



Intergovernmental
Oceanographic
Commission



UNESCO/IOC – NOAA ITIC Training Program in Hawaii (ITP-TEWS Chile)
TSUNAMI EARLY WARNING SYSTEMS
AND THE PACIFIC TSUNAMI WARNING CENTER (PTWC) ENHANCED PRODUCTS
TSUNAMI EVACUATION PLANNING AND UNESCO IOC TSUNAMI READY PROGRAMME
19-30 August 2024, Valparaiso, Chile

TR PREP-3

Creating Awareness Materials using online tools, Canva

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PURPOSE

1. Provide information on basic tsunami hazard, and tsunami safety guidance
2. Build tsunami awareness and preparedness according to the needs of the community

Essential components - General

Customize to target audience to ensure understanding

1. Educational, basic topics, e.g., What is a tsunami, natural tsunami signs, tsunami safety, etc.
2. Effectively communicate hazard information (type and method of distribution).
3. Show clearly the needed tsunami evacuation information (map, instruction, etc).
4. Include standard information, e.g., Title (topic), Contact Info (Authority), Logos, Legend if map
5. Include technical information (tsunami science) if needed

Tsunamis

1

Antes

Esté siempre preparado(a), un tsunami puede ocurrir en cualquier momento

- a) Prepare un plan familiar de emergencia
- b) Tenga a mano un maletín de seguridad
- c) Conozca las zonas de evacuación y los lugares de Asamblea
- d) Identifique las rutas de evacuación



2

Señales

Esté atento(a) a cualquiera de estas señales

- a) Terremoto muy fuerte (se hace difícil caminar, se caen objetos)
- b) Terremoto de larga duración
- c) Mensaje oficial de la CNE
- d) Cambio repentino en el nivel del mar
- e) Ruido fuerte del mar



3

Terremoto

Protéjase en caso de terremoto

- a) Agáchese
- b) Cúbrase
- c) Agárrase

Evacuación

4

Salga de la zona de evacuación
(En orden de preferencia:)

- a) Vaya a un lugar alto y alejado de la costa
- b) Súbase a un segundo piso o más alto
- c) Súbase a un árbol
- d) Vaya a un lugar de reunión (refugio)
- e) Si hay tiempo, lleve las embarcaciones costa afuera a 100m de profundidad



Regreso

5

Quédese fuera de la zona de evacuación hasta que las autoridades le indiquen que ha pasado el peligro.
Esto puede llevar varias horas



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HAWAII STATE
DEPARTMENT
OF HEALTH

A simple guide to nine essential items you should pack BEFORE a disaster or emergency occurs.

Plan 9

1 Water

Bottled water. One gallon per person, per day, for at least 7 days, for drinking and sanitation.

- Keep the water in a cool, dark place and change to a fresh supply every six months.



Done

2 Food

Nonperishable food. A supply of at least 7 days of food per person.

- Ready to eat canned meat, fruit and vegetables
- Powdered milk and soup
- Crackers, granola, trail mix
- Manual can opener



Done

3 Radio

A battery-powered radio for listening to news and weather.

- Consider buying a crank-operated or solar-powered radio.
- Don't forget extra batteries! Buy them in advance in case they're in short supply.



Done

4 Medications

Collect at least a week's worth of any prescription medicines you're taking.

- Be sure to note the expiration date so you don't keep them past their date.



Done

5 Clothes

Collect one change of clothes and footwear per person.

- Consider packing blankets, rain gear and outerwear in case of inclement weather.
- If you wear glasses, consider packing a spare pair.



Done

6 Flashlight

Keep a bright flashlight in case there's no electric power.

- Consider getting a lantern-style light for hands-free use.
- Don't use candles! They're a fire hazard and are easy to lose track of when the lights come back on.



Done

7 Hygiene Items

Just the basics like soap, toilet paper and a toothbrush.

- Moist towelettes can be useful for quick sanitation.



Done

8 First Aid

Basics such as antiseptic, gloves, bandages and non-prescription medicines.

- You can buy a pre-made kit at most pharmacies or grocery stores.



Done

9 Cash

Enough money (in small bills) to purchase extra food, water or other items, for at least 7 days.



Done

For more information about emergency preparedness, contact some of the following organizations:

Hawaii Department of Health	www.health.hawaii.gov
Hawaii Emergency Management Agency	www.ecd.hawaii.gov/preparedness.html (includes links to neighbor islands)
Dept. of Emergency Mgmt. (Oahu)	www.honolulu.gov/em.html
American Red Cross	www.redcross.org
Centers for Disease Control and Prevention	www.cdc.gov
Federal Emergency Management Agency	www.fema.gov
Department of Homeland Security	www.ready.gov

HNL.Info

STAY INFORMED

Urgent Traffic Bulletins, Emergency Information,
Severe Weather Alerts, City Information
and much more.

HNL Info



Empowered lives.
Resilient nations.



WHAT IS TSUNAMI?

It is a series of waves in the sea produced by a strong earthquake, landslide or volcanic eruption.

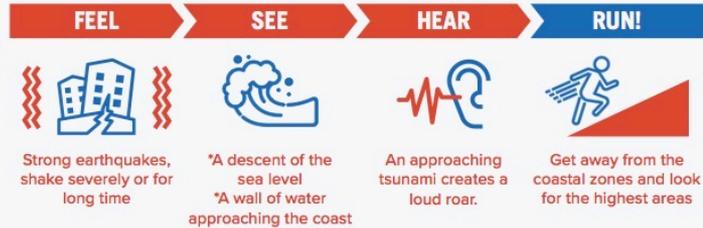
WHEN DOES IT HAPPEN?

It can occur at any time and arrive in a few minutes to the coast. Tsunamis travel at the speed of a supersonic jet or plane

EFFECT OF A TSUNAMI

It floods the coast and devastates everything. A tsunami wave can grow up to 10 meters high or even more

SIGNS OF A TSUNAMI



TSUNAMI EVACUATION DRILL



Source: COPECO HONDURAS, IOTIC, ITIC, LIPI

FOR YOUR SAFETY !

EARTHQUAKE READY



- Be alert, a strong or long earthquake may trigger a tsunami in short time.
- Move away from beaches and river banks, and seek information on what has happened.

TSUNAMI WARNING READY



- Seek warning information from BMKG on national TV, local radio, or public announcement in your area.
- If there is a sound of siren or other warning dissemination devices, evacuate immediately.

BMKG Warning information provides tsunami THREAT LEVEL for each region

MAJOR WARNING

Highest threat level, **The communities must evacuate !**

WARNING

Medium threat level, but still dangerous ,

The communities must evacuate !

ADVISORY

Low threat level, **The communities must move away from beaches and riverbanks !**

EVACUATION READY



- Upon feeling the earthquake or receiving tsunami warning, evacuate immediately to designated safe locations.
- Follow the evacuation route and signage, if available.
- If you don't know the location of the safe zone, run as far as possible from the coast

WARNING INFORMATION DISPLAY ON NATIONAL TV

Information on the time of origin of the earthquake



Information on the magnitude of the earthquake

Information on the epicenter of the earthquake

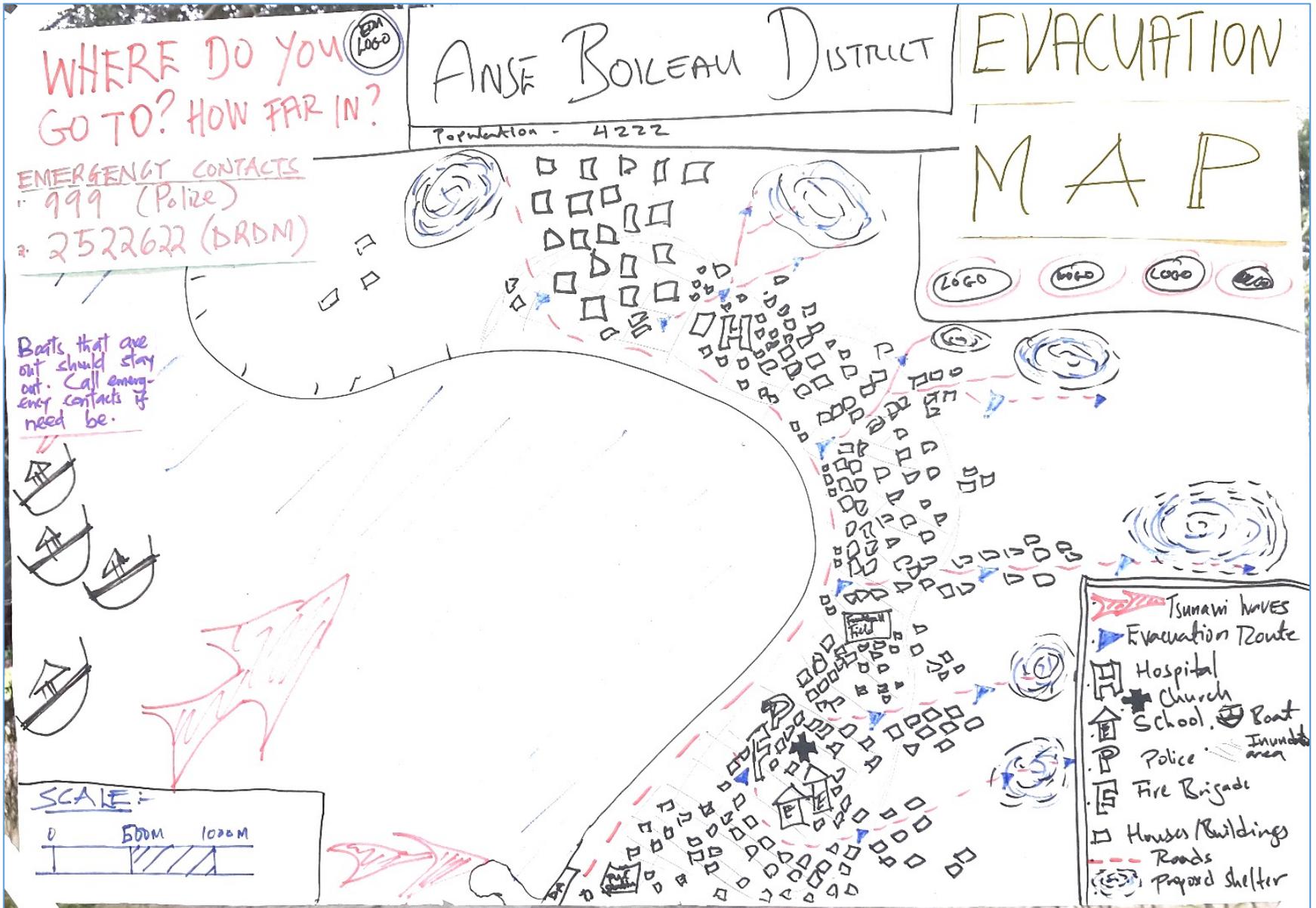
Information on the regions with tsunami warning

Information on regions with tsunami warning :

- **Red** colour = **MAJOR WARNING** level
- **Orange** colour = **WARNING** level
- **Yellow** colour = **ADVISORY** level

Prepare yourself from now !

- **Learn about tsunami and its signs !**
- **Find information from your local government about tsunami evacuation procedures in your area !**
- **Plan with your family on how to respond to a tsunami !**



PUBLIC INFORMATION: CREATE AWARENESS POSTER – EXAMPLE FROM PREVIOUS ITP

TSUNAMI

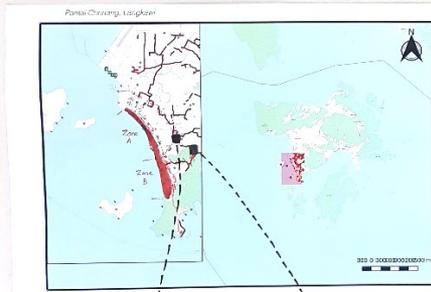
EVACUATE TO HIGHER GROUND

If you feel an Earthquake...

20 sec. & above

Potential TSUNAMI may occur.
-ALERT for siren trigger

TSUNAMI EVACUATION MAP FOR PANTAI CHENANG



EVACUATION AREA

SMK CHENANG

CAPACITY: 500 VICTIMS

ZONE A

EVACUATION AREA

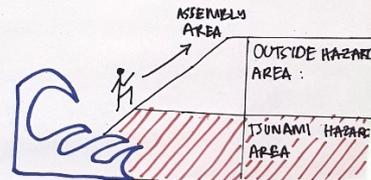
DEWAN SERBA GUNA CHENANG

CAPACITY: 500 VICTIMS

ZONE B

WHAT TO DO ?

- AVOID COASTAL AREA
- RUN IF YOU SEE TSUNAMI WAVE COMING
- SELF EVACUATE TO DESIGNATED AREA (HIGHER GROUND)
- FOLLOW INSTRUCTIONS GIVEN BY LOCAL AUTHORITIES



By:
Malaysian Rep.

22-11-2019

Don't Hesitate to "EVACUATE"

If you hear roar after reported seismic activity.

Authorities release evacuation orders

If you feel Ground Shaking for \uparrow 20s

If you see water withdraw unusual distance

Do not panic

Take your Grab bag

RUN

You have less than 3 hrs to

Tsunami can cause massive destruction and LOSS OF LIFE

Take the nearest and Safest Route

Your Evacuation Centre IS SCHOOL

Follow the Guidance of the authorities.

KIDS

Tsunami = BE PREPARED. SAVE A LIFE =

What to know

Tsunami is not always caused by an Earthquake

We have less than **3** hrs for Evacuation from the nearest source.

Tsunami can cause MASSIVE Destruction and loss of life.

Are You at Risk? - Refer to or evacuation maps.

When to Evacuate

If you feel a ground Shaking for more than 20s

When Authorities release evacuation order

If you see water withdraw an unusual distance

If you hear a strong roar, after reported seismic activity.

If you witness any of the above warning signs, or evacuation order, locate the safe route and **EVACUATE!!** But Remember the "Don'ts"

- 1) DO NOT PANIC
- 2) Do not forget your IDs, Prescriptions, Cards and other essential documents.

Follow the Media for update from official Authorities !!

ADULTS

PUBLIC INFORMATION: CREATE AWARENESS POSTER – EXAMPLE FROM PREVIOUS ITP

TSUNAMI BE ALERT!



FEEL
Feel the ground shaking severely or for a long time

SEE
See unusual disappearance of ocean water or oncoming wall of water

HEAR
Hear the roaring sound similar to that of a train or jet aircraft

RUN

RUN

RUN



**MOVE INLAND
OR GO TO 4TH
FLOOR OR
ABOVE!**

**IN A BUILDING AT
LEAST 10 STORIES
OR TALLER**

#TsunamiDay #EarlyWarningForAll #GetToHighGround



RED LOBSTER TSUNAMI RESPONSE PLAN

Long or Strong,
GET GONE













LONG AND STRONG

GO TO 4TH FLOOR OR ABOVE

PUBLIC INFORMATION: CREATE AWARENESS POSTER – EXAMPLE FROM PREVIOUS ITP



1. **Create Awareness Information – poster, flyer, social media post**
2. **Tools – Use Canva online software (free version)**
3. **How**
 - Create Canva free account.
Review PPTs (PDFS: Using Canva, How to upload original designs)
 - Watch videos. Use playlist, or individual URLs
<https://www.youtube.com/playlist?list=PLVuF658wCrzWY2jPG9bSqEhqNtYDfUTol>
 - Activity 1. Watch video - how to add logos and text to an existing image from World Tsunami Awareness Day - screen shot of steps.
https://youtu.be/Q_Ee6jVVuN4
 - Activity 2. Watch video - how to develop your own awareness material. Example for CARIBE WAVE. <https://youtu.be/9suYrh9P6SA>
4. **Share with class**
(email itp2024@shoa.cl or [WhatsApp ITC-TWS-CHILE](#))
5. **Time – about 1 hour**



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Thank You

Muchas Gracias

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