

UN Decade of Ocean Science for Sustainable Development IOC Ocean Decade Tsunami Programme - Tsunami Ready





















What is UNESCO/IOC Tsunami Ready Recognition

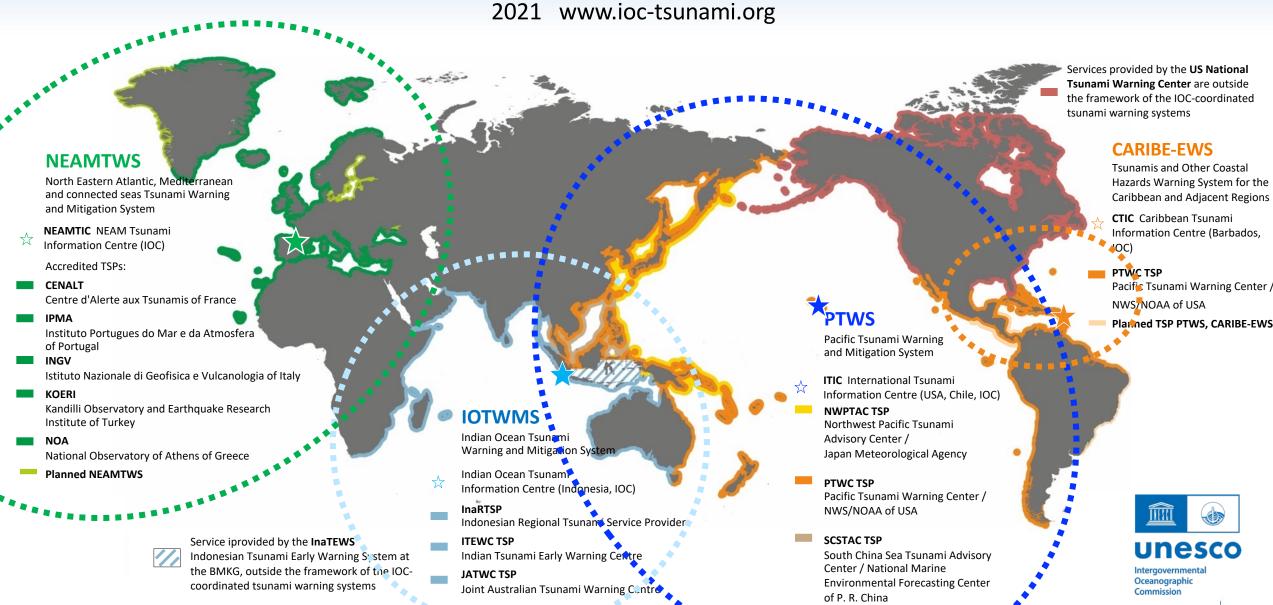
Programme?

2.2 Programme and its Indicators

Dr. Laura Kong International Tsunami Information Centre (ITIC)

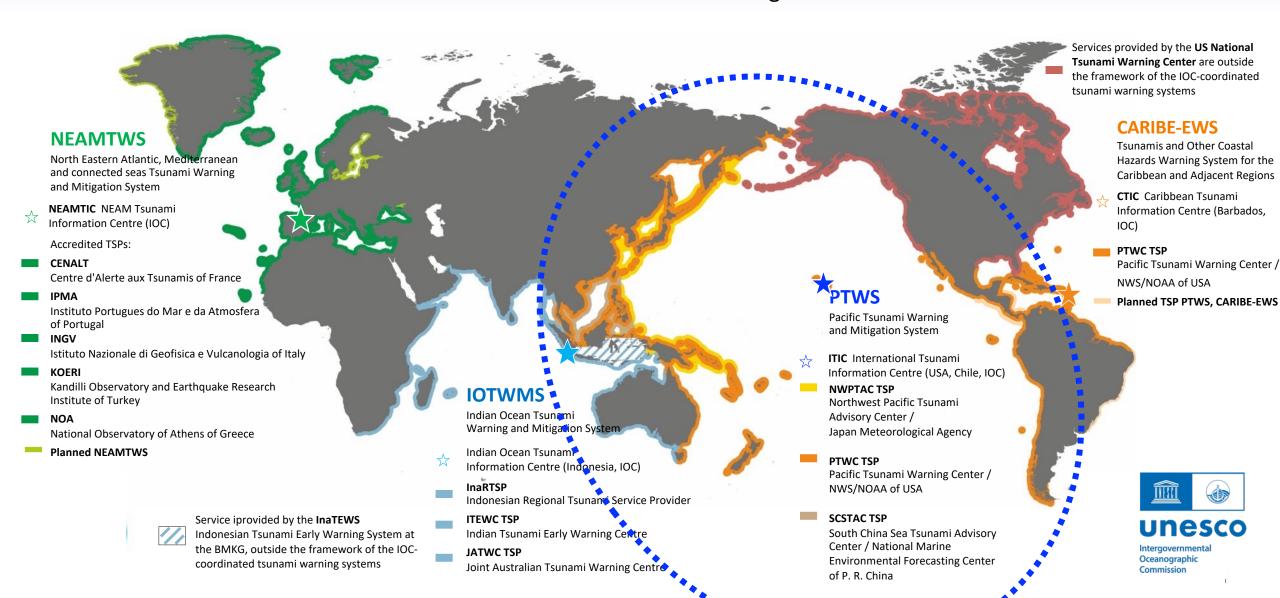
GLOBAL TSUNAMI WARNING AND MITIGATION SYSTEMS

Intergovernmental Oceanographic Commission of UNESCO 2021 www.ioc-tsunami.org



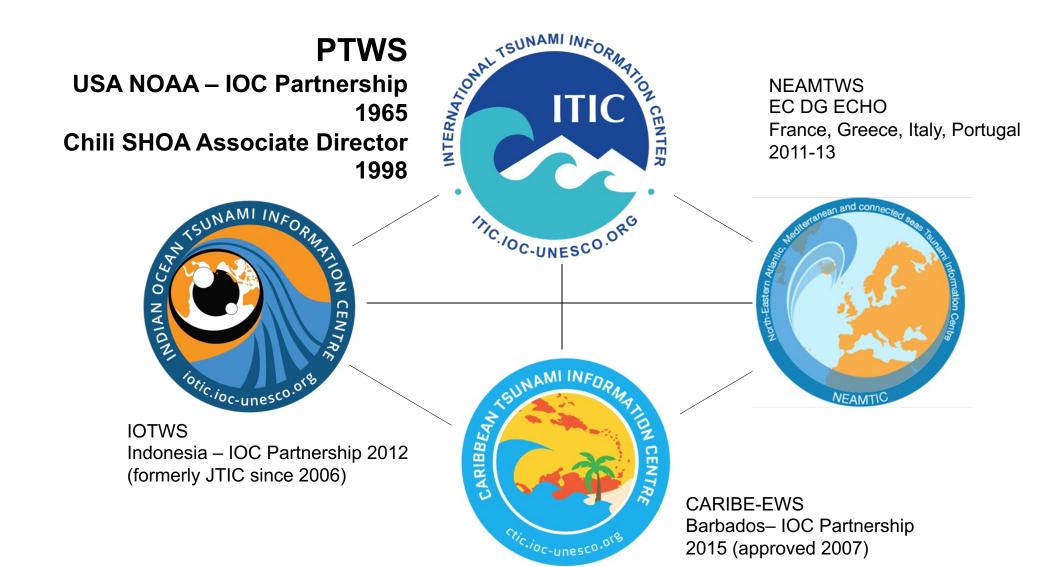
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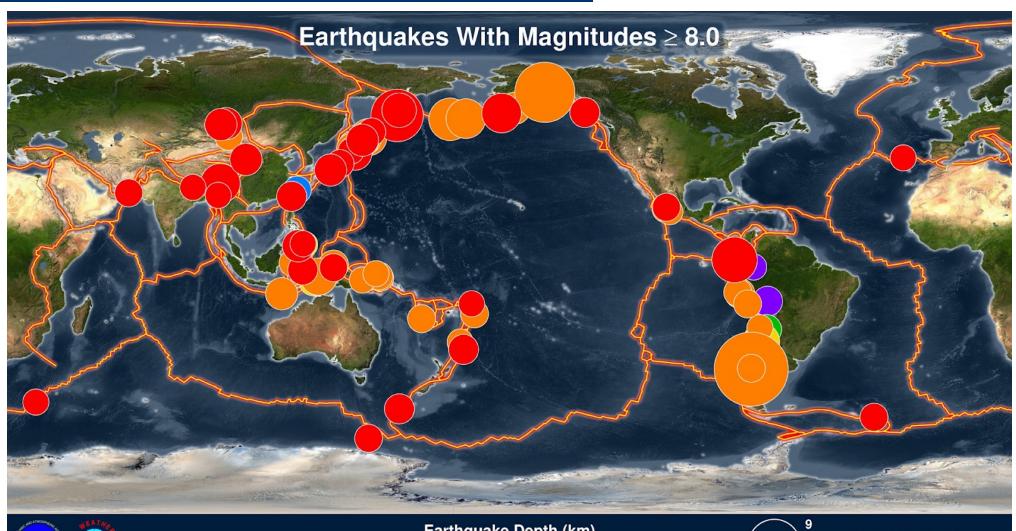


IOC Tsunami Information Centers





DANGEROUS EARTHQUAKES - GLOBAL



Click below for video EQ-Tsunami 1901-2021





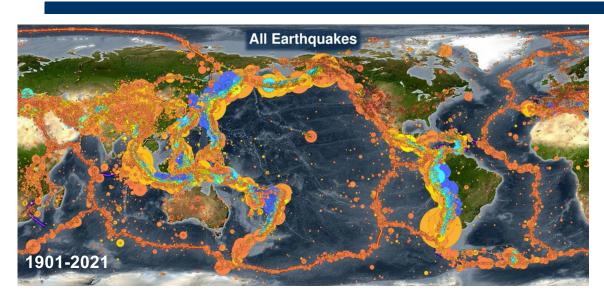
1901 to 2000





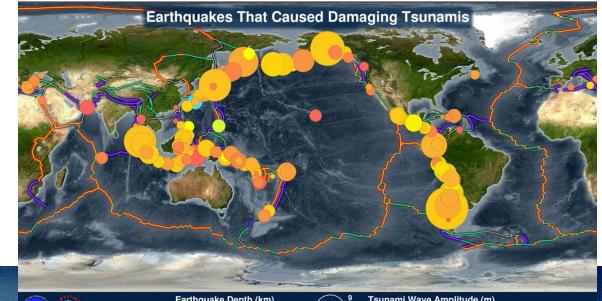
PACIFIC TSUNAMI WARNING CENTER

DANGEROUS EARTHQUAKES & TSUNAMIS



Earthquakes That Caused Tsunamis

- 80% caused by earthquakes
- Shallow, undersea/near coast
- Magnitude 8+ (M7+)











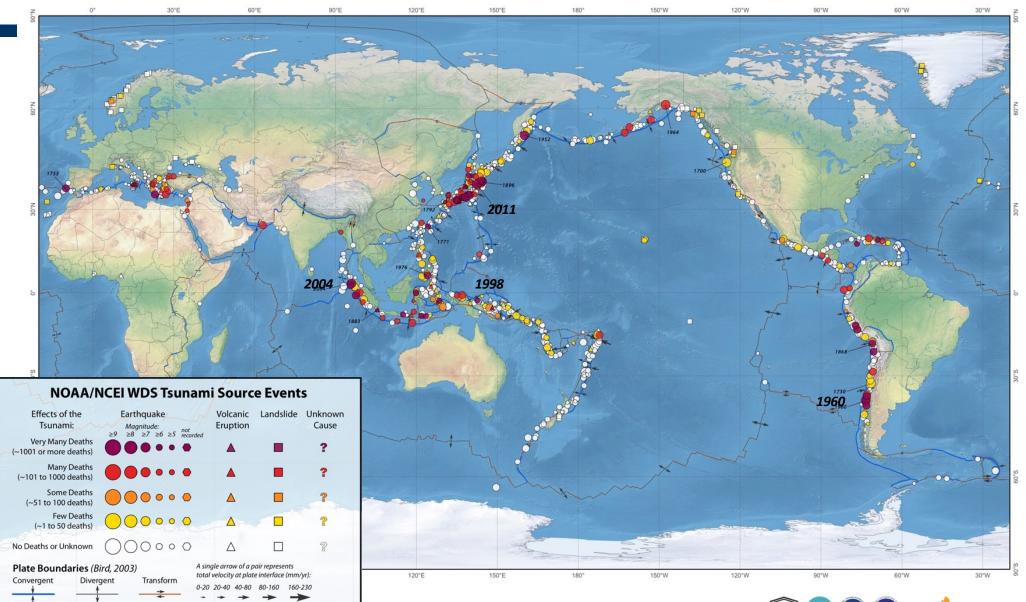








DEADLY TSUNAMIS - GLOBAL (1620 B.C to A.D. 2022)



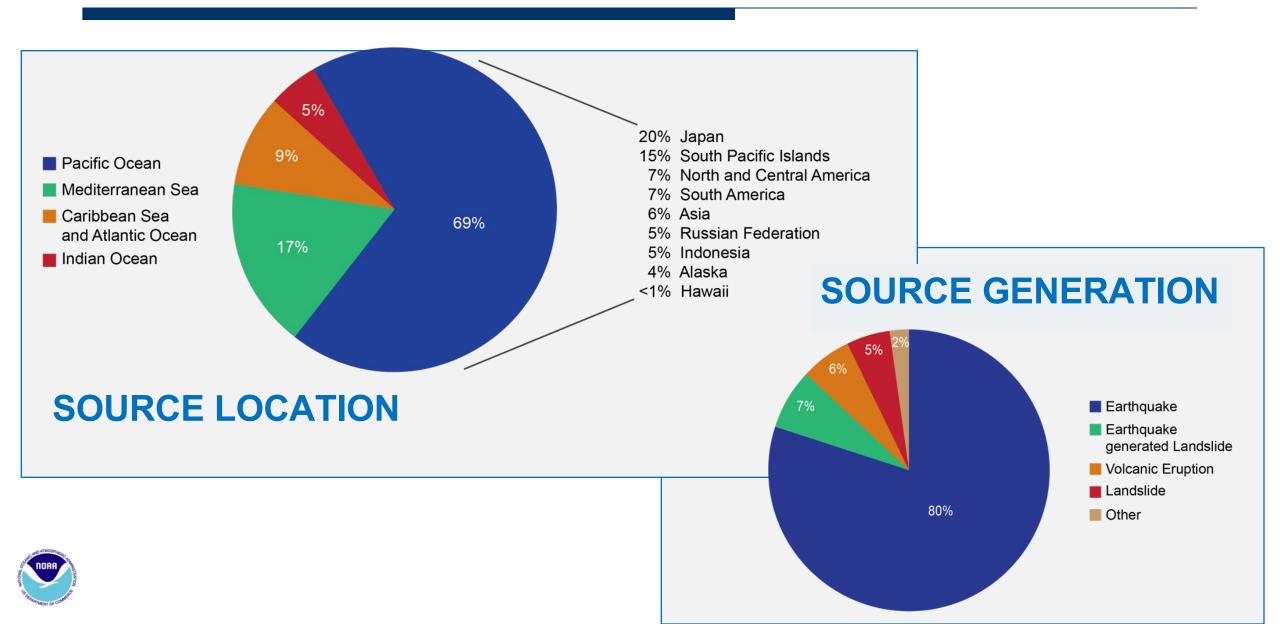




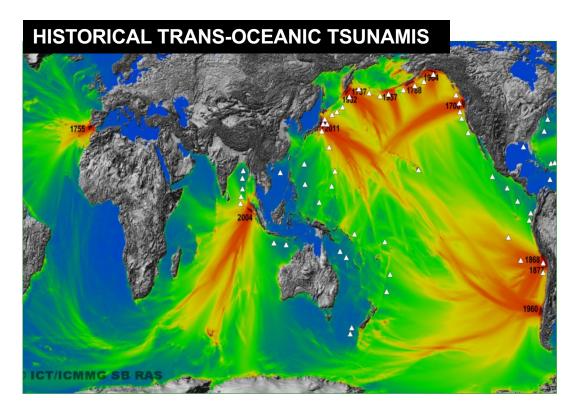


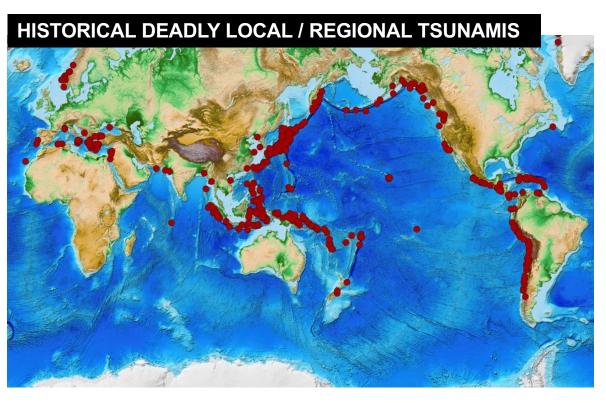


DEADLY TSUNAMIS - GLOBAL (1620 B.C to A.D. 2022)



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





UNESCO IOC TSUNAMI READY INDICATORS

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
- ASSESS-3. Economic, infrastructural, political, and social resources are identified

II PREPAREDNESS (PREP)

- PREP-1. Easily understood tsunami evacuation maps are approved
- 5 PREP-2. Tsunami information is publicly displayed
- 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</u> three times a year
- 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
- 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
- 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







Tsunami Ready Recognition 1 year timeline



	YEAR 0 - 3 months	3 - 6 months	6 - 9 mon	YEAR ths 9 - 12 months
Bi-weekly progress and support meetings Outreach/educational resources and tsunami exercise		PREP-3	, PREP-4, PREP-5	
Inundation mapping	ASSESS-1			
Risk assessment		ASSESS-2, ASSESS-3		
Evacuation mapping		PREP-1		
Signage preparation	TSUNAMI READY INDICATORS		PREP-2	
Signage installation	ASSESSMENT (ASSESS) ASSESS-1. Tsunami hazard zones are mapped and design ASSESS-2. The number of people at risk in the tsunami haz ASSESS-3. Economic, infrastructural, political, and social re	zard zone is estimated.	PREP-2	
SOP and capacity to respond preparation	ASSESS-3. Economic, infrastructural, political, and social re PREPAREDNESS (PREP) PREP-1. Easily understood tsunami evacuation maps are a PREP-2. Tsunami information including signage is publicly or	approved.	RESP-1-4	
SOP and capacity to respond revisions	PREP-3. Outreach and public awareness and education res and distributed. PREP-4. Outreach or educational activities are held at least	sources are available	RESP-1-4	
Tsunami Ready Application	8 PREP-5: A community tsunami exercise is conducted at lea III RESPONSE (RESP) 9 RESP-1. A community tsunami emergency response plan is	s approved.		Submit Application
Tsunami Ready Board meeting	10 RESP-2. The capacity to manage emergency response ope tsunami is in place. 11 RESP-3. Redundant and reliable means to timely receive 2d alerts are in place. 12 RESP-4. Redundant and reliable means to timely receive 2d alerts are in place.	4-hour official tsunami		Recognition Process
Tsunami Ready Recognition ceremony	RESP-4. Redundant and reliable means to timely disseminate tsunami alerts to the public are in place.	ate 24-nour official		United Services Services



How to get Tsunami Ready



 Standard Guidelines for the Tsunami Ready Recognition Program (IOC Technical Series 74, 2022) Intergovernmental Oceanographic Commission
Manuals and Guides

74

Unesco

Standard Guidelines for the
Tsunami Ready Recognition
Programme

□ 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: <u>Pacific Islands</u> <u>Western Pacific</u> <u>Eastern Pacific</u>



Click below for video PICT







THANK YOU Vinaka Vaka Levu

For more information:

web: tsunamiready.org

e-mail: itic@unesco.org

Dr. Laura Kong International Tsunami Information Centre (ITIC)