

**Subject:** PTWC FINAL TSUNAMI THREAT MESSAGE

**From:** <ptwc@ptwc.noaa.gov>

**Date:** 11/21/2016 3:09 PM

**To:** "ITIC Tsunami Bulletin Board" <tsunami\_bb@infolist.nws.noaa.gov>

ITIC Tsunami Bulletin Board  
TSUNAMI MESSAGE NUMBER 4  
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI  
2300 UTC MON NOV 21 2016

..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            7.3  
\* ORIGIN TIME          2100 UTC NOV 21 2016  
\* COORDINATES         37.3 NORTH 141.6 EAST  
\* DEPTH                10 KM / 6 MILES  
\* LOCATION             NEAR THE EAST COAST OF HONSHU JAPAN

EVALUATION  
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\* AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 7.3 OCCURRED  
NEAR THE EAST COAST OF HONSHU, JAPAN AT 2100 UTC ON MONDAY  
NOVEMBER 21 2016.  
  
\* BASED ON ALL AVAILABLE DATA... THE TSUNAMI THREAT FROM THIS  
EARTHQUAKE HAS NOW 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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- \* SEA LEVEL FLUCTUATIONS MAY CONTINUE ALONG SOME COASTS OF JAPAN OVER THE NEXT FEW HOURS.
- \* HAZARDOUS TSUNAMI WAVES ARE NOT EXPECTED ANYWHERE OUTSIDE OF JAPAN.

#### 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 LOCATION	GAUGE COORDINATES		TIME OF MEASURE (UTC)	MAXIMUM TSUNAMI HEIGHT	WAVE PERIOD (MIN)
	LAT	LON			
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NERA JP	34.9N	139.8E	2212	0.21M/ 0.7FT	08
OFUNATO HONSHU JP	39.0N	141.8E	2207	0.28M/ 0.9FT	12

- \* THE JAPAN METEOROLOGICAL AGENCY REPORTS TSUNAMI AMPLITUDES OF UP TO 0.90M ALONG THE EAST COAST OF HONSHU JAPAN.

#### NEXT UPDATE AND ADDITIONAL INFORMATION

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- \* THIS WILL BE THE FINAL STATEMENT ISSUED FOR THIS EVENT UNLESS NEW INFORMATION IS RECEIVED OR THE SITUATION CHANGES.
- \* 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 LOWER CASE-.
- \* 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 SPECIFICALLY 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 ONLY REFER TO U.S.  
NATIONAL TSUNAMI WARNING CENTER MESSAGES THAT CAN BE FOUND  
AT NTWC.ARH.NOAA.GOV.

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International Tsunami Information Center  
A UNESCO/IOC - NOAA Partnership  
1845 Wasp Blvd, Building 176  
Honolulu, HI 96818 USA  
Phone: 1-808-725-6050 Fax: 1-808-725-6055  
URL: <http://www.tsunamiwave.info/>