



Oceanographic

Commission

UNESCO-IOC Tsunami Ready Recognition Programme In Indian Ocean

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UNESCO/IOC Tsunami Ready and the Global Frameworks





SAFE OCEAN

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

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)







Sustainable
Development
Goals
2015-2030



UN Decade of Ocean Science for Sustainable Development 2021-2030



Sendai Framework for DRR 2015 - 2030



World Tsunami Awareness Day







Tsunami Ready and UN Ocean Decade



Statement and decision on Tsunami Ready

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.







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.

> High risk of loss of life and property in coastal community with weak or no community preparedness for tsunami emergencies.

- 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.









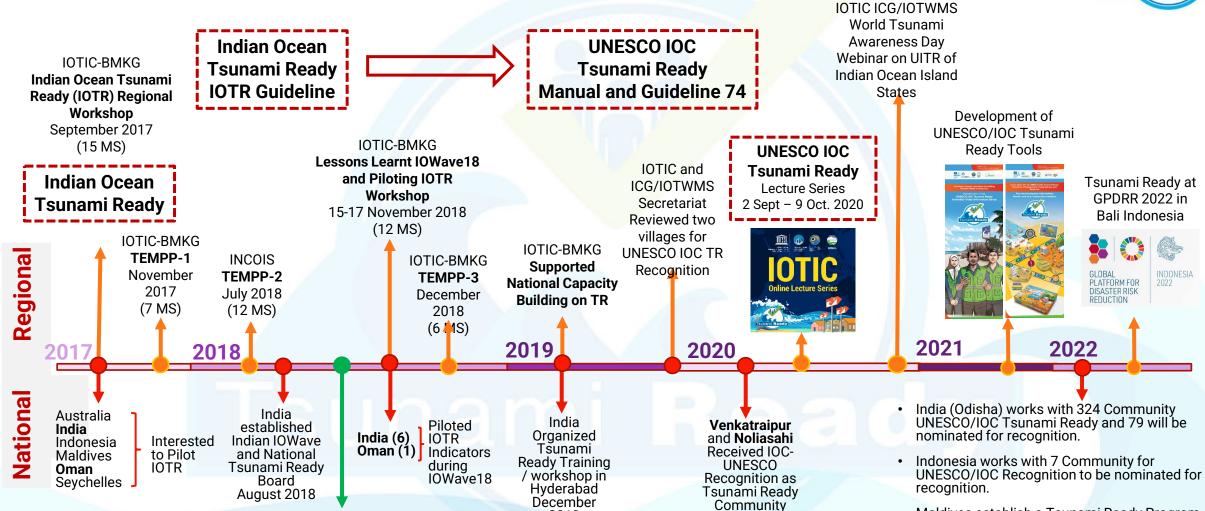
IOTIC-BMKG Tsunami Ready Programme

IOWave18

Exercise 11 Indian Ocean Member States involved

Communities





2019



· Maldives establish a Tsunami Ready Program

at NDMA



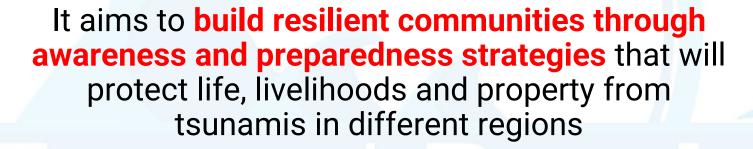


IOC-UNESCO Tsunami Ready Recognition Programme





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





Caribbean

- St. Kitts and Nevis
- Anguilla
- British Virgin Islands
- Grenada
- Haiti
- Antigua and Barbuda
- Barbados
- St. Vincent and the Grenadines
- Trinidad and Tobago
- Honduras
- Nicaragua

Pacific

- Honduras
- Costa Rica
- Samoa
- El Salvador

Indian Ocean

- Venkatraipur and Noliasahi, Bali
- Tanjung Benoa, Indonesia







IOC-UNESCO Tsunami Ready Recognition Programme





→ Process and Capacity → to meet 12 key indicators that serve as the standard for reducing tsunami risk at the community level.

A strong end-to-end tsunami early warning and mitigation system with a particular focus on community awareness and preparedness.

Facilitates tsunami preparedness as an active collaboration of the public (community), community leaders, local and national emergency management agencies.









IOC UNESCO Tsunami Ready Approach



- Bringing the ownership of preparedness to the community -> Voluntary and Bottom Up.
- To ensures structural and systematic approach in building community preparedness
- A collaborative effort to meet a level of tsunami preparedness through the achievement of fulfilling a set of established best practice guidelines and indicators.



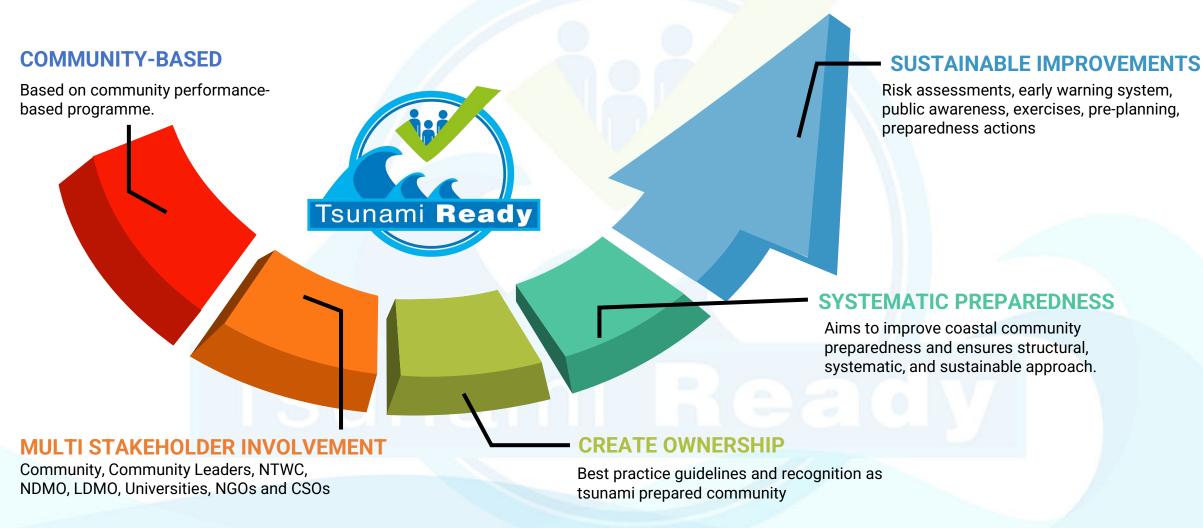






IOC-UNESCO Tsunami Ready Recognition Programme











Benefit of Tsunami Ready Program



- 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
- Improves community pre-planning
- Encourages a consistent and sustainable approach
- Contributes to the aims of the SFDRR and SDGs
- Received Recognition from IOC UNESCO as Tsunami Ready Community







Tsunami Ready "Community"

Tsunami Ready

Community → an ecosystem of society









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



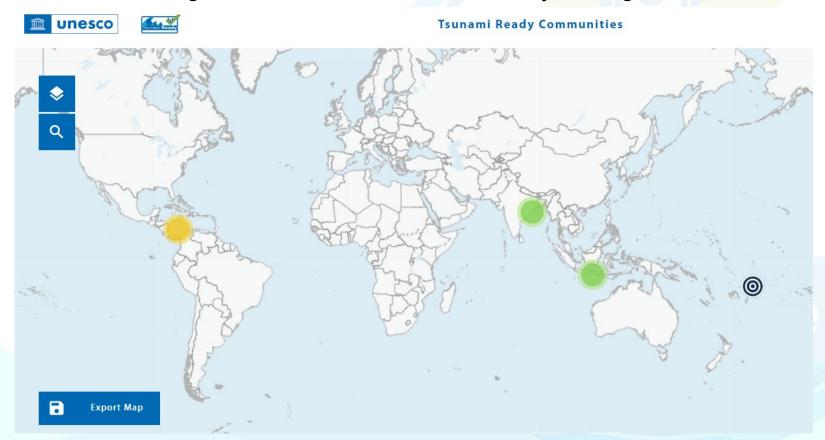




Tsunami Ready

UNESCO/IOC Tsunami Ready Viewer

Showing UNESCO/IOC Tsunami Ready Recognized Community Globally





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

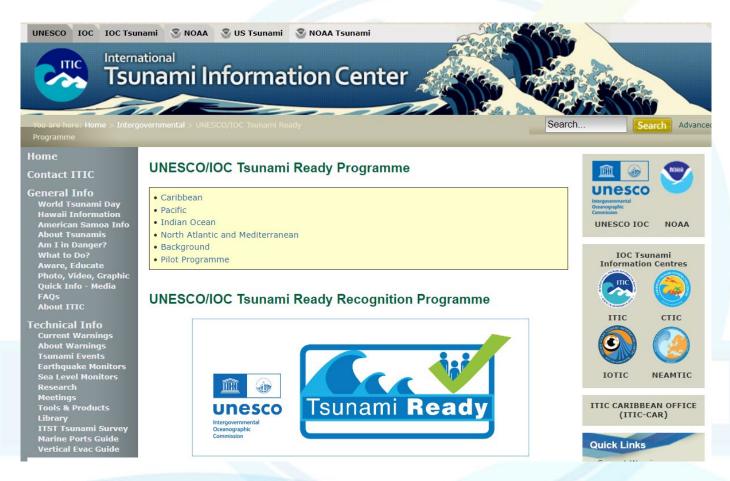






UNESCO/IOC Tsunami Ready Website





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









Manual and Guide No 74

Intergovernmental Oceanographic Commission
Manuals and Guides



74

Standard Guidelines for the Tsunami Ready Recognition Programme

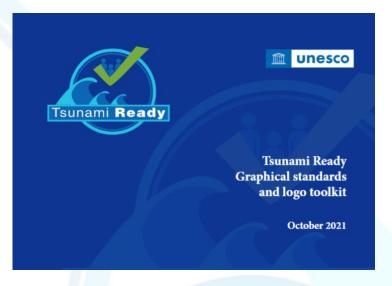
UNESCO

https://oceanexpert.org/downloadFile/50068

Manual and Guide No 82



https://unesdoc.unesco.org/ ark:/48223/pf0000373019?po sInSet=17&queryId=947ca61 1-1880-4ded-bb5a-4bd61c93c161



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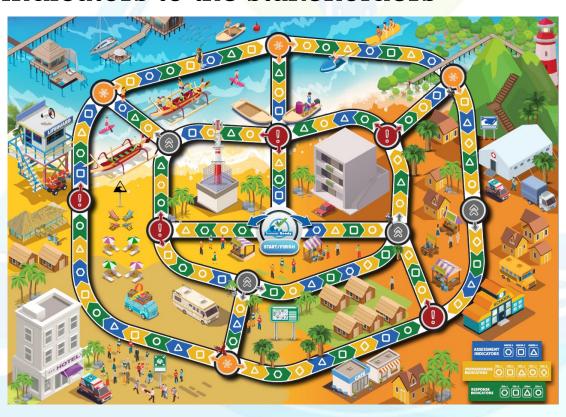


Tsunami Ready

Tsunami Ready Boardgame



To introduce the 12 Tsunami Ready Indicators to the stakeholders



(12 + years)





Cards 375 (\pm 300 questions, 75 instructions)

- Assessment: 3 Indicators x 25 question cards
- Preparedness: 5 Indicators x 25 question cards
- Response: 4 Indicators x 25 question cards
- Threat Cards: 25 Cards
- Opportunity Cards: 25 Cards
- Capacity Building Cards: 25 Cards

Could be played in different levels

- 1. Beginner (+ l hour)
- 2. Middle (± 2 hours)
- 3. Advanced (≥ 2 hours)

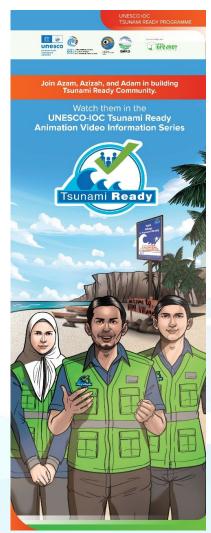






Tsunami Ready

Tsunami Ready Short Animation Video Series



Story line:

Following the journey of Azam, Azizah, and Adam in building their Village "Nami" to be a Tsunami Ready Community based on UNESCO-IOC Tsunami





- Video 1: Tsunami Ready (an introduction) + 7:10 minutes
- Video 2: Tsunami Hazard for Tsunami Ready Community + 8:02 minutes
- Video 3: Knowing people at risk of tsunami + 4:48 minutes
- Video 4: Resource and capacity for Tsunami Ready Community + 6:57 minutes
- Video 5: Public Tsunami Information in Community + 5:32 minutes
- Video 6: Tsunami Evacuation Map for the community + 5:15 minutes
- Video 7: Public Awareness and Education Resources + 5:07 minutes
- Video 8: Outreach Activities in Tsunami Ready Community + 4:39 minutes
- Video 9: Community Tsunami Exercise + 6:49 minutes
- Video 10: Community Tsunami Emergency Operation Plan + 5:28 minutes
- Video 11: Building Capacity in community for Emergency Response + 7:50 minutes
- Video 12: Linking the Community to the Tsunami Warning Chain + 4:40 minutes
- Video 13: Providing warning to the community + 5:27 minutes
- Video 14: Getting Tsunami Ready Recognition <u>+</u> 6:50 minutes

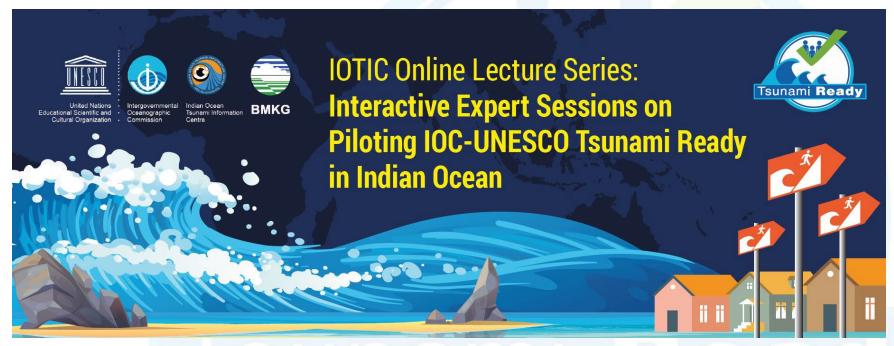






Tsunami Ready

Tsunami Ready Online Lecture Series Recording



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