



*Training/Workshop on
Tsunami Evacuation Maps, Plans, and Procedures and
the UNESCO-IOC Tsunami Ready Recognition Programme for the Indian Ocean Member States
Hyderabad - India, 15-23 April 2025*

Tsunami Evacuation Maps, Plans, and Procedures

TEMPP 08: Principles in Tsunami Evacuation Signages

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Tsunami Evacuation Sign



Tsunami Evacuation Signages are visual markers and information systems strategically placed along tsunami evacuation routes and in tsunami-prone areas. These signs are designed to guide individuals to safety during an evacuation, providing clear, easy-to-understand directions in the event of a tsunami warning or emergency.

Tsunami Signage Types

- Signage is an effective mechanism for **public education** on the **tsunamis risk** and the **evacuation** response to a tsunami threat
- Stakeholders, including the public, should examine **signage locations and types** during the planning process
- Four basic categories of **tsunami sign types** are:
 1. Evacuation zone
 2. Evacuation route
 3. Evacuation safe-location/assembly areas
 4. Information board

Key Concepts

- Clear and Simple Messaging
- Visibility and Durability
- Key Locations for Placement
- Evacuation Direction
- Evacuation Timeliness
- Maintenance and Updates
- Integration with Other Warning Systems



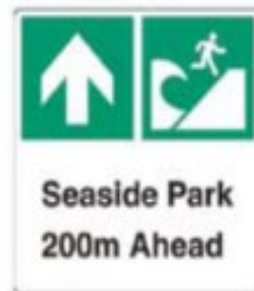
Design of Evacuation Signage

- Many different tsunami signs are available around the world, though three basic signs (hazard / evacuation zone, horizontal safe point, and vertical shelter) were agreed upon and adopted by the International Organization for Standardization (ISO 20712).
- Signage must be in sync with local community education, preparedness, and mitigation programs



International Standards ISO 20712

		
Warning: Tsunami hazard zone To warn of a hazard from tsunami waves	Tsunami Evacuation Area To indicate the location of a safe place/uphill area for evacuation in the event of a tsunami	Tsunami Evacuation Building To indicate the location of a safe building for evacuation in the event of a tsunami



Evacuation route to tsunami evacuation area



Evacuation route to tsunami evacuation Building

Tsunami Information Board in Bali / Indonesia

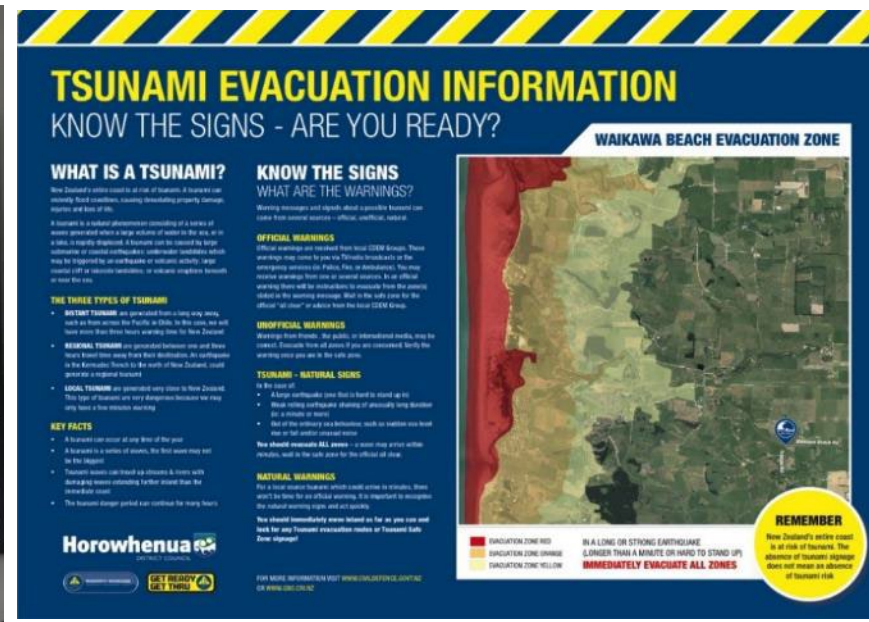


To provide information on tsunami hazard and safety measures and help building community's awareness and preparedness

Contents of Tsunami Information Boards



Panggarangan, Banten, Indonesia



Tsunami Evacuation Information in New Zealand



Tsunami Evacuation

- Evacuation Map and Procedures
- Explanations of Signage Symbols
- Tsunami Warning Procedures

Tsunami Hazard

- Tsunami Hazard Zone
- Type of tsunamis
- Key Facts about tsunami
- Historical tsunamis

Understanding the warnings

- Official Warning
- Un-Official Warning
- Natural warning signs

Languages

Information can be provided in 2 or more languages



Assembly Area and Evacuation Route Signs in Manggarai Barat-NTT, Indonesia use 5 languages (Indonesian, English, French, Mandarin, Japanese, and Arabian)



Tsunami Evacuation Map Sign Board in Tanjung Benoa-Bali, Indonesia
Use 2 languages (Indonesian and English)

Community Participation

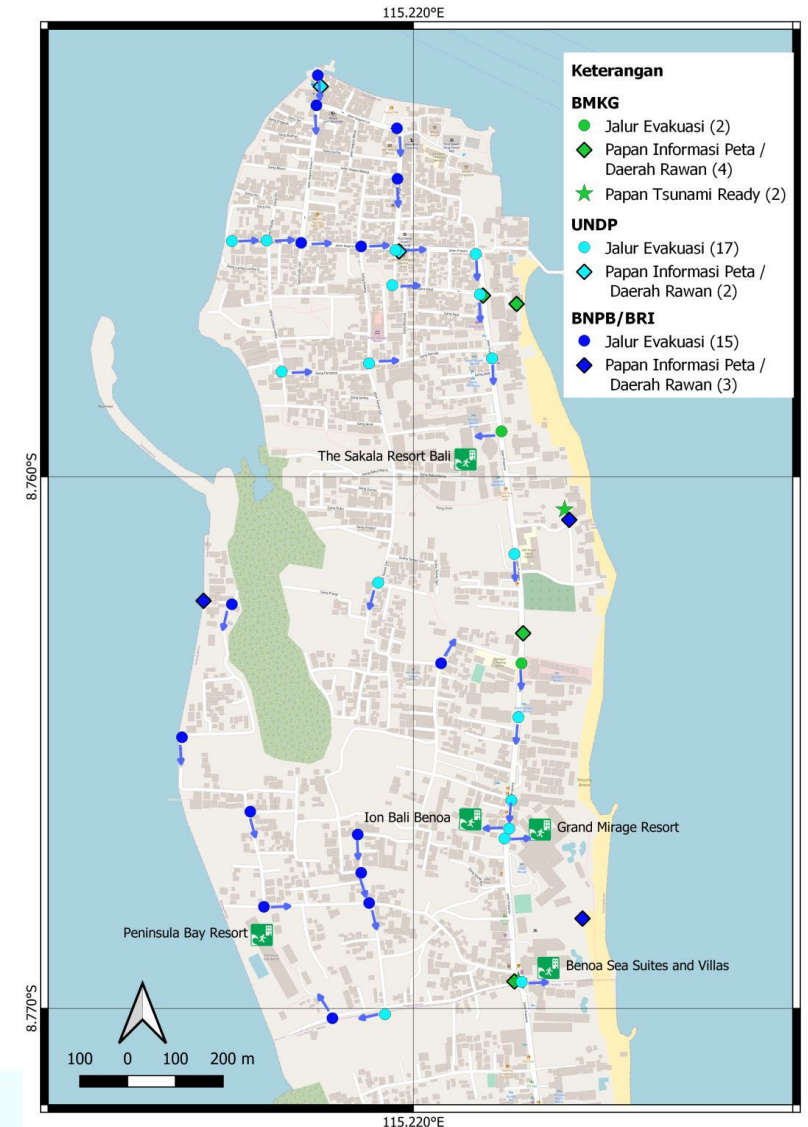
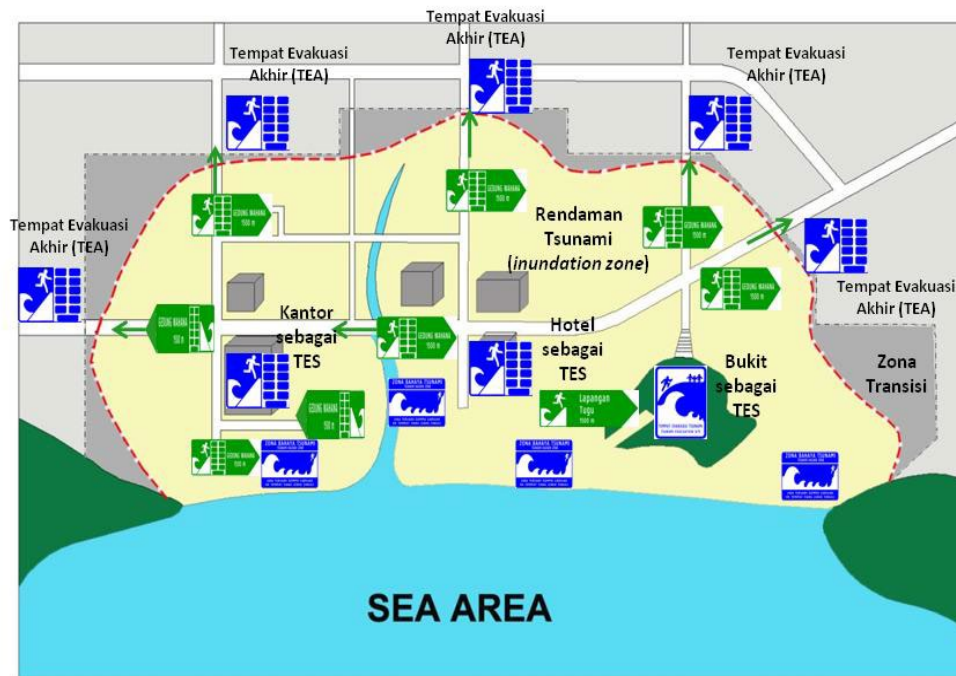
Communities can work together with various parties to produce educational and awareness materials about the tsunami hazard in their area



Tsunami Hazard Zone Sign in Kemadang, Yogyakarta, Indonesia

Location of the Signage

The number and location of tsunami signs must be adapted to tsunami-prone areas



Map of Installation of Tsunami Evacuation Signs in Tanjung Benoa Village 1 June 2022

Type of Signages



Entering/Leaving
Tsunami Hazard Zone



“You are in Tsunami Hazard Zone”

Type of Signages



Evacuation Signage for
Pedestrian → Urban Area



Evacuation by car/motorcycle
→ for Rural Area

Type of Signages



Temporary Evacuation
(the Building)



Final Tsunami
Evacuation Shelter



Tsunami Designated Area

Other Examples

USA, Puerto Rico, New Zealand and Indonesia



Source. ITIC Website

Thank you



***IOC/UNESCO Indian Ocean Tsunami Information Centre
IOTIC-BMKG Programme Office***

***Disaster Risk Reduction and Tsunami Information Unit
UNESCO Jakarta Office***

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