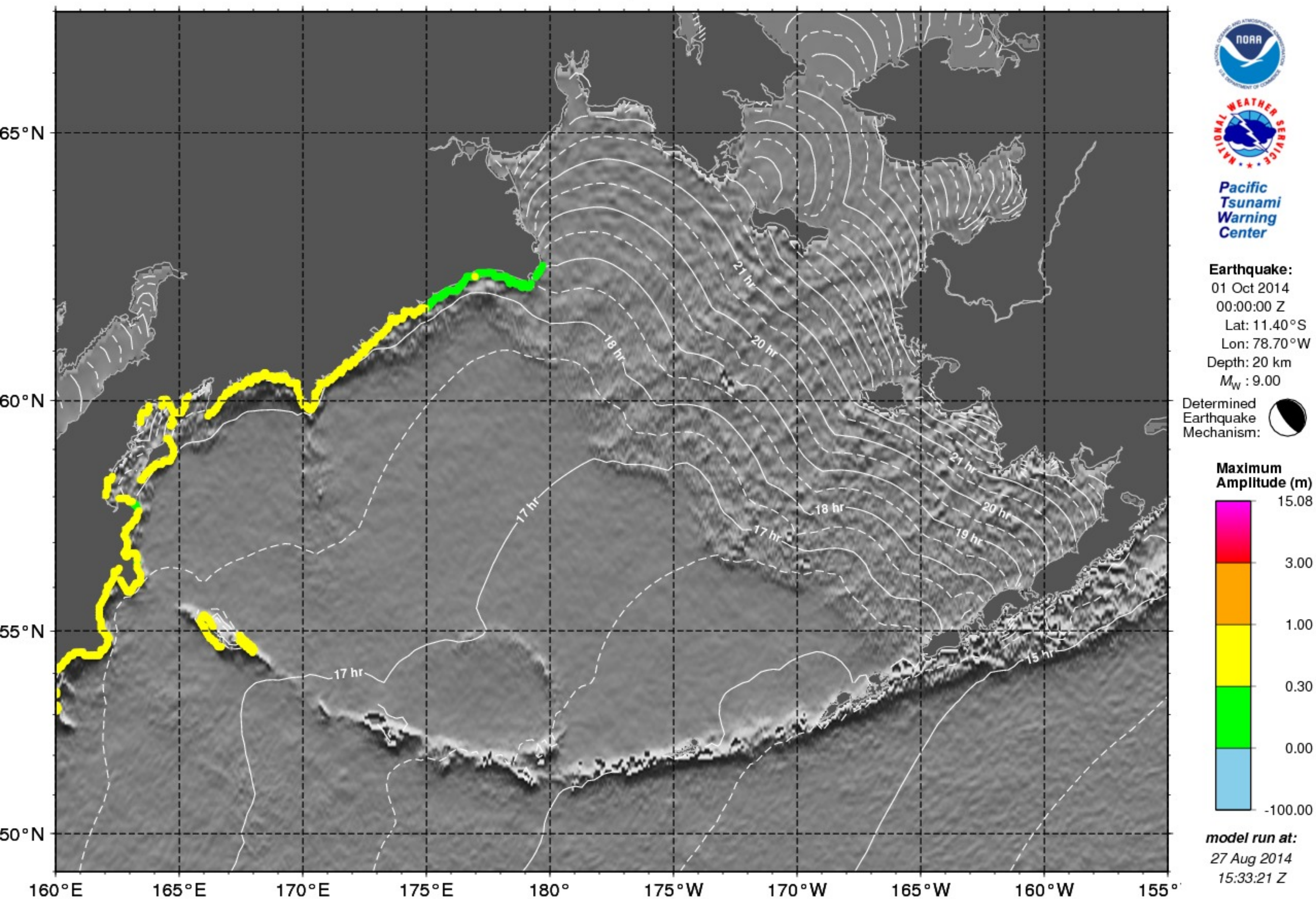




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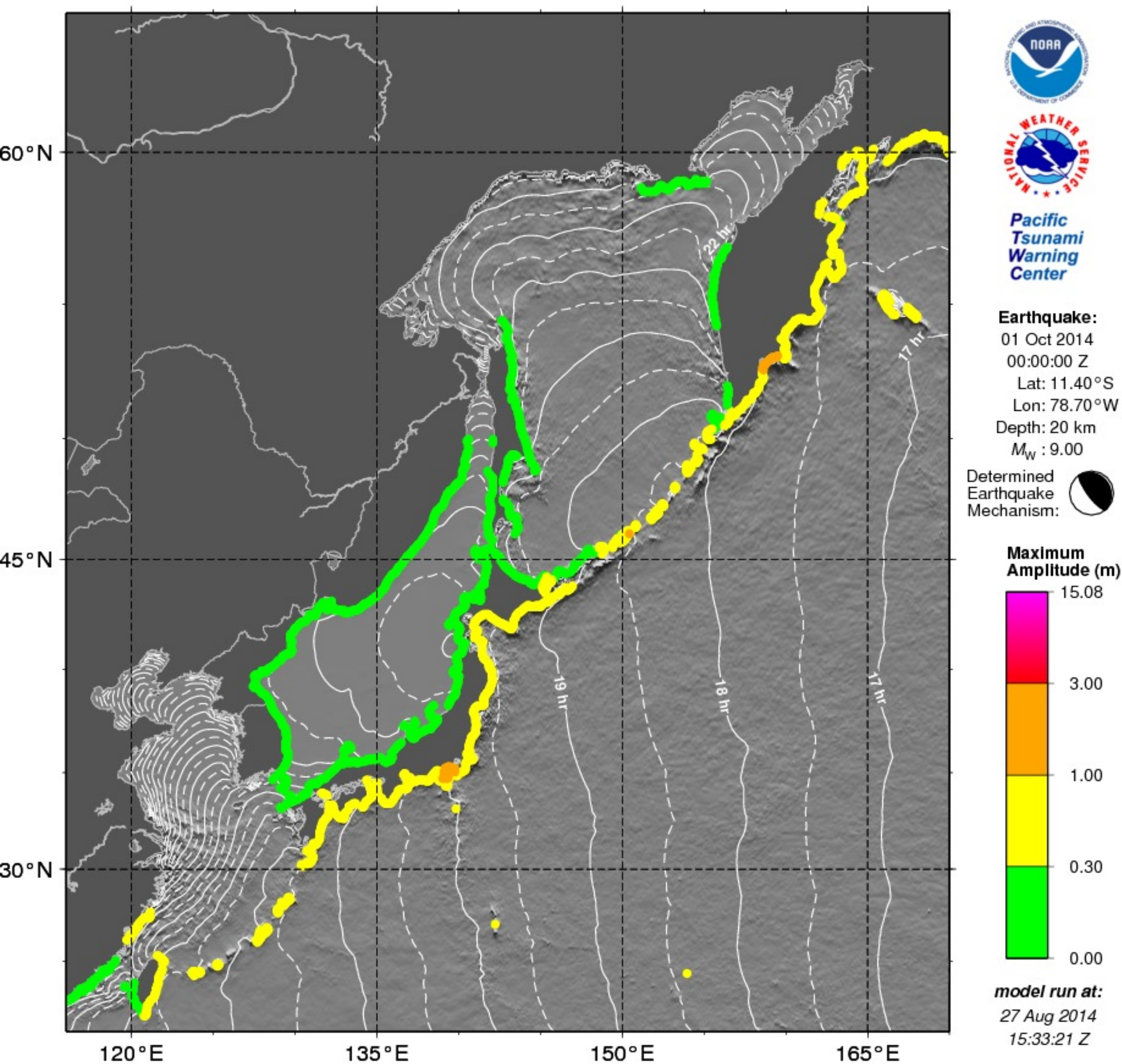




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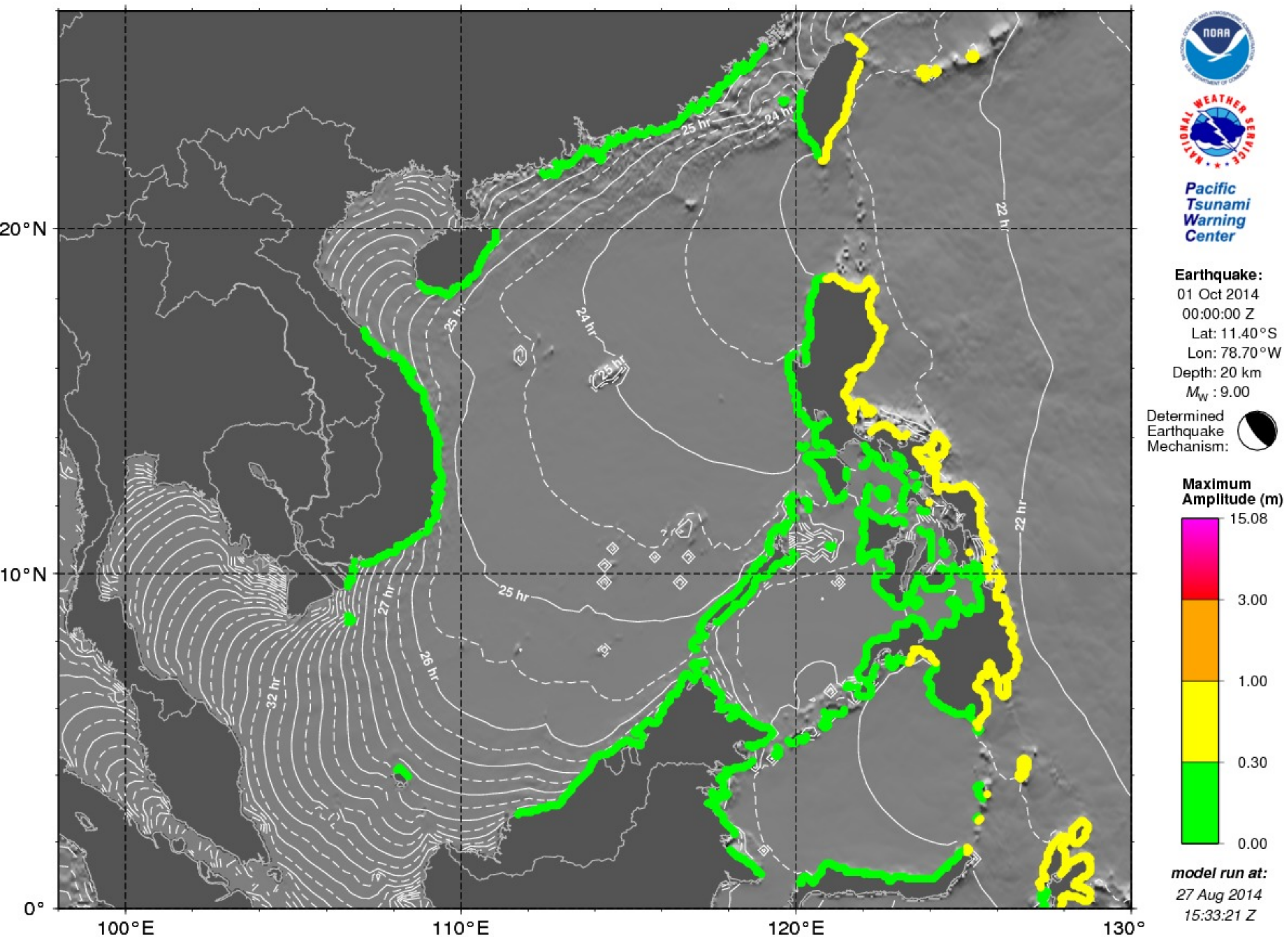




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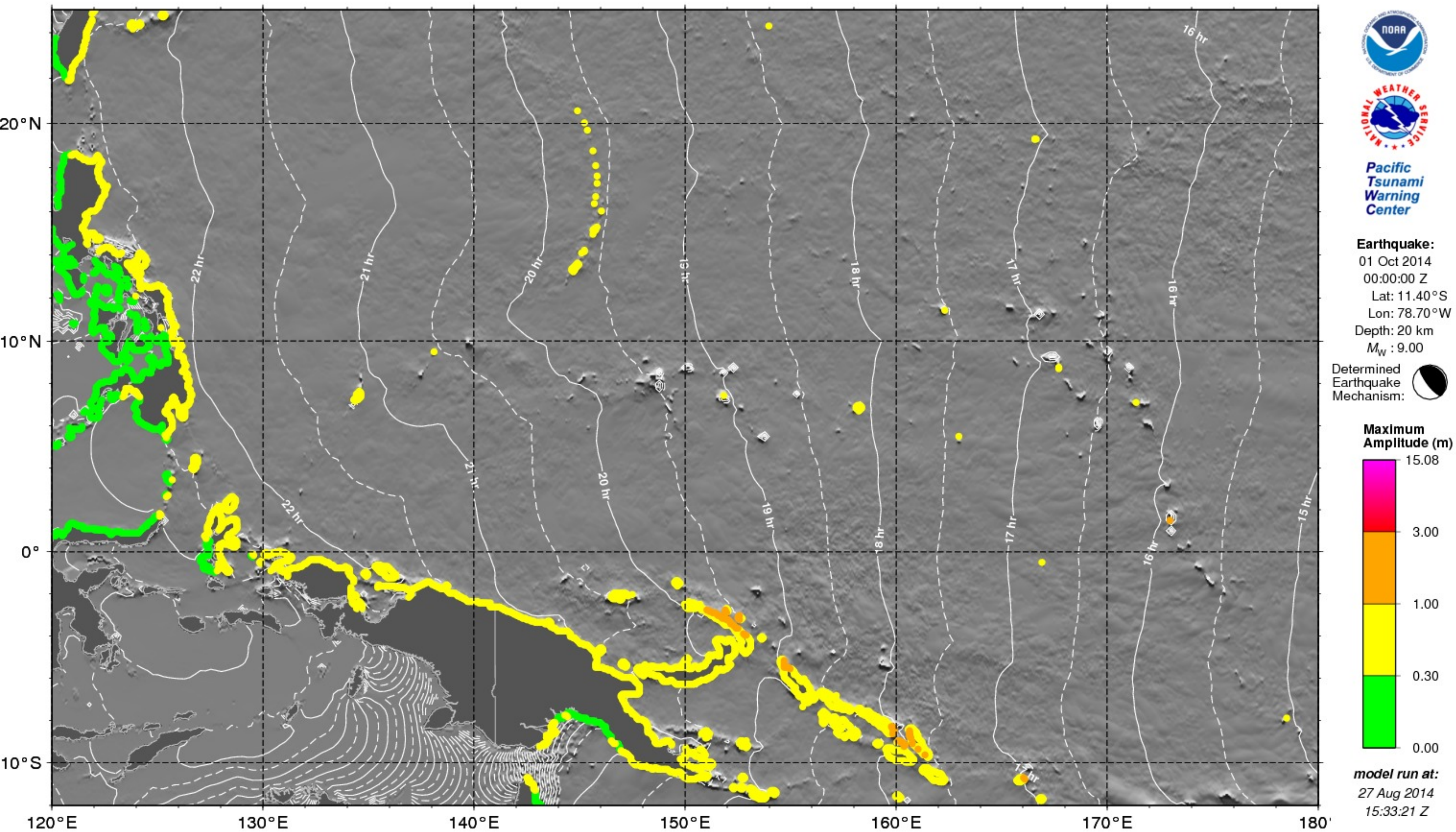




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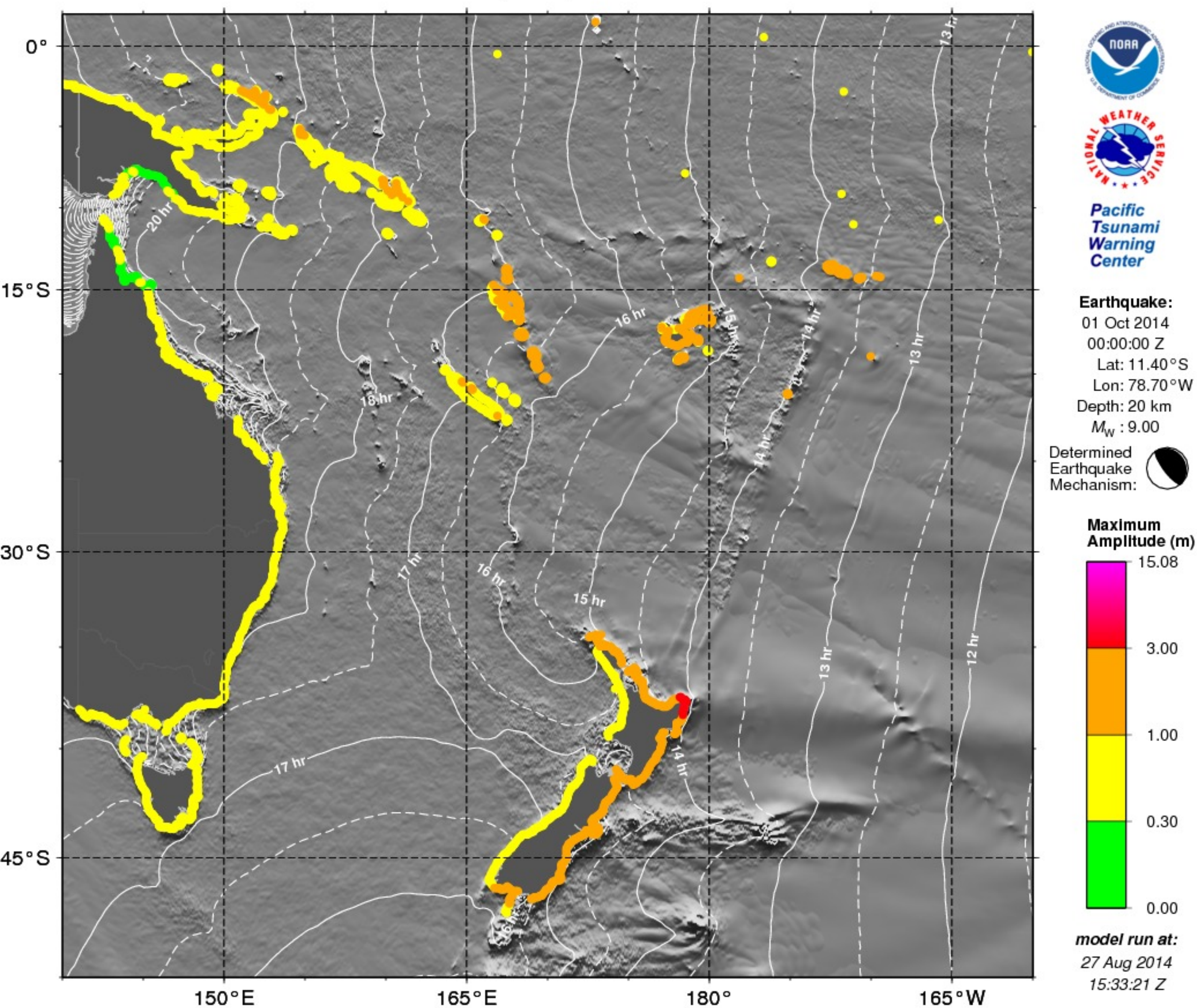




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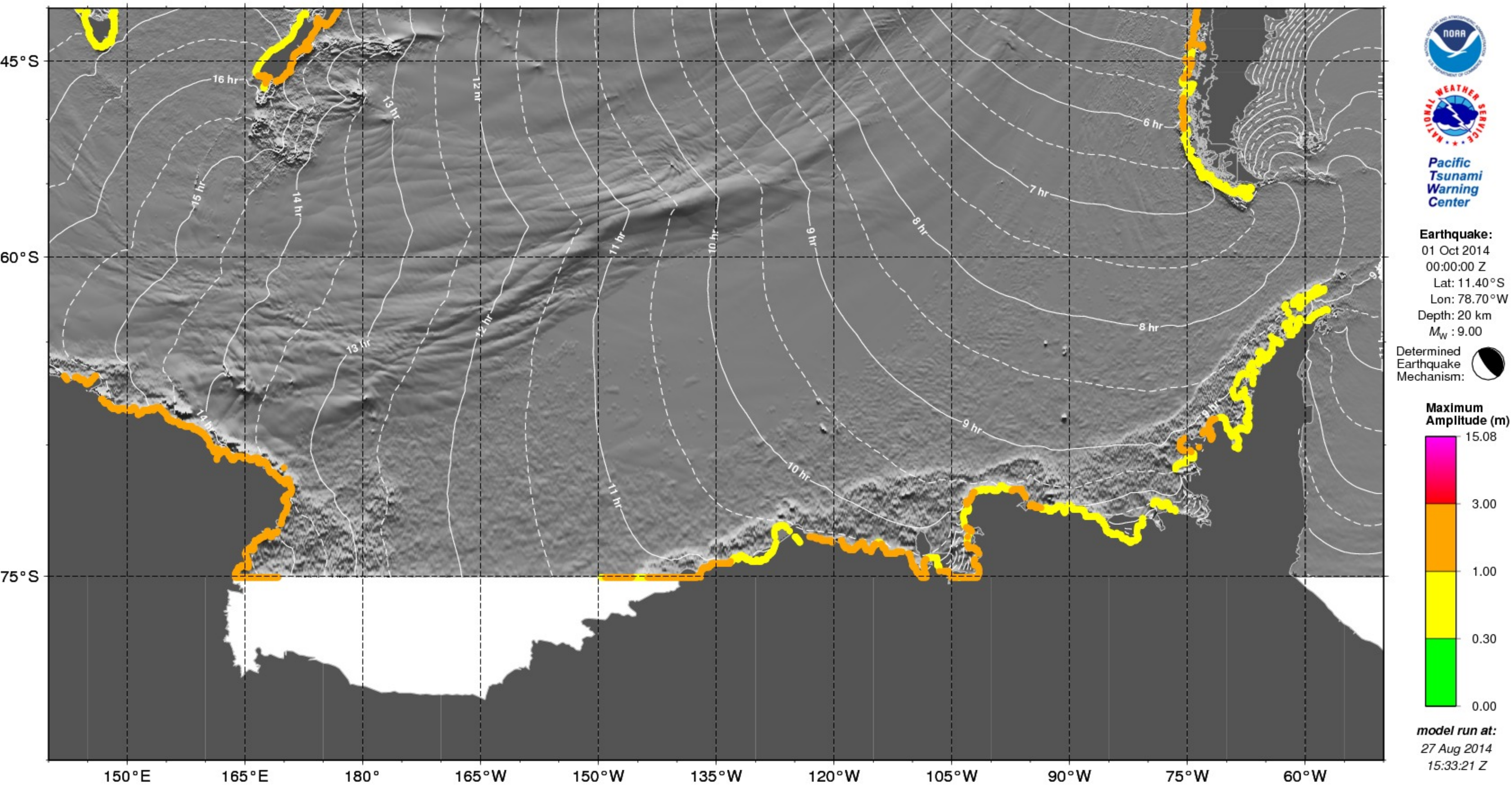




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PTWC TABLE OF FORECAST STATISTICS FOR REGIONAL POLYGONS – RUN ID 0  
(for internal use only – not for distribution)

Earthquake – Origin: 10/01/2014 00:00:00 UTC Coordinates: 11.4S 78.7W Depth: 020km Magnitude: 9.0

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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 will likely be much smaller than the forecast indicates.

Coastal Forecast (meters)				Offshore Forecast (meters)				Total	Region Name
Maximum	Mean	Median	STD	Maximum	Mean	Median	STD	Points	
15.08	8.70	10.14	4.12	10.33	4.01	4.19	2.06	104	Central_Peru
9.49	3.02	1.91	2.40	7.63	2.76	2.98	1.90	100	Northern_Peru
4.35	4.35	4.35	0.00	0.88	0.88	0.88	0.00	1	Easter_Island
3.61	2.06	1.74	0.66	4.66	1.29	1.17	0.65	88	East_Side_of_North_Island_New_Zealand
3.51	1.71	1.64	0.37	2.52	1.11	1.09	0.33	114	North_Side_of_North_Island_New_Zealand
3.09	1.87	1.67	0.54	1.11	0.47	0.38	0.22	24	Marquesas_Islands
2.52	1.92	1.92	0.35	1.51	0.51	0.39	0.31	40	Samoa
2.26	1.44	1.35	0.31	2.20	0.66	0.62	0.28	630	
Victoria_Oates_and_George_V_Coast_of_Antarctica									
2.24	1.41	1.39	0.41	1.15	0.35	0.34	0.14	189	Vanuatu
2.09	1.36	1.26	0.29	1.63	0.72	0.69	0.26	167	South_Central_Chile
2.04	2.04	2.04	0.00	0.26	0.26	0.26	0.00	1	Niue
1.98	1.19	1.21	0.19	1.62	0.58	0.55	0.27	151	Fiji
1.95	1.51	1.50	0.16	1.20	0.59	0.55	0.19	120	North_Central_Chile
1.94	1.51	1.47	0.22	1.26	0.65	0.61	0.19	76	Southern_Peru
1.90	1.30	1.33	0.27	1.31	0.40	0.37	0.19	94	Galapagos_Islands
1.84	1.36	1.34	0.16	1.16	0.33	0.28	0.17	35	Society_Islands
1.82	1.14	1.08	0.23	2.91	0.43	0.39	0.22	806	Marie_Byrd_Land_Coast_of_Antarctica
1.78	1.78	1.78	0.00	0.33	0.33	0.33	0.00	1	Pitcairn_Islands
1.70	1.44	1.50	0.19	0.43	0.32	0.32	0.08	18	American_Samoa
1.67	1.34	1.33	0.13	1.14	0.47	0.39	0.22	119	Northern_Chile
1.66	1.39	1.42	0.20	1.84	1.11	1.11	0.30	158	East_Side_of_South_Island_New_Zealand
1.61	0.74	0.68	0.22	1.11	0.43	0.45	0.21	139	West_Side_of_South_Island_New_Zealand
1.59	0.97	0.84	0.31	0.51	0.33	0.29	0.12	5	Wallis_and_Futuna
1.51	0.62	0.60	0.16	0.86	0.47	0.45	0.12	76	West_Side_of_North_Island_New_Zealand
1.51	0.89	0.88	0.18	0.98	0.30	0.25	0.14	147	Hawaii
1.50	1.26	1.19	0.15	1.47	1.18	1.15	0.20	4	Tonga
1.44	0.80	0.72	0.29	1.07	0.21	0.17	0.15	127	New_Ireland
1.31	1.07	1.13	0.23	0.19	0.15	0.16	0.04	3	Cook_Islands
1.30	0.66	0.68	0.26	0.83	0.33	0.31	0.16	75	Bougainville_Papua_New_Guinea
1.28	1.28	1.28	0.00	0.29	0.29	0.29	0.00	1	Tuamotu_Archipelago
1.28	0.70	0.69	0.19	0.97	0.38	0.34	0.18	407	East_Coast_of_Japanese_Main_Islands



1.25	0.83	0.83	0.19	1.01	0.44	0.41	0.14	382	Southern_Chile
1.18	1.00	0.96	0.13	0.32	0.19	0.13	0.09	3	Line_Islands_Kiribati
1.17	0.80	0.81	0.20	0.96	0.32	0.29	0.13	585	Northeast_Side_of_the_Antarctic_Peninsula
1.16	1.16	1.16	0.00	0.26	0.26	0.26	0.00	1	Gilbert_Islands_Kiribati
1.14	0.95	0.95	0.08	1.08	0.48	0.45	0.15	56	Guerrero_Mexico
1.13	0.97	0.99	0.08	0.90	0.50	0.50	0.17	68	Oaxaca_Mexico
1.13	0.62	0.83	0.40	1.17	0.44	0.49	0.34	163	Ecuador
1.12	0.79	0.81	0.16	1.16	0.50	0.47	0.21	157	Pacific_Coast_of_Kamchatka_Russia
1.11	0.70	0.67	0.17	0.79	0.23	0.19	0.12	339	Choisel_to_Philip_Solomon_Islands
1.11	1.11	1.11	0.00	0.17	0.17	0.17	0.00	1	Palmyra_Island
1.10	0.84	0.82	0.11	0.85	0.51	0.50	0.16	110	Pacific_Side_of_Baja_Sud_Mexico
1.09	0.84	0.84	0.12	1.09	0.40	0.38	0.16	91	Pacific_Coast_of_Panama
1.08	0.91	0.90	0.09	0.94	0.49	0.49	0.14	79	Pacific_Coast_of_Costa_Rica
1.07	0.92	0.90	0.07	0.62	0.36	0.34	0.11	27	Michoacan_Mexico
1.07	0.82	0.82	0.12	1.02	0.45	0.40	0.20	153	New_Caledonia
1.05	0.83	0.79	0.10	0.81	0.30	0.25	0.14	18	Santa_Cruz_Islands
1.02	0.95	0.97	0.06	1.81	0.51	0.48	0.23	274	Ellsworth_Land_Coast_of_Antarctica
1.02	0.41	0.35	0.20	0.56	0.18	0.13	0.12	101	
Urup_Etorofu_Kunashiri_Shikotan_and_Habomai_Islands									
1.02	0.89	0.87	0.07	0.69	0.40	0.38	0.12	12	Colima_Mexico
1.00	0.79	0.74	0.11	0.91	0.49	0.53	0.22	32	Nayarit_Mexico
1.00	0.87	0.87	0.10	0.71	0.39	0.38	0.13	33	Jalisco_Mexico
0.97	0.14	0.04	0.24	0.57	0.06	0.02	0.10	465	West_Coast_of_Japanese_Main_Islands
0.95	0.75	0.74	0.09	0.82	0.38	0.36	0.13	98	Pacific_Coast_of_Colombia
0.95	0.52	0.46	0.19	0.80	0.28	0.25	0.13	142	Southern_Queensland_Australia
0.94	0.84	0.84	0.06	0.88	0.46	0.42	0.14	75	Pacific_Side_of_Baja_Mexico
0.92	0.92	0.92	0.00	0.22	0.22	0.22	0.00	1	Tokelau
0.92	0.84	0.85	0.05	0.82	0.57	0.55	0.11	33	Pacific_Coast_of_Guatemala
0.89	0.53	0.53	0.14	0.63	0.22	0.19	0.11	350	Pacific_Coast_of_the_Philippines
0.89	0.81	0.81	0.05	0.95	0.61	0.59	0.15	28	Chiapas_Mexico
0.88	0.47	0.43	0.18	0.85	0.20	0.17	0.14	95	Kuril_Islands_Russia
0.88	0.79	0.78	0.05	0.82	0.56	0.55	0.10	35	Pacific_Coast_of_Nicaragua
0.87	0.66	0.61	0.13	0.53	0.26	0.20	0.16	4	Marshall_Islands
0.86	0.66	0.70	0.12	0.79	0.42	0.41	0.16	77	Sinaloa_Mexico
0.85	0.78	0.78	0.03	0.99	0.61	0.61	0.13	37	El_Salvador
0.85	0.37	0.36	0.08	0.57	0.22	0.20	0.09	328	Bering_Sea_Coast_of_Eastern_Russia
0.84	0.84	0.84	0.00	0.12	0.12	0.12	0.00	1	Jarvis_Island
0.83	0.83	0.83	0.00	0.22	0.22	0.22	0.00	1	Phoenix_Islands_Kiribati
0.82	0.51	0.50	0.13	0.57	0.15	0.14	0.07	99	Gulf_Side_of_Baja_Sud_Mexico
0.82	0.76	0.74	0.04	0.51	0.33	0.34	0.11	5	Northwestern_Hawaiian_Islands
0.80	0.69	0.69	0.06	0.54	0.31	0.31	0.09	23	Manus_Island_Papua_New_Guinea
0.77	0.41	0.34	0.14	0.76	0.25	0.19	0.14	164	Coral_Sea_Coast_of_Papua_New_Guinea
0.76	0.76	0.76	0.00	0.53	0.49	0.49	0.03	3	Pacific_Coast_of_Honduras
0.76	0.56	0.63	0.13	0.62	0.17	0.14	0.09	141	Solomon_Sea_Coast_of_Papua_New_Guinea
0.76	0.57	0.56	0.08	0.85	0.49	0.48	0.11	150	New_South_Wales_Australia
0.76	0.53	0.54	0.10	0.80	0.28	0.25	0.16	71	Trobriand_Woodlark_and_Louisiade_Islands
0.74	0.74	0.74	0.00	0.09	0.09	0.09	0.00	1	Howland_and_Baker



0.74	0.55	0.56	0.11	0.97	0.40	0.40	0.13	167	Tasmania
0.74	0.69	0.69	0.06	0.26	0.23	0.23	0.03	2	Izu_and_Ogasawara_Islands_Japan
0.73	0.54	0.48	0.11	0.31	0.15	0.13	0.05	19	Talaud_Islands_Indonesia
0.70	0.70	0.70	0.00	0.09	0.09	0.09	0.00	1	Tuvalu
0.70	0.70	0.70	0.00	0.14	0.14	0.14	0.00	1	Johnston_Atoll
0.70	0.47	0.43	0.10	0.31	0.13	0.11	0.06	82	New_Britain-Solomon_Sea_Coast_of_New_Britain
0.70	0.39	0.37	0.14	0.42	0.15	0.13	0.08	190	Halmahera_Indonesia
0.69	0.69	0.69	0.00	0.09	0.09	0.09	0.00	1	Kosrae_State_Micronesia
0.69	0.53	0.52	0.07	0.50	0.17	0.14	0.08	152	Bismarck_Sea_Coast_of_Papua_New_Guinea
0.69	0.53	0.52	0.08	0.25	0.12	0.09	0.05	19	Northern_Marianas
0.69	0.47	0.48	0.07	0.43	0.19	0.17	0.08	86	New_Britain-Bismarck_Sea_Coast_of_New_Britain
0.69	0.63	0.62	0.03	0.47	0.23	0.19	0.12	10	Pohnpei_State_Micronesia
0.67	0.52	0.52	0.09	0.68	0.26	0.24	0.13	81	Nansei_Islands_Japan
0.67	0.51	0.48	0.08	0.64	0.20	0.16	0.10	266	Pacific_Side_of_Papua_Indonesia
0.67	0.47	0.42	0.10	0.98	0.29	0.25	0.14	130	Victoria_Australia
0.65	0.54	0.52	0.09	0.22	0.15	0.16	0.04	12	Guam
0.63	0.62	0.62	0.00	0.45	0.35	0.31	0.07	3	Midway_Island
0.63	0.53	0.53	0.06	0.47	0.14	0.12	0.06	49	Eastern_Coast_of_Taiwan
0.60	0.54	0.55	0.04	0.50	0.23	0.19	0.14	15	Palau
0.59	0.47	0.42	0.10	0.55	0.16	0.13	0.10	97	Sonora_Mexico
0.59	0.57	0.59	0.06	0.13	0.09	0.09	0.02	40	Gulf_Side_of_Baja_Mexico
0.57	0.57	0.57	0.00	0.65	0.65	0.65	0.00	1	Chuuk_State_Micronesia
0.57	0.56	0.56	0.00	0.10	0.09	0.09	0.00	3	Wake_Island
0.57	0.57	0.57	0.00	0.08	0.08	0.08	0.00	1	Nauru
0.55	0.41	0.39	0.08	0.91	0.30	0.26	0.19	38	Komandorsky_Islands_Russia
0.54	0.11	0.10	0.08	0.29	0.03	0.02	0.03	264	Interior_Seas_of_the_Philippines
0.49	0.49	0.49	0.00	0.07	0.07	0.07	0.00	1	Minamitorishima_Japan
0.44	0.34	0.32	0.06	0.40	0.19	0.17	0.07	211	Northern_Queensland_Australia
0.44	0.28	0.26	0.06	0.18	0.08	0.07	0.04	13	Sangihe_Islands_Indonesia
0.41	0.22	0.18	0.07	0.18	0.12	0.11	0.03	32	Western_Coast_of_Taiwan
0.41	0.40	0.40	0.01	0.25	0.14	0.14	0.04	30	Southeastern_Coast_of_China
0.39	0.20	0.20	0.05	0.18	0.08	0.07	0.04	87	Celebes_Sea_Coast_of_Sulawesi_Indonesia
0.36	0.26	0.26	0.06	0.25	0.08	0.07	0.04	67	Celebes_Sea_Coast_of_the_Philippines
0.32	0.15	0.10	0.08	0.34	0.07	0.05	0.06	125	Western_Coast_of_the_Northern_Philippines
0.32	0.32	0.32	0.00	0.25	0.25	0.25	0.00	1	Yap_State_Micronesia
0.27	0.23	0.22	0.03	0.35	0.16	0.15	0.06	150	Sea_of_Okhotsk_Coast_of_Sakhalin_Russia
0.24	0.16	0.16	0.05	0.13	0.06	0.06	0.02	52	Sulu_Archipelago_Philippines
0.22	0.15	0.13	0.03	0.26	0.15	0.15	0.04	54	Western_Coast_of_Kamchatka_Russia
0.22	0.19	0.18	0.03	0.19	0.08	0.08	0.03	27	Celebes_Sea_Coast_of_Sabah_Malaysia
0.22	0.17	0.17	0.02	0.20	0.10	0.09	0.04	57	Celebes_Sea_Coast_of_Borneo_Indonesia
0.21	0.15	0.18	0.04	0.24	0.09	0.09	0.04	130	Southern_Coast_of_China
0.16	0.06	0.05	0.03	0.04	0.01	0.01	0.01	120	Sulu_Sea_Coast_of_the_Philippines
0.13	0.13	0.13	0.00	0.15	0.08	0.07	0.03	61	East_Coast_of_Russia_on_the_Sea_of_Okhotsk
0.11	0.06	0.06	0.02	0.06	0.03	0.03	0.01	130	Palawan_Island_Philippines
0.08	0.06	0.05	0.01	0.11	0.04	0.03	0.02	112	Southern_Coast_of_Vietnam
0.08	0.08	0.08	0.00	0.09	0.04	0.04	0.02	33	Northern_Coast_of_Vietnam
0.07	0.07	0.07	0.00	0.10	0.04	0.04	0.02	46	Hainan_Island_China



0.07	0.06	0.05	0.01	0.06	0.03	0.03	0.01	54	Sulu_Sea_Coast_of_Sabah_Malaysia
0.06	0.06	0.06	0.01	0.06	0.03	0.03	0.01	47	Tatarskiy_Straight_Coast_of_Sakhalin_Russia
0.06	0.05	0.04	0.01	0.03	0.02	0.02	0.01	43	East_Coast_of_Russia_on_the_Tatarskiy_Straight
0.05	0.05	0.04	0.01	0.04	0.03	0.03	0.01	16	Brunei
0.05	0.05	0.05	0.00	0.04	0.02	0.02	0.01	42	Southwest_Coast_of_Sabah_Malaysia
0.05	0.04	0.05	0.00	0.02	0.02	0.02	0.00	6	Natuna_Islands_Indonesia
0.04	0.04	0.04	0.00	0.04	0.02	0.02	0.01	51	Northwest_Coast_of_Sabah_Malaysia
0.04	0.03	0.02	0.01	0.04	0.01	0.01	0.01	148	
East_Coast_of_Russia_north_of_the_Korean_Peninsula									
0.03	0.02	0.02	0.00	0.03	0.01	0.01	0.00	89	Eastern_Coast_of_DPR_of_Korea
0.03	0.02	0.02	0.00	0.03	0.01	0.01	0.00	59	Eastern_Coast_of_the_Republic_of_Korea
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	118	Central_Coast_of_Venezuela
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	92	Caribbean_Coast_of_Panama
0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	59	Caribbean_Coast_of_Nicaragua
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	23	Caribbean_Coast_of_Costa_Rica
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	41	Belize
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	83	Caribbean_Coast_of_Honduras
0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180	Caribbean_Coast_of_Cuba
0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64	Western_Coast_of_Venezuela
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	8	Caribbean_Coast_of_Guatemala
0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34	Yucatan_Mexico
0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	130	Caribbean_Coast_of_Colombia
0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57	Gulf_of_Mexico_Coast_of_Cuba
0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18	Martinique
0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	Saint_Lucia
0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34	Atlantic_Coast_of_Venezuela
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	49	Guyana
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	51	Suriname
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	13	Saint_Vincent_and_the_Grenadines
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	67	Quintana_Roo_Mexico
0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	10	Grenada
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103	Bahamas
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	Guadeloupe
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91	Tabasco_and_Campeche_Mexico
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90	Veracruz_Mexico
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45	Amapa_Brazil
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	Cayman_Islands
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41	French_Guiana
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	Barbados
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	Dominica
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	Bonaire
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30	Trinidad_and_Tobago
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	Curacao
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105	Atlantic_Coast_of_Cuba
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7	Antigua_and-Barbuda
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45	Caribbean_Coast_of_Haiti
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70	Gulf_of_Gonave_Coast_of_Haiti



0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	Saba_and_Sint_Eustatius
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63	Caribbean_Coast_of_Dominican_Republic
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71	Jamaica
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66	Tamaulipas_Mexico
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	Aruba
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	Montserrat
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	Saint_Kitts_and_Nevis
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60	Atlantic_Coast_of_Dominican_Republic
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31	Atlantic_Coast_of_Haiti
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	Saint_Barthelemy
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	Anguilla
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	Sint_Maarten
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	Saint_Martin
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	Bermuda
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	Turks_and_Caicos_Islands