



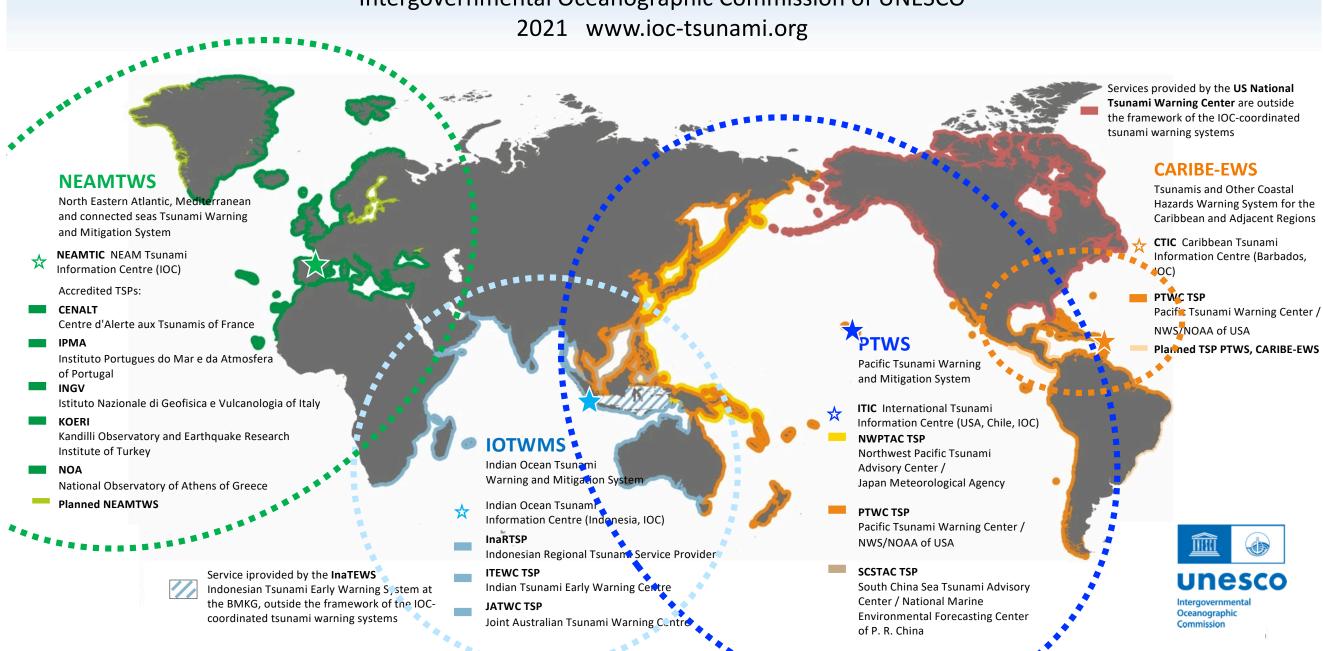
UNESCO/IOC Tsunami Ready Recognition Programme

Progress and Next Steps

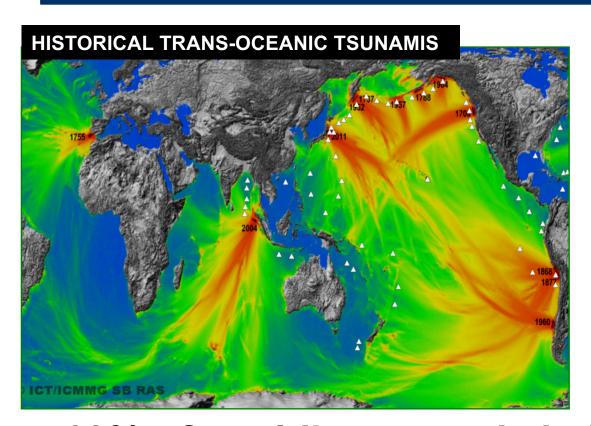
Dr. Laura Kong International Tsunami Information Centre (ITIC)

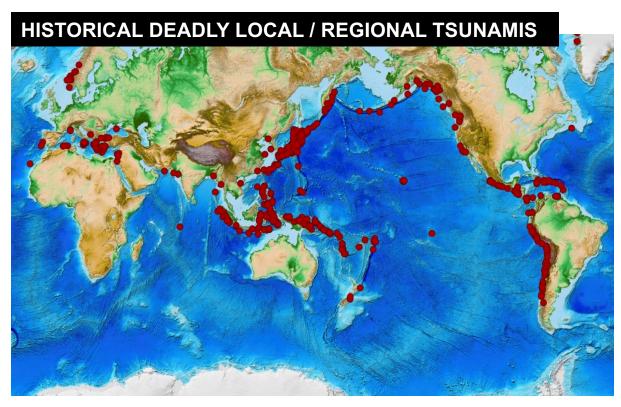
GLOBAL TSUNAMI WARNING AND MITIGATION SYSTEMS

Intergovernmental Oceanographic Commission of UNESCO



PACIFIC TSUNAMIS





- 69% of world's tsunamis in Pacific and marginal seas
- 99% of deaths in Pacific from Local or Regional Tsunamis (90% globally)





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

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, deep curricula

UN OCEAN DECADE TSUNAMI PROGRAMME:

100% AT-RISK COMMUNITIES TSUNAMI READY





	TSUNAMI READY INDICATORS			
1	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.			
Ш	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.			
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-basedCommunity Recognition
- ACTION:National programsempower Communities
- GLOBAL MEASURE





How to get Tsunami Ready

Intergovernmental Oceanographic Commission Manuals and Guides



Tsunami Rec

 Standard Guidelines for the Tsunami Ready Recognition Program (IOC Technical Series 74, 2022)

Standard Guidelines for the Tsunami Ready Recognition Programme

UNESC

□ Facilitated by IOC Tsunami Information Centres Contact International Tsunami Information Centre (ITIC, itic@unesco.org,laura.kong@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



Click below for video PICT



PICT Regional Training on the UNESCO/IOC Tsunami Ready Recognition Programme - 30 January - 01 February 2023

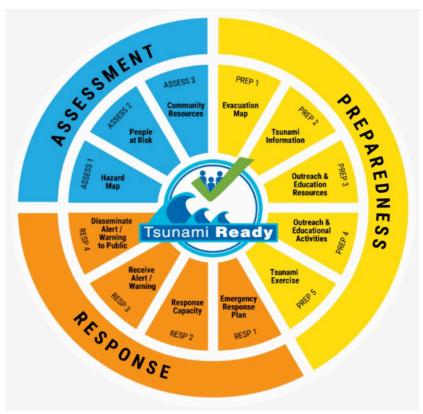
- 11 PICT 40+ participants
- Trainers ITIC, IOTIC, SPC, NOAA

Introduce UNESCO IOC Tsunami Ready Recognition

Programme for implementation PICT)

 What is Tsunami Ready Recognition Programme? Background, history, motivation, benefits

- How to become Tsunami Ready?
 Tools and resources available
- What are the Tsunami Ready Indicators (Assess, Prepare, Respond) – how to achieve, challenges and solutions
- Next steps and action country capacity, needs, challenges



Country Tsunami Ready Worksheets

Jumpstart implementation

- Overviews to assist in identifying existing capacity, gaps, and resources for each Indicator
- Details to assist in further identifying resources, activities, and actions that typically take place for each Indicator.

1		TSUNAMI READY INDICATORS STOCKTAKE			
	TSUNAMI READY INDICATORS	Existing Capacity	Gaps		
1	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				
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12	RESP-4. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place				

Summary to date based on Training

Based on 3-day Training

- Do you have the necessary resources and skills to achieve each Indicator
- Online survey Countries / Territories still need submit their surveys!

Summary to date



Summary to date:

Capacity to Implement
Tsunami Ready TR Indicators
In Pacific

Responding Countries

- 1. Federated State of Micronesia 1
- 2. Federated State of Micronesia 2
- 3. Federated State of Micronesia Pohnpei State
- 4. Fiji
- 5. French Polynesia
- 6. Kiribati
- 7. Nauru
- 8. New Caledonia
- 9. Samoa
- 10. Solomon Islands
- 11. Tonga
- 12. Vanuatu

Does your country have an interest to implement the IOC-UNESCO Tsunami Ready Recognition Programme (TRRP)?

Yes **12**

Does your country already have the National Tsunami Ready Board

Yes 3

No 9

Have the community(ies) interested to implement TRRP been identified

There is a list of the communities the country identified

Yes 8

No 4

Based on the Identified Communities:

Has there been any tsunami awareness and preparedness activities in those community(ies)?

Yes 11

No 1

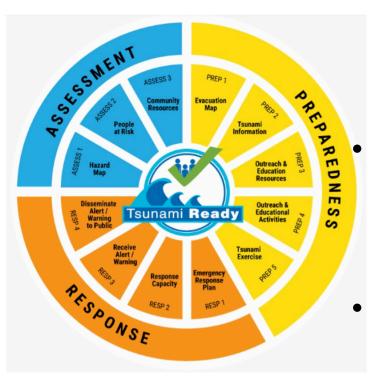
Has there been any tsunami hazard assessment undertaken in those communities?

Yes 6

Vo

5

Capacity to develop or strengthen the IOC-UNESCO Tsunami Ready Indicators



- Can be easily done through national and/or local resources (mobilize national expertise and funding)
- Can be done through national and/or local resources but need ITIC and/or ICG/PTWS technical expertise support
- Need technical expertise and support through ITIC and/or ICG/PTWS regional activities
- Need ITIC and/or ICG/PTWS technical expertise and support through national activities

ASSESSMENT INDICATORS	Can be easily done through national and/or local resources (mobilize national expertise and funding)	Can be done through national and/or local resources but need technical expertise support	Need technical expertise and support through ITIC – ICG/PTWS regional activities	Need ITIC – ICG/PTWS technical expertise and support through national activities
Capacity to develop tsunami hazard map	6	3		3
Train the community on information on the estimate number of people that live in the tsunami hazard zone.	6	3	3	
Train the community on inventory of available economic, infrastructural, political and social resources to reduce tsunami risk at the community level	6	3	3	

PREPAREDNESS INDICATORS	Can be easily done through national and/or local resources (mobilize national expertise and funding)	Can be done through national and/or local resources but need technical expertise support	Need technical expertise and support through ITIC – ICG/PTWS regional activities	Need ITIC – ICG/PTWS technical expertise and support through national activities
Work with the community to develop tsunami evacuation maps, plans and procedures at community level	6	3		3
Work with the community to develop a public display of tsunami information.	4	8		
Work with the community to develop local context outreach and public education materials	6	6		
Train and build capacity of community to be able to organize and implement outreach and education activity	4	8		
Train and build capacity of community to be able to organize and implement tsunami exercise	6	3	2	1

RESPONSE INDICATORS	Can be easily done through national and/or local resources (mobilize national expertise and funding)	Can be done through national and/or local resources but need technical expertise support	Need technical expertise and support through ITIC – ICG/PTWS regional activities	Need ITIC – ICG/PTWS technical expertise and support through national activities
Train and build capacity of community to develop community Emergency Operation Plan	6	5	1	
Train and build capacity of community to manage 24/7 tsunami emergency response operation	6	4		2
Work with the community to develop mechanism (means and procedure) to receive 24/7 tsunami warning	5	5	1	1
Work with the community to develop mechanism (means and procedure) to disseminate 24/7 tsunami warning to the community	5	6		1

Challenges

- Funding
- Identification of expertise
- Inundation maps,
- change of administration,
- land issues
- Technical expertise,

- Data bathymetry,
- Communication
- Challenges are lack of data,
- Developing public awareness
- village /community commitments,
- May not be a priority for decision makers,
- Duplication between NTRB and Tsunami Working Group;
- Full representation of stakeholders at the NTRB;
- Availability of personnel to roll out the program,
- Lack of community willingness





THANK YOU Vinaka Vaka Levu

For more information:

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e-mail: itic@unesco.org

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