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WECA40 PHEB 300325
TSUCAR

TSUNAMI MESSAGE NUMBER 2
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI
1125 PM AST FRI JAN 29 2016

...A TSUNAMI ADVISORY CONTINUES IN EFFECT...

AUDIENCE

- * GOVERNMENT OFFICIALS... MEDIA... AND GENERAL PUBLIC OF PUERTO RICO... THE U.S. VIRGIN ISLANDS... AND THE BRITISH VIRGIN ISLANDS.

UPDATES IN THIS MESSAGE

- * THE EARTHQUAKE PARAMETERS HAVE BEEN REVISED.
- * TSUNAMI HEIGHT AND DURATION FORECASTS ARE NOW INCLUDED.
- * THE GENERATION OF TSUNAMI WAVES IS CONFIRMED.
- * TSUNAMI OBSERVATIONS ARE NOW INCLUDED.

EVALUATION

- * AN EARTHQUAKE WITH A PRELIMINARY MAGNITUDE OF 6.9 OCCURRED ABOUT 49 MILES NORTH OF PUERTO RICO AT 1100 PM AST ON FRIDAY JANUARY 29 2016.
- * A TSUNAMI WAS GENERATED BY THIS EARTHQUAKE.
- * BASED ON ALL AVAILABLE DATA... THERE IS A TSUNAMI THREAT TO PUERTO RICO AND THE VIRGIN ISLANDS OF SEA LEVEL FLUCTUATIONS AND STRONG OCEAN CURRENTS THAT COULD BE A HAZARD ALONG COASTS... BEACHES... IN HARBORS... AND IN COASTAL WATERS.
- * THE EARLIEST ESTIMATED TIME THAT HAZARDOUS SEA LEVEL FLUCTUATIONS AND STRONG OCEAN CURRENTS MAY BEGIN IN PUERTO RICO AND THE VIRGIN ISLANDS IS

1109 PM AST ON FRIDAY JANUARY 29 2016

- * ACTIONS TO PROTECT HUMAN LIFE... SAFETY AND PROPERTY SHOULD BE TAKEN IMMEDIATELY.

* PEOPLE MAY HAVE EXPERIENCED SHAKING FROM THE EARTHQUAKE.

PRELIMINARY EARTHQUAKE PARAMETERS - UPDATED

* THE FOLLOWING PARAMETERS ARE BASED ON A PRELIMINARY RAPID ASSESSMENT OF THE EARTHQUAKE AND CHANGES MAY OCCUR.

* MAGNITUDE 6.8
* ORIGIN TIME 1100 PM AST JAN 29 2016
* COORDINATES 19.2 NORTH 66.4 WEST
* DEPTH 8 MILES
* LOCATION ABOUT 49 MILES NORTH OF PUERTO RICO

RECOMMENDED ACTIONS

- * ACTIONS REQUIRED TO PROTECT HUMAN LIFE... SAFETY AND PROPERTY WILL VARY WITHIN THE TSUNAMI ADVISORY AREA.
- * PERSONS LOCATED IN OR NEAR THE OCEAN SHOULD MOVE OUT OF THE WATER... OFF THE BEACH AND AWAY FROM HARBORS... MARINAS... BAYS AND INLETS.
- * DO NOT GO TO THE SHORE TO OBSERVE THE TSUNAMI.
- * DO NOT RETURN TO EVACUATED AREAS UNTIL THE ALL CLEAR IS GIVEN BY LOCAL AUTHORITIES.
- * BE ALERT TO AND FOLLOW INSTRUCTIONS FROM LOCAL EMERGENCY MANAGEMENT OFFICIALS BECAUSE THEY MAY HAVE MORE DETAILED OR SPECIFIC INFORMATION FOR YOUR LOCATION.
- * BOATERS - WHERE TIME AND CONDITIONS PERMIT... MOVE YOUR BOAT OUT TO SEA TO A DEPTH OF AT LEAST 450 FEET.
- * BOATERS - IF AT SEA... AVOID ENTERING SHALLOW WATER... HARBORS... MARINAS... BAYS AND INLETS TO AVOID FLOATING AND SUBMERGED DEBRIS AND STRONG CURRENTS.

FORECASTS OF TSUNAMI ACTIVITY - UPDATED

- * ESTIMATED TIMES OF ARRIVAL -ETA- OF THE INITIAL TSUNAMI WAVE ARE GIVEN BELOW.
- * OBSERVED ARRIVAL TIMES MAY DIFFER FROM THESE ETAS AND THE INITIAL WAVE MAY NOT BE THE LARGEST.

- * THE FORECAST HEIGHT IS THE MAXIMUM EXPECTED WATER LEVEL ABOVE THE TIDE AT THAT COASTAL LOCATION.
- * THE FORECAST DURATION IS THE APPROXIMATE EXPECTED LENGTH OF TIME AFTER INITIAL IMPACT THAT THE TSUNAMI MAY CONTINUE TO BE A HAZARD.
- * A TSUNAMI IS A SERIES OF WAVES AND THE DURATION OF EACH WAVE CAN BE FIVE MINUTES TO ONE HOUR.

TERRITORY	COASTAL LOCATION	ETA (AST)	FORECAST HEIGHT	FORECAST DURATION
PUERTO RICO	ARECIBO	1109 PM	0.9-2.0 FT	6 HRS
	SAN JUAN	1109 PM	0.9-2.0 FT	6 HRS
	MAYAGUEZ	1118 PM	BELOW 1 FT	-----
	AGUADILLA	1119 PM	BELOW 1 FT	-----
	MONA ISLAND	1127 PM	BELOW 1 FT	-----
	PENUELAS	1137 PM	BELOW 1 FT	-----
	PONCE	1141 PM	BELOW 1 FT	-----
	MAGUEYES IS	1144 PM	BELOW 1 FT	-----
	FAJARDO	1147 PM	BELOW 1 FT	-----
	YABUCOA	1147 PM	BELOW 1 FT	-----
	CAJA DE MUERTOS	1151 PM	BELOW 1 FT	-----
	CULEBRA IS	1201 AM	BELOW 1 FT	-----
VIEQUES IS	1202 AM	BELOW 1 FT	-----	
USVI	CHRISTIANSTED	1141 PM	BELOW 1 FT	-----
	LIMETREE	1144 PM	BELOW 1 FT	-----
	LAMESHUR BAY	1207 AM	BELOW 1 FT	-----
	CHARLOTTE AMALIE	1219 AM	BELOW 1 FT	-----
BVI	ANEGADA	1134 PM	BELOW 1 FT	-----
	VIRGIN GORDA	1155 PM	BELOW 1 FT	-----
	ROADTOWN	1255 AM	BELOW 1 FT	-----

OBSERVATIONS OF TSUNAMI ACTIVITY

- * THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED LOCATIONS.
- * THE MAXIMUM TSUNAMI HEIGHT IS THE HIGHEST MEASURED SO FAR. IT IS MEASURED WITH RESPECT TO THE TIDE LEVEL.

GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE (AST)	MAXIMUM TSUNAMI HEIGHT
	LAT	LON		
MAYAGUEZ PR	18.2N	67.2W	1123 PM	0.4 FT

SAN JUAN PR	18.5N	66.1W	1119 PM	1.4 FT
ARECIBO PR	18.5N	66.7W	1114 PM	1.3 FT

IMPACTS

- * IMPACTS WILL VARY AT DIFFERENT LOCATIONS WITHIN PUERTO RICO AND THE VIRGIN ISLANDS.
- * SEA LEVEL FLUCTUATIONS THAT ARE GENERALLY LESS THAN 3 FEET ABOVE AND BELOW THE TIDE LEVEL.
- * WAVES AND CURRENTS THAT CAN DROWN OR INJURE PEOPLE IN THE WATER.
- * WAVES AND CURRENTS ON BEACHES AND IN HARBORS... MARINAS... BAYS... AND INLETS THAT MAY BE ESPECIALLY DANGEROUS.
- * THE HAZARD BEGAN AROUND 1109 PM AST ON FRIDAY JANUARY 29 2016 AND IT CAN PERSIST FOR MANY HOURS OR LONGER.

NEXT UPDATE AND ADDITIONAL INFORMATION

- * THE NEXT MESSAGE WILL BE ISSUED IN THIRTY MINUTES... OR SOONER IF THE SITUATION WARRANTS.
- * FURTHER INFORMATION ABOUT THIS EVENT AND ANY TSUNAMI THREAT TO PUERTO RICO AND THE VIRGIN ISLANDS MAY BE FOUND ON THE INTERNET AT WWW.TSUNAMI.GOV.
- * INFORMATION REGARDING ANY TSUNAMI THREAT TO US GULF OR ATLANTIC COASTS WILL BE ISSUED BY THE US NATIONAL TSUNAMI WARNING CENTER AND CAN BE FOUND ON THE INTERNET AT WWW.TSUNAMI.GOV.
- * AUTHORITATIVE INFORMATION ABOUT THE EARTHQUAKE CAN BE OBTAINED FROM THE CORRESPONDING REGIONAL SEISMIC NETWORK OR THE U.S. GEOLOGICAL SURVEY ON THE INTERNET AT EARTHQUAKE.USGS.GOV/EARTHQUAKES -ALL LOWERCASE LETTERS-.

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