



What is UNESCO IOC Tsunami Ready Recognition Programme

2.1 Framework, Background, and History

Ardito M Kodijat Indian Ocean Tsunami Information Centre - IOC UNESCO

Tsunami Ready In UN Ocean Decade of Ocean Science for Sustainable Development



The Ocean We Need for the Future We Want



Societal Outcomes

Unesco
Intergovernmental
Oceanographic
Commission

- A Clean Ocean
- A Healthy and Resilient Ocean
- A Productive Ocean
- A Predicted Ocean

A Safe Ocean

- An Accessible Ocean
- An Inspiring and Engaging Ocean

Enhance multi-hazard early warning services for all geophysical, ecological, biological, weather, climate and anthropogenic related ocean and coastal hazards, and mainstream community preparedness and resilience.





SAFE

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)







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





OCEAN DECADE TSUNAMI PROGRAMME

Seeking Major Advances in SCIENCE and PREPAREDNESS

observational and analysis technologies to move from a high-uncertainty assumption-based capability to a low-uncertainty dynamic-based capability

RESILIENCE!

Communities respond to tsunami threats by combining accurate

1. Real-time impact forecasts
with

2. Deep community preparedness.

Tsunami disaster impacts are minimized, enabling rapid restoration of critical infrastructure and services

Comprehensive institutional & community preparedness and capacity building efforts aimed at achieving

IOC Tsunami Ready

designation across all socio-economic categories





OCEAN DECADE TSUNAMI PROGRAMME
Seeking Major Advances in SCIENCE and PREPAREDNESS

THE MAIN SOCIAL OUTCOME

TO MAKE 100%

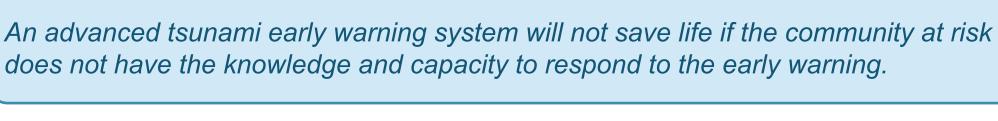
OF COMMUNITIES AT RISK OF TSUNAMI PREPARED FOR AND RESILIENT TO TSUNAMIS

2030

Why do you need Tsunami Ready?



does not have the knowledge and capacity to respond to the early warning.





There is a high risk of loss of life and property in coastal communities with weak or no community preparedness for tsunami emergencies

In near-field* tsunami situations, the community needs to react and take action without official warning or guidance

If the warning chain to the community is weak or broken, the community must be prepared to take action on its own initiative

Lack of or limited focus on community preparedness leaves a community more at risk during a tsunami event

* When a tsunami arrives in less than 1 hour from its source. Usually within a 100 – 200km range of the epicentre

History of Tsunami Ready





US TsunamiReady® (2001, US NWS, NTHMP)

- Guidelines for standard level of capability to mitigate, prepare for, and respond to tsunamis.
- Promote community preparedness minimize risk through better risk assessment, planning, education, warning communications
- 16 states, territories, 195 recognized Communities, 14 Supporters (1 Aug 2019). Local, tribal govt, or facility with authority to implement



- UNESCO IOC Tsunami Ready (2016, UNESCO IOC TOWS-IX)
 - Modelled after US TsunamiReady[®]
 - Tsunami Ready Programme Guidelines (community performance-based recognition, not certification) available for use / adaption by ICG regions (e.g., Pacific) (adopted by ICG/CARIBE-EWS-X, May 2015)
 - Global priority to increase focus on awareness in communities and among authorities through communication, exercises, training, information, preparedness and recognition programmes

History of the Implementation of Tsunami Ready



US National Weather
Service of NOAA
implemented the
recognition programme
TsunamiReadv

TsunamiReady®

2001

IOC Assembly approved UNESCO/IOC Tsunami Ready Recognition Pilot Programme

2015

The IOC Assembly
approved the
establishment of the IOC
Ocean Decade Tsunami
Programme including
Tsunami Ready

2021



Intergovernmental Oceanographic Commission

100% At-Risk Communities Tsunami Ready

2030

2011

US NWS provided initial funding to support the joint NWS and UNESCO/IOC TsunamiReady pilot project in the Caribbean and the international community

2017



2021 United Nations Decade of Ocean Science for Sustainable Developm

United Nations declared the Decade of Ocean Science for Sustainable Development would be held from 2021 to 2030 2022

Establishment of the UNESCO/IOC Tsunami Ready Recognition Programme



Benefits of Tsunami Ready Programme



- 1. Strengthens tsunami preparedness of coastal communities
 - Improved assessments of Hazards, Risk, Inundation, and Evacuation
 - Improved early warning systems/warning chain
 - Improved public awareness, understanding of tsunami threat and preparedness
 - Tests awareness and preparedness through regular exercises
- 2. Strengthens preparedness for other hazards
- 3. Improves community planning
- 4. Encourages a consistent and sustainable approach to disaster risk reduction
- 5. Contributes to the aims of the Sendai Framework for Disaster Risk Reduction and Sustainable Development Goals
- 6. International recognition from UNESCO IOC as Tsunami Ready Community

UNESCO IOC Tsunami Ready Approach



Bring the ownership of preparedness to the community

Ensure structural and systematic approach in building community preparedness

A collaborative effort to achieve a level of tsunami preparedness through the fulfilment of a set of established best practice guideline and indicators

Tsunami Ready is implemented on a voluntary basis and entails a "bottom-up" process with the community taking the initiative to build its own capacity. This approach ensures ownership of the process that strengthens its sustainability



Tsunami Ready Indicators





Tsunami Ready consists of 12 key indicators designed to strengthen local tsunami risk reduction capacity. The indicators are grouped into three categories:

Assessment, Preparedness and Response

ASSESSMENT (ASSESS)

- 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

PREPAREDNESS (PREP)

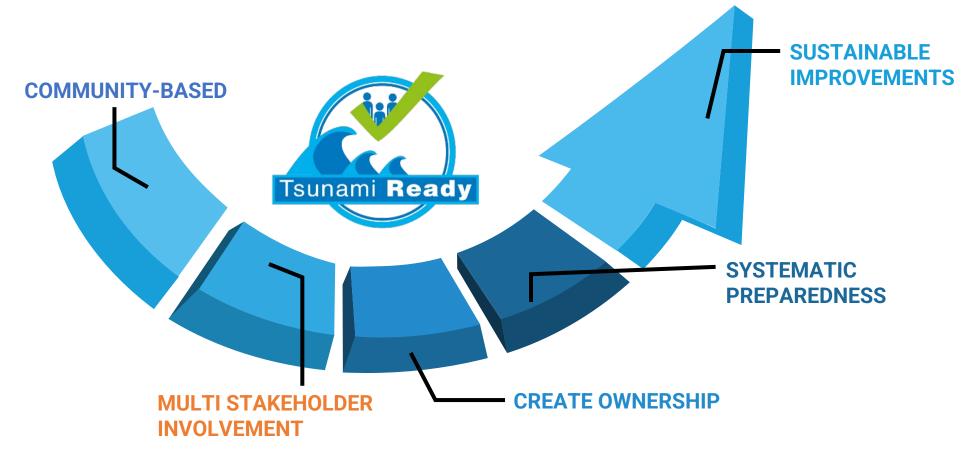
- PREP-1. Easily understood tsunami evacuation maps are approved
- PREP-2. Tsunami information including signage is publicly displayed
- 6 PREP-3. Outreach and public awareness and education resources are available and distributed
- PREP-4. Outreach or educational activities are held at least 3 times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

RESPONSE (RESP)

- 9 RESP-1. A community tsunami emergency operations plan is approved
- RESP-2. The capacity to manage emergency response operations during a tsunami is in place
- RESP-3. Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place
- 12 RESP-4. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place

Summary





Tsunami Ready Disclaimer



A Tsunami Ready recognition does not imply approval or promise that a community can or will perform at a certain level in case of a tsunami. Tsunami Ready recognition does not mean that a community is tsunami proof; it is rather an acknowledgment and recognition of the measures adopted by the community to cope with their tsunami risk

Vinaka Vaka Levu

For more information: web: tsunamiready.org

Ardito Kodijat a.kodijat@unesco.org

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







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UNESCO IOC Tsunami Ready Recognition Programme



Tsunami Ready is a community performance-based programme that facilitates tsunami preparedness as an active collaboration of the public (community), community leaders, and national and local emergency management agencies

The main objective 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 apply for Tsunami Ready recognition?

- 1. To appreciate 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. As leverage to for improvement and collaboration
- 5. To motivate others to follow the example of good practices





Certificate of Recognition The Community of Venkatraipur

Ganjam District, Odisha, India

For successfully piloting the UNESCO-IOC Tsunami Ready Initiative in Venkatraipur, Ganjam District, India





Benefits of UNESCO IOC Tsunami Ready Recognition



- 1. Prestige, as a community that has set good example of best practices and is internationally recognized as Tsunami Ready
- 2. Included in the Global Map of Tsunami Ready Communities
- 3. Potential economic benefits, in terms of increased investment and tourism

