

6 July, 2011. No.1 and 2, Time: 19:33. **A TSUNAMI WARNING IS IN EFFECT FOR KERMADEC IS / TONGA / NEW ZEALAND, FOR ALL OTHER AREAS COVERED BY THIS BULLETIN... IT IS FOR INFORMATION ONLY AT THIS TIME.**

TSUNAMI BULLETIN NUMBER 002



PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
ISSUED AT 1933Z 06 JUL 2011

THIS BULLETIN APPLIES TO AREAS WITHIN AND BORDERING THE PACIFIC OCEAN AND ADJACENT SEAS...EXCEPT ALASKA...BRITISH COLUMBIA... WASHINGTON...OREGON AND CALIFORNIA.

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

A TSUNAMI WARNING IS IN EFFECT FOR KERMADEC IS / TONGA / NEW ZEALAND, FOR ALL OTHER AREAS COVERED BY THIS BULLETIN... IT IS FOR INFORMATION ONLY AT THIS TIME.

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

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 1903Z 06 JUL 2011
COORDINATES - 29.4 SOUTH 175.7 WEST
DEPTH - 48 KM
LOCATION - KERMADEC ISLANDS REGION
MAGNITUDE - 7.8

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	LAT	LON	TIME	AMPL	PER
BOAT COVE RAOUL IS	29.3S	177.9W	1922Z	0.68M / 2.2FT	04MIN
FISHING ROCK RAOUL	29.3S	177.9W	1923Z	0.84M / 2.7FT	04MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)
LON - LONGITUDE (E-EAST, W-WEST)
TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).
PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS CONFIRM THAT A TSUNAMI WAS GENERATED. THIS TSUNAMI MAY HAVE BEEN DESTRUCTIVE ALONG COASTLINES OF THE REGION NEAR THE EARTHQUAKE EPICENTER. AUTHORITIES IN THE REGION SHOULD TAKE APPROPRIATE ACTION IN RESPONSE TO THIS POSSIBILITY. THIS CENTER WILL CONTINUE TO MONITOR SEA LEVEL GAUGES NEAREST THE REGION AND REPORT IF ANY ADDITIONAL TSUNAMI WAVE ACTIVITY. THE WARNING WILL NOT EXPAND TO OTHER AREAS OF THE PACIFIC UNLESS ADDITIONAL DATA ARE RECEIVED TO WARRANT SUCH AN EXPANSION.

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

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

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
KERMADEC IS	RAOUL_IS.	29.2S 182.1E	1929Z 06 JUL
TONGA	NUKUALOFA	21.0S 184.8E	2017Z 06 JUL
NEW ZEALAND	EAST_CAPE	37.7S 178.5E	2052Z 06 JUL
NORTH_CAPE	34.4S 173.3E		2054Z 06 JUL
GISBORNE	38.7S 178.0E		2059Z 06 JUL
AUCKLAND(E)	36.7S 175.0E		2200Z 06 JUL

BULLETINS WILL BE ISSUED HOURLY OR SOONER IF CONDITIONS WARRANT. THE TSUNAMI WARNING WILL REMAIN IN EFFECT UNTIL FURTHER NOTICE.

THE WEST COAST/ALASKA TSUNAMI WARNING CENTER WILL ISSUE PRODUCTS FOR ALASKA...BRITISH COLUMBIA...WASHINGTON...OREGON...CALIFORNIA.

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HIZ001>003-005>009-012>014-016>021-023>026-062113- TSUNAMI INFORMATION
STATEMENT NUMBER 1 NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI
913 AM HST WED JUL 06 2011 TO - CIVIL DEFENSE IN THE STATE OF HAWAII
SUBJECT - TSUNAMI INFORMATION STATEMENT THIS STATEMENT IS FOR
INFORMATION ONLY. NO ACTION REQUIRED. AN EARTHQUAKE HAS OCCURRED
WITH THESE PRELIMINARY PARAMETERS ORIGIN TIME - 0903 AM HST 06 JUL 2011
COORDINATES - 29.4 SOUTH 175.7 WEST LOCATION - KERMADEC ISLANDS
REGION MAGNITUDE - 7.8 MOMENT EVALUATION THE PACIFIC TSUNAMI
WARNING CENTER HAS ISSUED A NON-EXPANDING REGIONAL TSUNAMI WARNING
FOR A PART OF THE PACIFIC NEAR THE EARTHQUAKE. BASED ON ALL AVAILABLE
DATA THERE IS NO DESTRUCTIVE TSUNAMI THREAT TO HAWAII. HOWEVER...
SOME COASTAL AREAS IN HAWAII COULD EXPERIENCE SMALL NON-DESTRUCTIVE
SEA LEVEL CHANGES AND STRONG OR UNUSUAL CURRENTS LASTING UP TO
SEVERAL HOURS. THE ESTIMATED TIME SUCH EFFECTS MIGHT BEGIN IS
0408 PM HST WED 06 JUL 2011 THIS WILL BE THE ONLY STATEMENT ISSUED FOR
THIS EVENT UNLESS ADDITIONAL DATA ARE RECEIVED.

ENDS

Issued by the: Ministry of Information and Communications, Nuku'alofa, 2011.