



unesco

Intergovernmental
Oceanographic
Commission

ICG/PTWS-XXIX
1, 2, 7, 8 December 2021
Virtual

Agenda 4.1

UNESCO IOC TSUNAMI READY

Dr. Laura Kong
Director, ITIC



UNESCO/IOC-NOAA SHOA
International Tsunami Information Center





2021
2030
United Nations Decade
of Ocean Science
for Sustainable Development



unesco
Intergovernmental
Oceanographic
Commission

OCEAN DECADE TSUNAMI PROGRAMME

Seeking Major Advances in SCIENCE and PREPAREDNESS

New 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





2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development



unesco

Intergovernmental
Oceanographic
Commission

OCEAN DECADE TSUNAMI PROGRAMME

A SAFE OCEAN

THE MAIN SOCIETAL OUTCOME

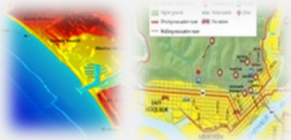
TO MAKE
100%

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

BY
2030

- **Tsunami Coalition:** *collaborative with critical UN stakeholders, civil protection, others* ==> *Raise profile. Facilitate resourcing*
- **Capacity Development:** *augmented through IOC Ocean Teacher Global Academy (OTGA)* ==> *Global reach, essential curricula*

100% AT-RISK COMMUNITIES 'TSUNAMI READY'



UNESCO IOC TSUNAMI READY INDICATORS

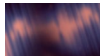
I ASSESSMENT (ASSESS)	
1	ASSESS-1. Tsunami hazard zones are mapped and designated
2	ASSESS-2. The number of people at risk in the tsunami hazard zone is estimated
3	ASSESS-3. Economic, infrastructural, political, and social resources are identified
II PREPAREDNESS (PREP)	
4	PREP-1. Easily understood tsunami evacuation maps are approved
5	PREP-2. Tsunami information is publicly displayed
6	PREP-2. Outreach and public awareness and education resources are available and distributed
7	PREP-3. Outreach or educational activities <u>are held at least three times a year</u>
8	PREP-4. A community tsunami exercise is conducted at least every two years
III RESPONSE (RESP)	
9	RESP-1. A community tsunami emergency response plan (ERP) 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
12	RESP-4. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place

- ❑ **STRATEGY:**
Be Aware, Be Prepared
- ❑ **FRAMEWORK:**
 - Harmonized global guidelines UNESCO IOC Tsunami Ready
 - Performance-based Community Recognition
- ❑ **ACTION:**
National programs empower Communities
- ❑ **GLOBAL MEASURE**

Be Safe. Be Prepared. Get Tsunami Ready!

- ❑ Pacific Tsunami Ready shout-outs
- ❑ 36 contributions (some multiple): 26 countries, 4 orgs
- ❑ Informal, fun, creative !
 - ❑ [Eastern Pacific \(Central and South America\)](https://vimeo.com/642908499)
 - ❑ [Pacific Islands](https://vimeo.com/641742226) (Pacific Island Countries and Territories)
 - ❑ [Western Pacific](https://vimeo.com/642563612) (NW Pacific, SCS, SE Asia)

Click for video



TOWS-WG: Tsunami Community Preparedness

- **Decides: ‘A Safe Ocean’ societal outcome’**
aim to make 100% of communities at risk of tsunami prepared for and resilient to tsunamis by 2030 through UNESCO/IOC Tsunami Ready Programme and other initiatives
 - **Adopt** UNESCO-IOC Tsunami Ready Guidelines / Indicators (TS 74) as international std for evidence-based community preparedness
 - **Enhance access and capacity development** (high-res DEM, tsunami sources) for inundation modelling / evac mapping
 - **Enhance integration** to minimize disaster impacts. **Rapid restoration of socio-economic activities and critical infrastructure services**

- **Encourages**
 - **Use best practices in engineering** design and construction of evacuation shelters, especially against local tsunamis
 - **Use IOTIC-compiled School Disaster Risk Reduction** / preparedness materials

TOWS-WG: Instructs ICGs

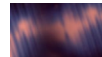
- i. Continue IOC – UNDRR World Tsunami Awareness Day strong collaboration for (2020 / 2021 WTAD - 30 videos highlighting countries joining global Tsunami Ready community)
- ii. Urgently complete IOC Technical Series 74 Tsunami Ready recognition programme indicators / guidelines for widespread distr
- iii. Include Local Tsunami Source SOPs as an important component of Tsunami Ready programme;
- iv. Develop standardized trainings (online or in person) in particular through Ocean Teacher Global Academy (OTGA);
- v. For next Tsunami Symposium, incorporate diversity in organizing committee (incl all regions); venue for hybrid meeting to enable most people to successfully engage, explore funding

Be Safe. Be Prepared. Get Tsunami Ready!

- ❑ Pacific Tsunami Ready shout-outs
- ❑ 36 contributions (some multiple): 26 countries, 4 orgs
- ❑ Informal, fun, creative !
 - ❑ Eastern Pacific (Central and South America) <https://vimeo.com/642908499>
 - ❑ Pacific Islands (**Pacific Island Countries and Territories**) <https://vimeo.com/641742226>
 - ❑ Western Pacific (NW Pacific, SCS, SE Asia) <https://vimeo.com/642563612>



Click for video



Milestones

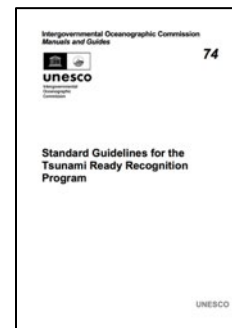
- **Adopt** UNESCO-IOC Tsunami Ready Guidelines / Indicators (TS 74) as international standard for evidence-based community preparedness → Global measure
- **Establish Tsunami Ready Programme**
Process
 1. PTWS recommendation (Dec 2021, this meeting)
 2. TOWS WG approval on TT Disaster Management and Preparedness recommendation (Feb 2022)
 3. IOC Executive Council approval (June 2022)
- **Deploy Tsunami Ready Programme**

HOW TO GET TSUNAMI READY !



- ❑ **Standard Guidelines for the Tsunami Ready Recognition Program**
(IOC Technical Series 74, draft 2021)
- ❑ **Facilitated by IOC Tsunami Information Centres.**
Contact International Tsunami Information Center
(ITIC, itic.tsunami@noaa.gov)
- ❑ **Tsunami Ready web site – information, resources**
www.tsunamiready.org

Be Safe. Be Prepared. Get Pacific Tsunami Ready!
LINKS: [Pacific Islands](#) [Western Pacific](#) [Eastern Pacific](#)



The screenshot shows the UNESCO IOC Tsunami Ready website. At the top, there are navigation links for UNESCO, IOC, IOC Tsunami, NOAA, US Tsunami, and NOAA Tsunami. The main header features the ITIC logo and the text 'International Tsunami Information Center'. Below this, there is a search bar and a 'Home' button. A 'Contact ITIC' section lists various services like 'General Info', 'World Tsunami Day', and 'News'. A 'Tsunami Ready' section highlights 'UNESCO IOC Tsunami Ready Pilot Programme' and includes a 'TSUNAMI READY' logo with the text 'ENTRANDO en COMUNIDAD'. The main content area contains introductory text about the program's goals and a 'BACKGROUND' section.

PTWS-XXIX ACTIONS

- 1. Reference: Standard Guidelines for the Tsunami Ready Recognition Programme (MG 74) – publish 2021**
 - Frameworks & agreements (DRM, TEWS, Sendai DRR, SDG), Background, TR (Aim, Conditions, Indicators, Implementation Workflow - Steps / Application, Signs, Certificates), Glossary, Tools & References
- 2. Ensure TR aligned with other PTWS and IOC documents**
 - PTWS Medium Term Strategy 2022-2030
 - PTWS Key Performance Indicators (KPI) – still evolving
 - IOC MTS 2022-2029, Capacity Development Strategy 2015-2023
- 3. Endorse establishment of TR Programme (from Pilot)**
- 4. Enable PTWS Support - Resources – People, Tools, Funding**
 - Advocacy (high-level political, community, champions)
 - Inter-ICG sharing (PTWS-CARIBE-EWS, PTWS-IOTWMS, SIDS)
 - Enhanced access for DEM, Identified Tsunami Source (expert meetings)
 - Regional resource hubs (technical for DEM, modeling, GIS)

Be Safe. Be Prepared. Get Tsunami Ready!

- ❑ Pacific Tsunami Ready shout-outs
- ❑ 36 contributions (some multiple): 26 countries, 4 orgs
- ❑ Informal, fun, creative !
 - ❑ Eastern Pacific (Central and South America) <https://vimeo.com/642908499>
 - ❑ Pacific Islands (Pacific Island Countries and Territories) <https://vimeo.com/641742226>
 - ❑ Western Pacific (NW Pacific, SCS, SE Asia) <https://vimeo.com/642563612>



Click for video





unesco

Intergovernmental
Oceanographic
Commission

ICG/PTWS-XXIX
1, 2, 7, 8 December 2021
Virtual

Thank You

Dr. Laura Kong
Director, ITIC



UNESCO/IOC-NOAA SHOA
International Tsunami Information Center

