

Commission



Implementing Tsunami Ready in the Indian Ocean

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(Tsunami Ready Implementation)/
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Launch of Project Phase 2c:

"Strengthening tsunami early warning in the North-West Indian Ocean region through regional cooperation"
Wednesday, 15 November 2023

Tsunami Ready and UN Ocean Decade

Implementation Plan for the UN Decade Tsunami Programme (TOWS WG 2021)

Contribute to achieving the societal outcome of A Safe Ocean with the aim of making 100% of communities at risk of tsunami prepared for and resilient to tsunamis by 2030 through the implementation of the UNESCO/IOC Tsunami Ready Programme

Tsunami Ready in Indian Ocean

The ICG/IOTWMS encourages member states to commit to implement the UNESCO-IOC Tsunami Ready guideline and indicators and promote open access to high-resolution near shore bathymetry and topography data for accurate inundation and evacuation mapping in support of Tsunami Ready communities (ICG/IOTWMS Chair at the 53rd IOC EC)

UNESCO/IOC Tsunami Ready Recognition Programme / UNESCO/IOC Tsunami Ready (TOWS WG 2022)

- Recommended that the IOC Executive Council at its 55th session consider approving the establishment of the UNESCO/IOC Tsunami Ready Recognition Programme (UNESCO/IOC Tsunami Ready)
- To advise countries that are currently in the process of implementing Tsunami Ready, to now follow the MG74 when submitting/applying for Tsunami Recognition, and that MG74 will apply for all future applications.
- Establishment of the Tsunami Ready Coalition.
- ICG Tsunami Information Centres (TICs) to facilitate the UNESCO/IOC Tsunami Ready Recognition Programme in each region.



Not oceans and shores that do not have coastal hazards (i.e- Tsunami).

..... is coastal area and ocean that is understood, observed, can be predicted, and where the people can continue to interact with the sea and oceans for their livelihood and lifestyle without having the fear of coastal hazards (tsunamis), as they already have the awareness, knowledge, preparedness, skills, and abilities to safe themselves in case of an emergency (tsunami)







The UNESCO-IOC Tsunami Ready Recognition Programme

- Tsunami Ready Recognition Programme is a community performance-based programme that facilitates tsunami preparedness as an active collaboration of the community, community leaders, and national and local emergency management agencies.
- The main goal of the programme is to improve coastal community preparedness for tsunami emergencies, to minimise the loss of life, livelihoods and property, and to ensure a structural and systematic approach in building community preparedness.

• STRATEGY:

Be Aware, Be Prepared

ACTION:

National programmes empower communities





Why Tsunami Ready?

 An advance tsunami early warning system will not safe life if the community at risk does not have the knowledge and capacity to respond to the early warning.



- In near field tsunami, the community need to react and take action without official warning or guidance
- Weak or broken warning chain to community.
- Lack or limited focus in community preparedness for tsunami.



The Aims of IOC-UNESCO Tsunami Ready Recognition Program



The Tsunami Ready Recognition Programme is a voluntary international community-based recognition programme developed by UNESCO/IOC.

It aims to build resilient communities through awareness and preparedness strategies that will protect life, livelihoods and property from tsunamis in different regions



Tsunami Ready Community Recognition: 43 Communities

Caribbean (11 communities)

- 1. St. Kitts and Nevis(1)
- 2. Anguilla (1)
- 3. British Virgin Islands (1)
- 4. Grenada (2)
- 5. Haiti (1)
- 6. Antigùá and Barbuda (1)
- 7. Barbados (1)
- 8. St. Vincent and the Grenadines (1)
- 9. Trinidad and Tobago (1)
- 10. Jamaica (1)

Pacific (21 communities) Pacific (21 communities)

- 1. Honduras (3)
- 2. Costa Rica (11)
- 3. Samoa (1)
- 4. El Salvador (2)
- 5. Guatemala (̀2)́
- 6. Nicaragua (2)

- 1. Venkatraipur India
- 2. Noliasahi, India
- 3. Tanjung Benoa, Indonesia
- 4. Tambakrejo, Indonesia
- 5. Panggarangan, Indonesia
- 6. Glagah, Indonesia

- 7. Kemadang, Indonesia
- 8. Pangandaran Indonesia,
- . Mandalika, Indonesia
- 10. Purus, Indonesia
- 11. Lolong Belanti, Indonesia



UNESCO/IOC Tsunami Ready Indicators

TSUNAMI READY INDICATORS

I ASSESSMENT (ASSESS)

- 1 ASSESS-1. Tsunami hazard zones are mapped and designated
- 2 **ASSESS-2**. The number of people at risk in the tsunami hazard zone is estimated
- 3 ASSESS-3. Economic, infrastructural, political, and social resources are identified

II PREPAREDNESS (PREP)

- 4 PREP-1. Easily understood tsunami evacuation maps are approved.
- 5 PREP-2. Tsunami information including signage is publicly displayed.
- 6 **PREP-3**. Outreach and public awareness and education resources are available and distributed.
- 7 **PREP-4**. Outreach or educational activities are held at least 3 times a year.
- 8 **PREP-5**: A community tsunami exercise is conducted at least every two years

III RESPONSE (RESP)

- 9 **RESP-1**. A community tsunami emergency response plan is approved.
- 10 **RESP-2**. The capacity to manage emergency response operations during a tsunami is in place.
- 11 **RESP-3**. Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place.

RESP-4. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place.

Understanding the Hazard and Risk

Community Awareness

Planning and Capacity



What is community?

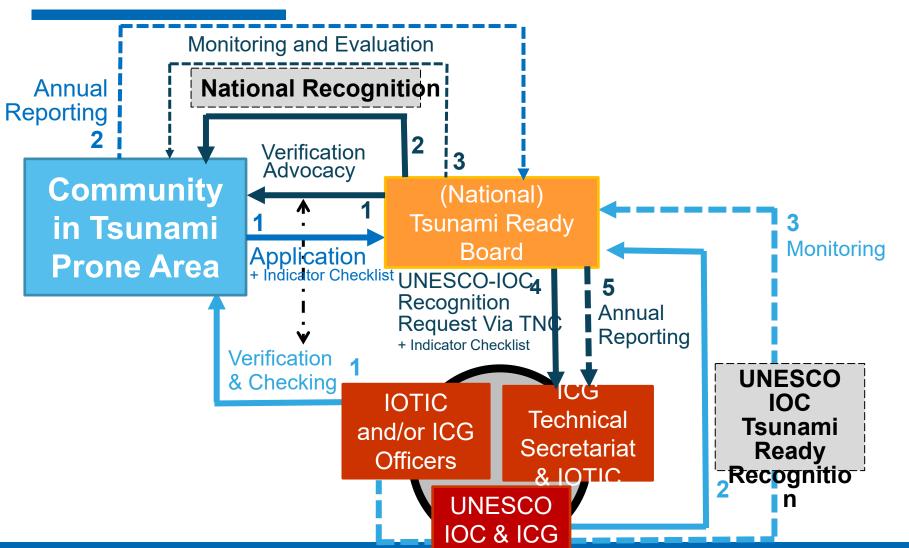
- A community is a group of people who live in the same area (city, town, village, neighbourhood), includes its social and economic dimensions, its infrastructure, life-lines and supporting environmental systems.
- Scale of community is important.
 Its size (area, population), national governance structure, as well as its vulnerability, exposure, resources and capacity required, will determine how Tsunami Ready in implemented.







Tsunami Ready Recognition Process



IOTWMS











Why apply for Tsunami Ready recognition?

- To recognizes the effort and achievements of the community
- 2. To motivate the community to continue to improve its level of preparedness
- 3. To enhance the sustainability of preparedness in the community
- 4. To motivate others to follow the example of good practices







The Benefit of Tsunami Ready Recognition

- ☐ Strengthens tsunami preparedness of coastal communities
 - -Improved assessments of Hazards, Risk, Inundation, and Evacuation
 - -Improved early warning systems/warning chain, EOP, and EOC
 - -Improved/Increases public awareness, understanding of tsunami threat, build preparedness, and ensures exercises.
- ☐ Strengthen preparedness for other hazards
- ☐ Encourages a consistent and sustainable approach
- ☐ Contributes to the UN Decade Program
- □ Received Recognition from IOC UNESCO as Tsunami Ready Community



Tsunami Ready Recognition in the Indian Ocean



- ✓ 11 communities now Tsunami Ready recognized
- ✓ Australia, Iran, Maldives,
 Oman, Pakistan, Seychelles,
 Sri Lanka, Thailand, and
 Timor Leste planning to
 implement
- ✓ More support required reach Ocean Decade Goal 100% communities at risk Tsunami Ready







Tsunami Ready for critical infrastructure







Implementing Tsunami Ready to the Critical Infrastructures









✓ Tsunami Ready for critical infrastructure eg Airport Tsunami Ready in Indonesia, port, and industrial zones







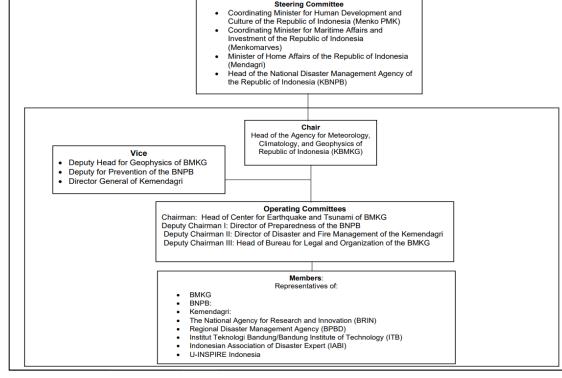
National Tsunami Ready Board

- 1. Coordinating the implementation of the Tsunami Ready Community through advocacy, promotion, and socialization
- 2. Ensuring consistency in the implementation of guidelines and UNESCO-IOC Tsunami Ready indicator
- 3. Checking and providing direction on assessments Tsunami Ready Community on the national level for the proposed coastal communities prone to tsunami;
- 4. Review, evaluate, and approve requests Tsunami Ready Community Recognition at the national level in accordance with UNESCO-IOC Tsunami Ready guide and indicators
- Monitor, collect reports, and evaluate Tsunami Ready Community which has received recognition annually;
- 6. Recommend the Tsunami Ready Community to gain UNESCO-IOC Tsunami Ready Recognition,
- Monitor and report on annual activities Tsunami Ready Community which has been recognized as UNESCO-IOC Tsunami Ready Community to ICG/IOTWMS;









Indonesian NTRB

National Board to implement and the monitor Tsunami Ready Recognition programme and IOWave18 exercises in India

1	Director, INCOIS	Chairman
2	Representative from NDMA	Member
3	Representative from MHA	Member
4	Representative from MoES	Member
5	Representative from DMO,	Member
	Andaman & Nicobar Islands	
6	Representative from DMO, Odisha	Member
7	Head-TWG, INCOIS	Member
		Secretary
	Indian NTRB	

Champions of the Tsunami Ready





Abah Anis and Patra Rina Dewi, the champions of Tsunami Ready Community in Indonesia



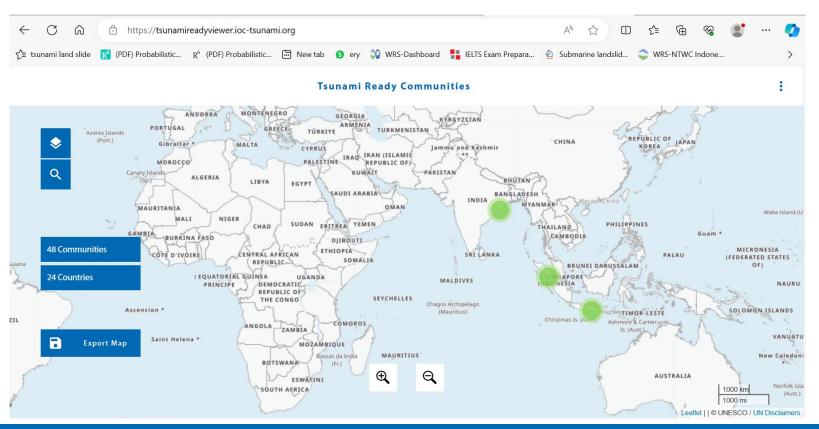




UNESCO/IOC Tsunami Ready Tools

UNESCO/IOC Tsunami Ready Viewer

Showing UNESCO/IOC Tsunami Ready Recognized Community Globally





https://tsunamireadyviewer.ioc-tsunami.org/

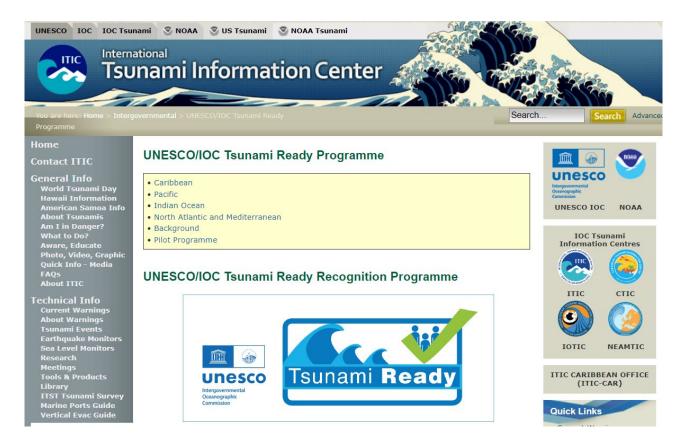






UNESCO/IOC Tsunami Ready Tools

UNESCO/IOC Tsunami Ready Website



http://itic.ioc-unesco.org/index.php?option=com content&view=category&id=2234&Itemid=2758







UNESCO/IOC Tsunami Ready Tools

Manual and Guide No 74

Intergovernmental Oceanographic Commission



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Standard Guidelines for the Tsunami Ready Recognition Programme

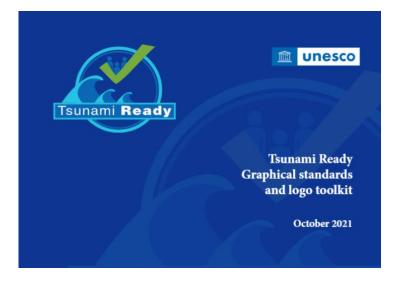
UNESCO

https://oceanexpert.org/downloadFile/50068

Manual and Guide No 82



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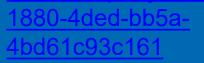
Use of the Tsunami Ready logo would need to request the approval from UNESCO/IOC Tsunami Unit. Please contact: ioc-tsu@unesco.org for permission.

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THANK YOU

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