#### MARINE CORPS BASES HAWAII COMMUNITY BRIEFING ON TSUNAMIS

ROJECT POWER RODUCE READINESS ROMOTE RESILIENCY ROTECT DESOURCES 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 series 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

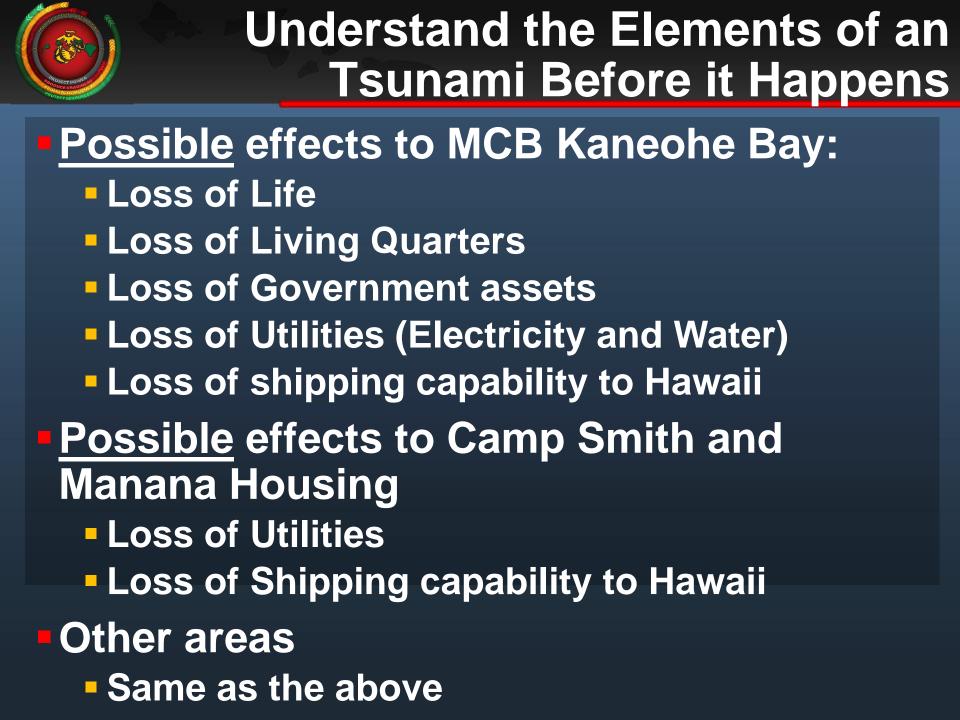
#### **Japan's Worse Case**

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.

North States

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





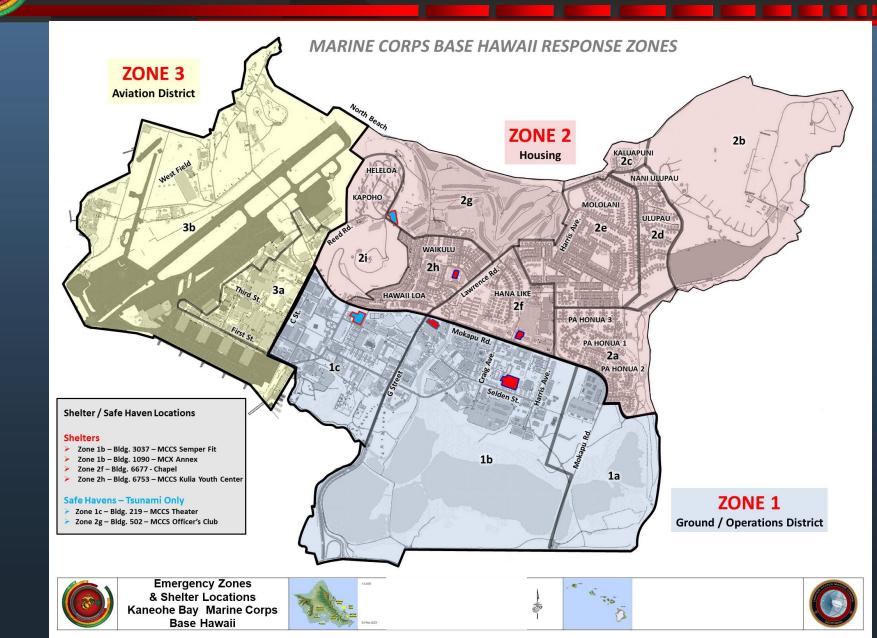
### Know What to do During a Tsunami

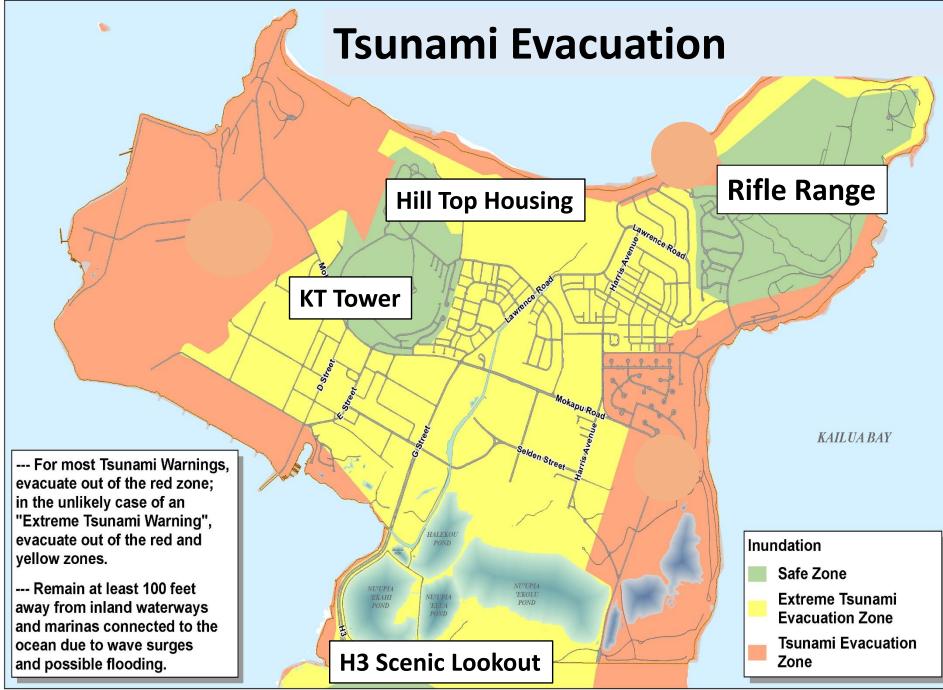
#### Tsunami:

Evacuate to safe haven

- All beaches/ocean front areas.
- Outside Zones 1a, 2a, 2b and 3b, Pu'uloa and Marine Corps Training Area Bellows.
- Everyone else is in a safe location.

#### **MCBH** Zones





## 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:
  - https://www.honolulu.gov/dem.html

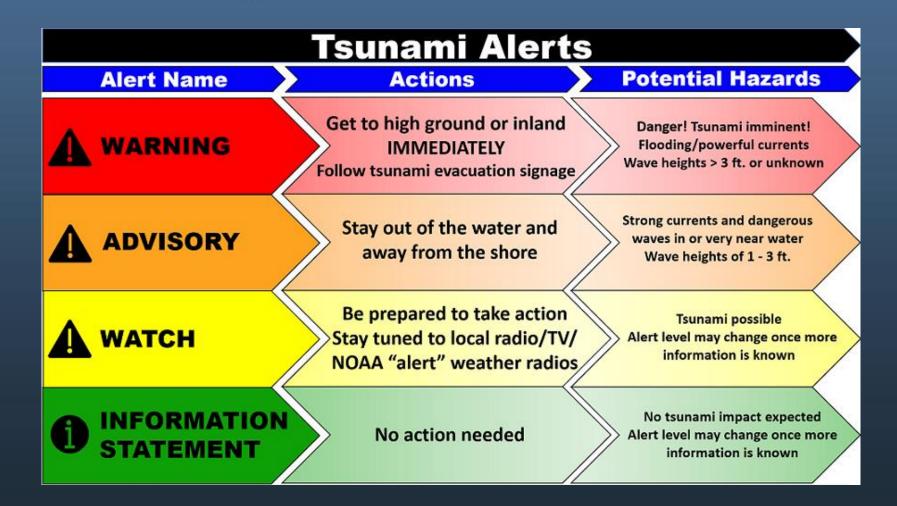
https://www.tsunami.gov/



## Know What You Should do During a Tsunami

- MCBH will shutdown the gates ½ hr prior to wave arrival.
- 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.

#### Definitions



## How to Be Prepared

 Preparedness: 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

## Alerts



#### Stay Alert

- If you FEEL THE EARTH SHAKE
- If the ocean water recedes
- If you hear a roaring sound off shore
- If you hear the sirens
- Stay connected on Social Media
- Turn to your radio or television for information.













AtHoc

Social Media Telephone

e Smartphone

Giant Voice PLMR



## Take Actions <u>Now</u> to Ensure You 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

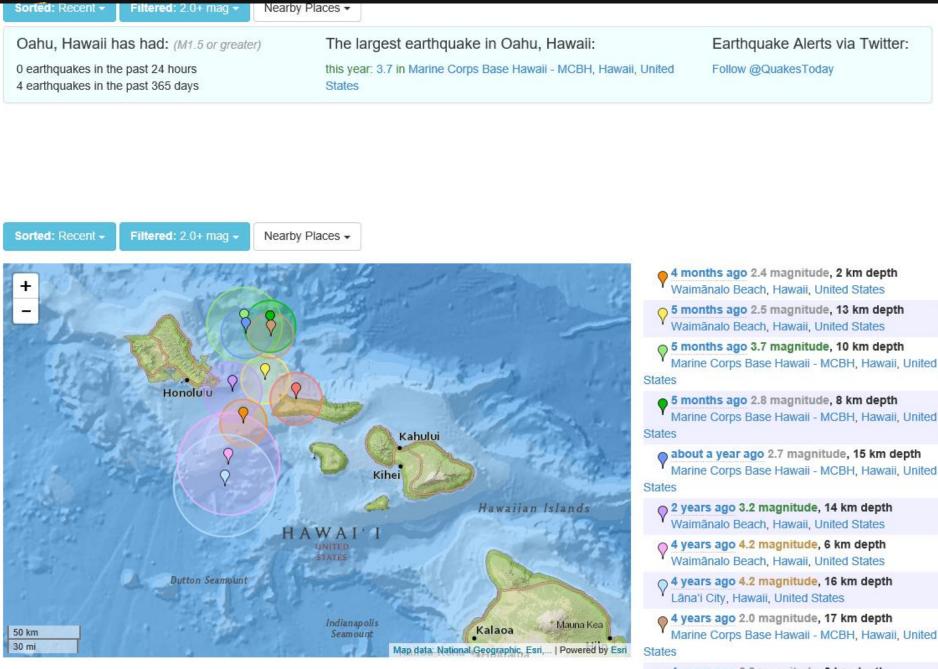
- State, City and County, FEMA, other Military on Island
- Base has a 24/7 duty officer and Provost Marshal's Office to monitor and take action 24/7.
- Information in Lobby:
  - Tsunami evacuation Maps
  - Information on how to sign-up for; social media, ATHOC and how to get to our webpage
  - Information on what types of supplies you might need
- MCBH.EOC.Coordinator@usmc.mil 257.8460
- https://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

