MARINE CORPS BASES HAWAII COMMUNITY BRIEFING ON TSUNAMIS 28 FEB 2018

A AWAII RODUCE READINES PROJECT POWER

JACQUELINE FREELAND

INSTALLATION PROTECTION



Provide you with information and understanding to be prepared for a Tsunami hitting the State of Hawaii.

How will we do this?

Understand the Elements of a Tsunami

Different Types of Tsunamis

Know what to do during a Tsunami
How to be prepared
No Question or Answer period out of courtesy of other's time

- A Tsunami or tidal wave, is a <u>series</u> of waves caused by the displacement of a large volume of water, generally in an ocean.
- Earthquakes, volcanic eruptions, other underwater explosions, landslides, glacier calving, or meteorite impacts above or below water, all have the potential to generate a Tsunami.



- A Tsunami can happen at any time.
- A Tsunami can reach a height of 100 feet (30 meters).
- A Tsunami can travel up to 500 mph.
- Multiple waves will impact the coastline
- Could take hours from when first wave arrives to "all clear"



Different Types of Tsunami

- <u>Tsunami</u>:
 - Past tsunamis
 - Distance Local travel time
 - Size of wave and size of earthquake.





Different Types of Tsunamis

- Extreme Tsunami: Worst case –
- New data gathered by experts that a tsunami similar to the Japan Tsunami could happen in Hawaii.
- 1-1000 years
- Aleutian Islands
- 9.2 Earthquake
- 4-6 hrs arrival time

Japan's Worse Case

North States



The 330 ton Kyotokumaru was swept by the towering tsunami from the city's dock for about 750 meters into a residential district of Kesennuma.

A tsunami wave crashes over a seawall in the city of Miyako, Japan

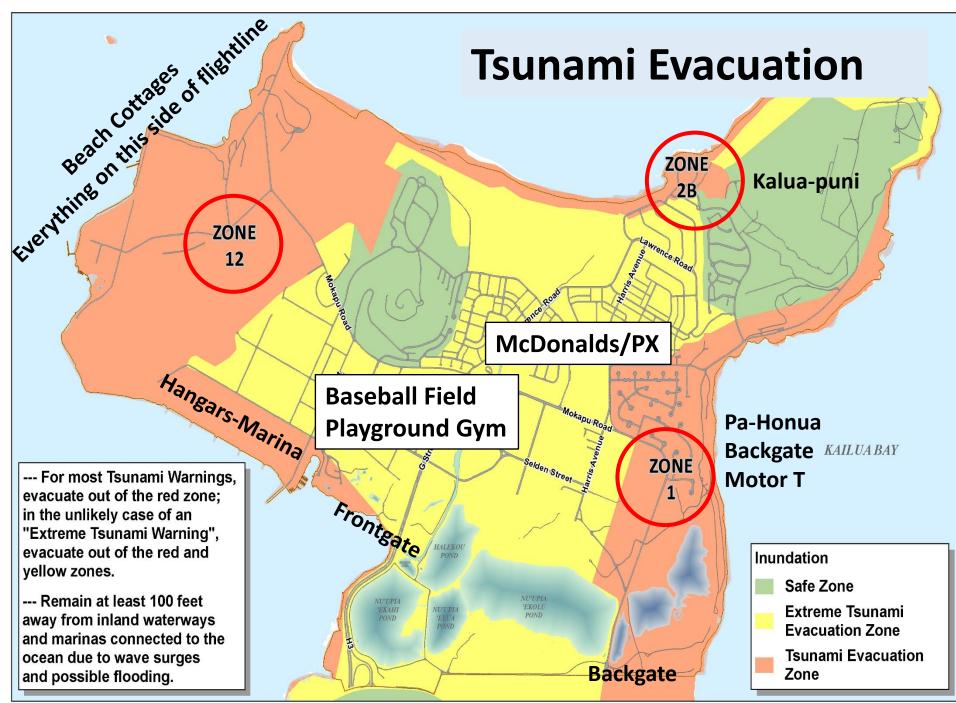


Understand the Elements of an Tsunami Before it Happens Possible effects to MCB Kaneohe Bay: Loss of Life Loss of Living Quarters Loss of Government assets Loss of Utilities (Electricity and Water) Loss of shipping capability to Hawaii Possible effects to Camp Smith and Manana Housing Loss of communications & Utilities Loss of Shipping capability to Hawaii Other areas Same as the above

Know What to do During a Tsunami

Tsunami:

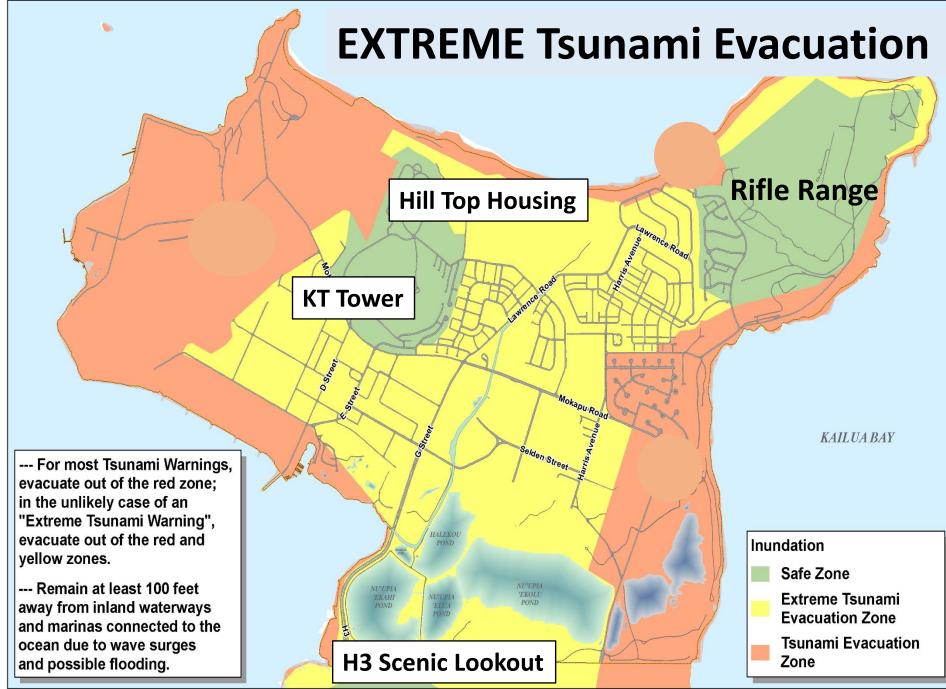
Evacuation to safe haven
All beaches/ocean front areas.
Zones 1, 2B and 12.
Everyone else is in a safe location.



Know What to do During a Tsunami

Extreme Tsunami:

- Evacuation of entire Base
 - Ul'upau Rifle Range
 - Kansas Tower Hilltop area by O'Club
 - H3 to the scenic lookout.



Know What to do During a Tsunami

 Pu'uloa and Marine Corps Training Area Bellows

All other communities

- Move inland immediately
- Go to:
 - http://www.honolulu.gov/dem.html
 - http://ptwc.weather.gov/



Know What You Should do During a Tsunami

- MCBH will shutdown the gates ½ hr prior to wave arrival, gates are in the inundation zones.
- Gates closed for up to 4+- hrs because of the continuation of waves.
- MCBH will make every effort to open up "facilities" if after hours so personnel can use for comfort.

How to Be Prepared

 <u>Preparedness</u>: a set of actions that are taken as precautionary measures in the face of potential disasters.

Tonight's focus is on <u>individual</u> preparedness

- Alerts
- Stay Connected
- Prepare a "GO KIT"

Alerts

Alerts

- Pacific Tsunami Warning Center here in Hawaii sends out the alert
 - Watch Pacific Warning Center is still investigating.
 - Warning Confirmed Tsunami
- During a warning, the State will activate the Emergency Alert System (Sirens, Radio and TV and cell phones).
 - The Siren aboard MCBH is activated by the State
- MCBH will augment the State's Alert System and activate the EOC
 - Speaker System (Meant for those that are outside)
 - Social Media
 - ATHOC (Text, phone calls, emails)
 - Patrols



- If you FEEL THE EARTH SHAKE
- If the ocean water recedes
- If you hear a roaring sound off shore
- If Immediately RUN away from the beach and up to higher ground.
- If you hear the sirens
- Stay connected on Social Media
- Turn to your radio or television for information.





Take Actions <u>Now to Ensure You</u> Are Ready

- Prepare a "Go Kit" that will help you to survive for a few days
 - Food, water, diapers and formula for infant
 - Prescription medicine
 - Can opener/pocket knife
 - Important Documents
- Have a pet plan to include food
- Get connected on MCBH's Social Media sites and sign-up for ATHOC.





What MCBH is doing to better prepare

- Constant planning with Tenant Commands and Interagency Partners
 - State, City and County, FEMA, Military on Island
- Base has a 24/7 duty officer and Provost Marshal's Office to monitor and take action 24/7.

Information in Lobby:

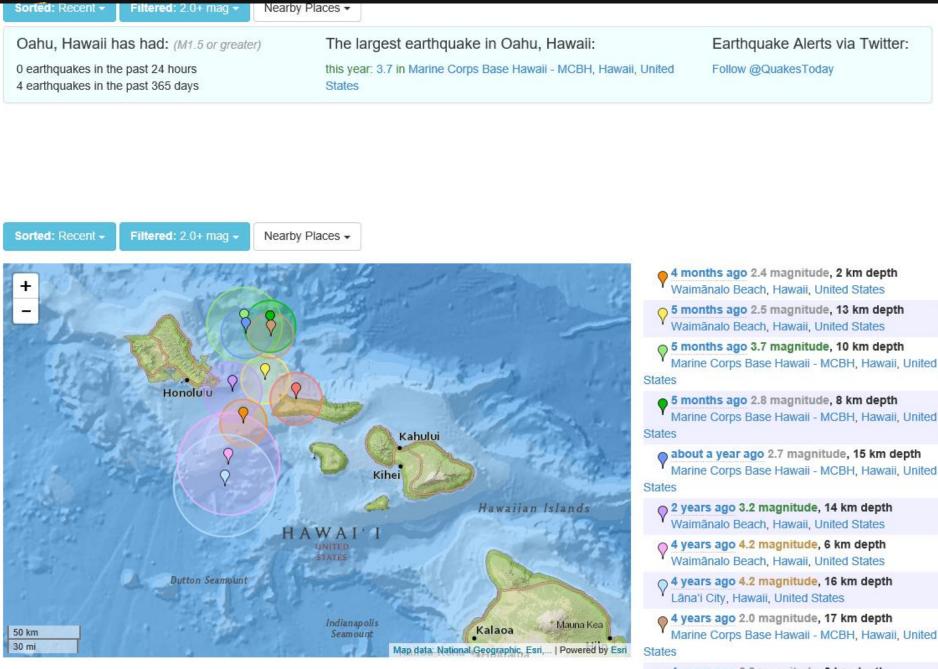
- Tsunami evacuation Maps
- Information on how to sign-up for; social media, ATHOC and how to get to our webpage
- Information on what types of supplies you might need
- Jacqueline.freeland@usmc.mil, 257.8845
- http://www.mcbhawaii.marines.mil

Closing Comments





A tsunami-tossed boat tossed by giant waves lies atop a building in the city of Otsuchi in northern Japan



4 years ago 2.8 magnitude, 0 km depth Kualapu'u, Hawaii, United States

