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Intergovernmental Oceanographic Commission

### **Call to Action**

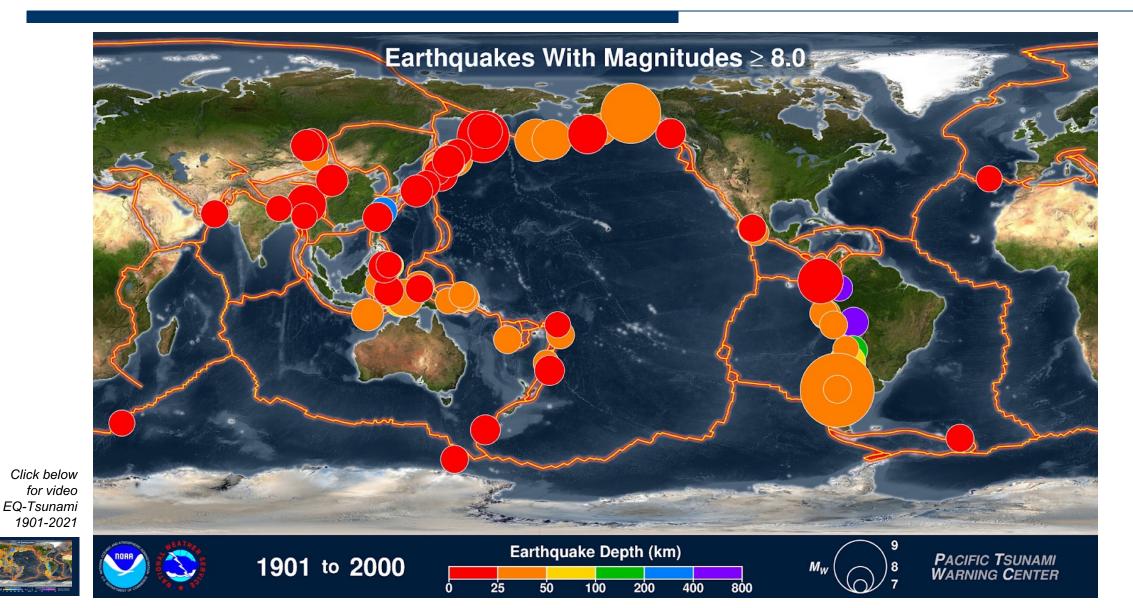
## Be Aware, Be Prepared Be Tsunami Ready !

#### Dr. Laura Kong

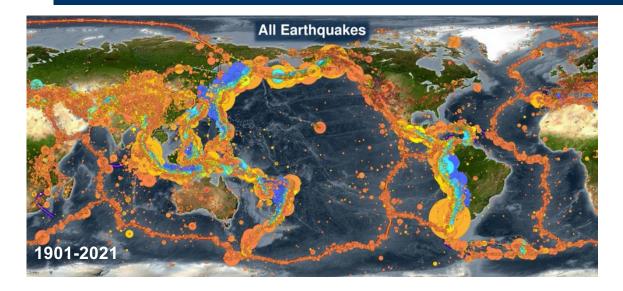
Chair, Tsunami Ready Coalition International Tsunami Information Centre (ITIC), Honolulu

**Bernardo Aliaga** Head, UNESCO/IOC/Tsunami Resilience Section, Paris

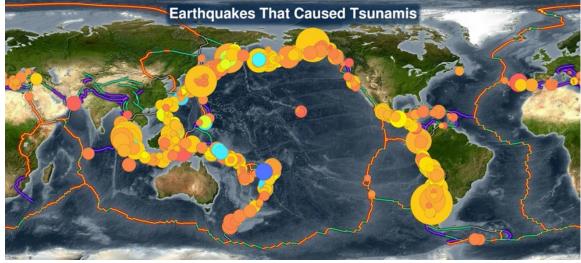
### **DANGEROUS EARTHQUAKES & TSUNAMIS**

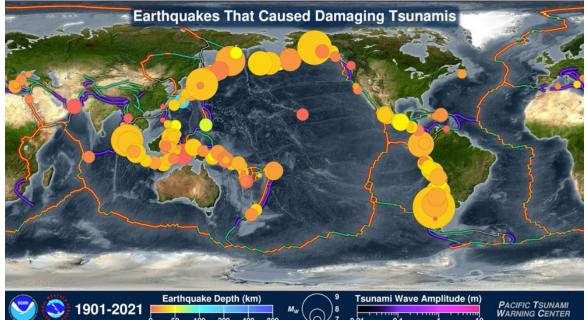


### **DANGEROUS EARTHQUAKES & TSUNAMIS**

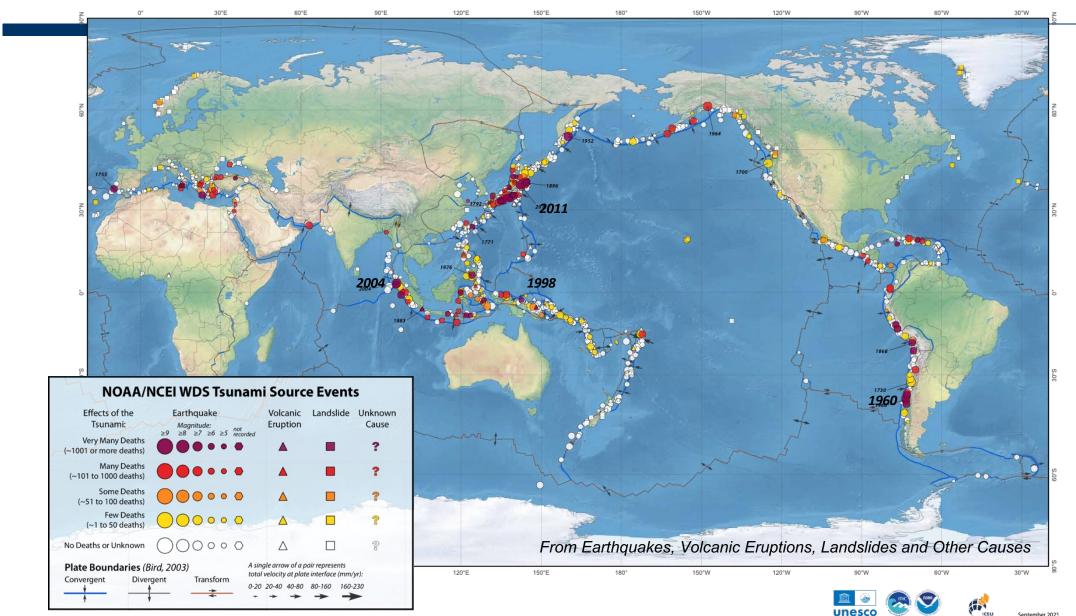


- 80% caused by earthquakes
  Shallow, undersea/near cost
- Shallow, undersea/near coast
- Magnitude 8+ (M7+)



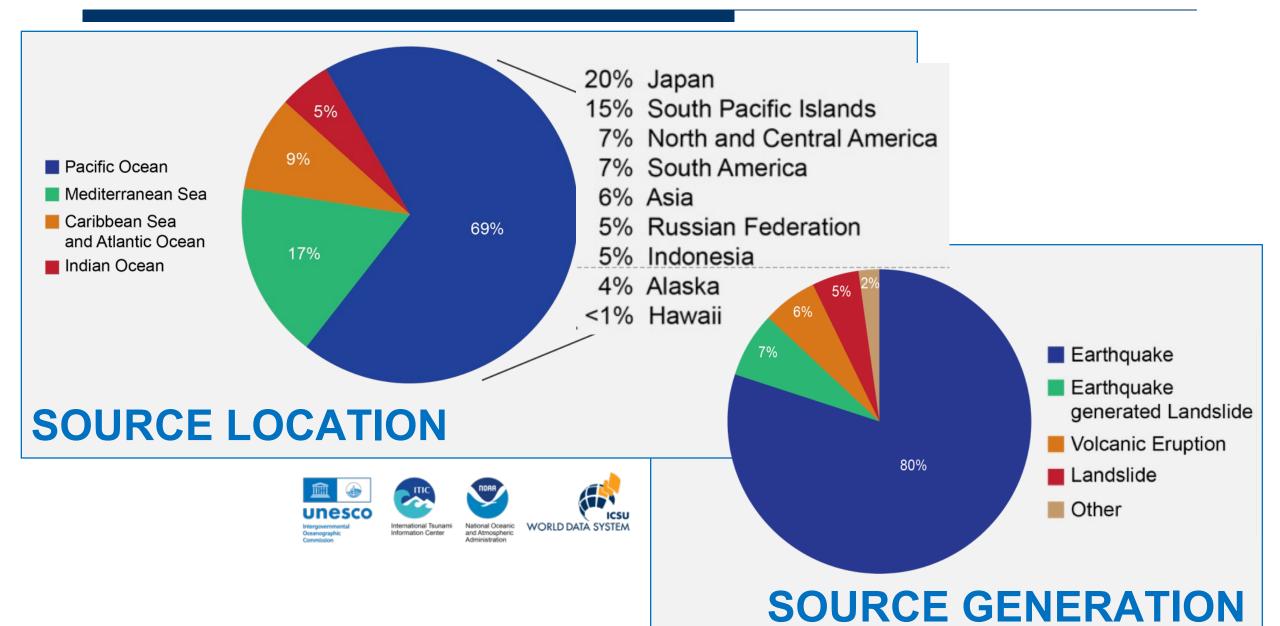


### DEADLY TSUNAMIS (1620 B.C to A.D. 2023)

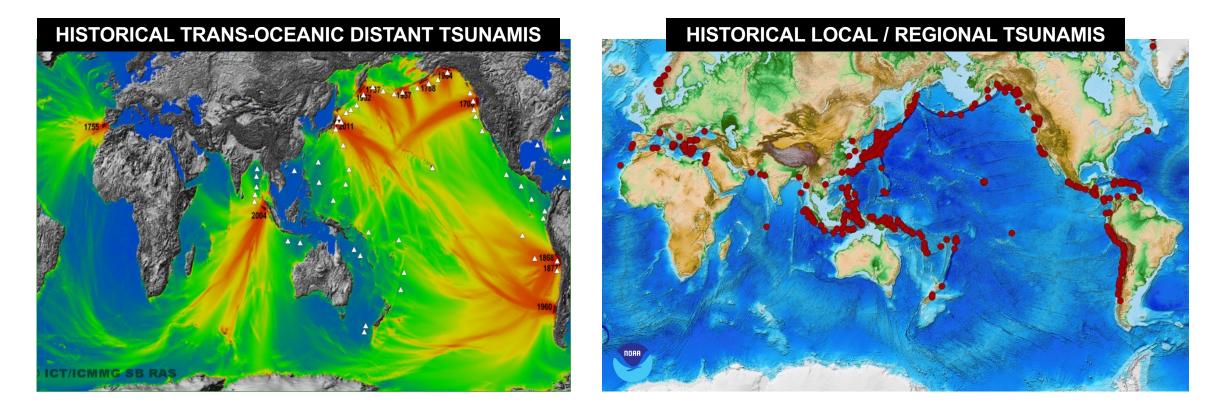


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### DEADLY TSUNAMIS (1620 B.C to A.D. 2023)



### **DEADLY TSUNAMIS – DISTANT to LOCAL**



- Most tsunamis are local (< 1 hr) or regional (1-3 hrs)</p>
- Globally, 90% of deaths from local or regional tsunamis (in Pacific, 99% of deaths)

International Tsunami Information Center





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### UNESCO/IOC Tsunami Ready Recognition Programme



# 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

**Tsunami Coalition**: collaborative with critical UN stakeholders, civil protection, others ==> Raise profile. Facilitate resourcing

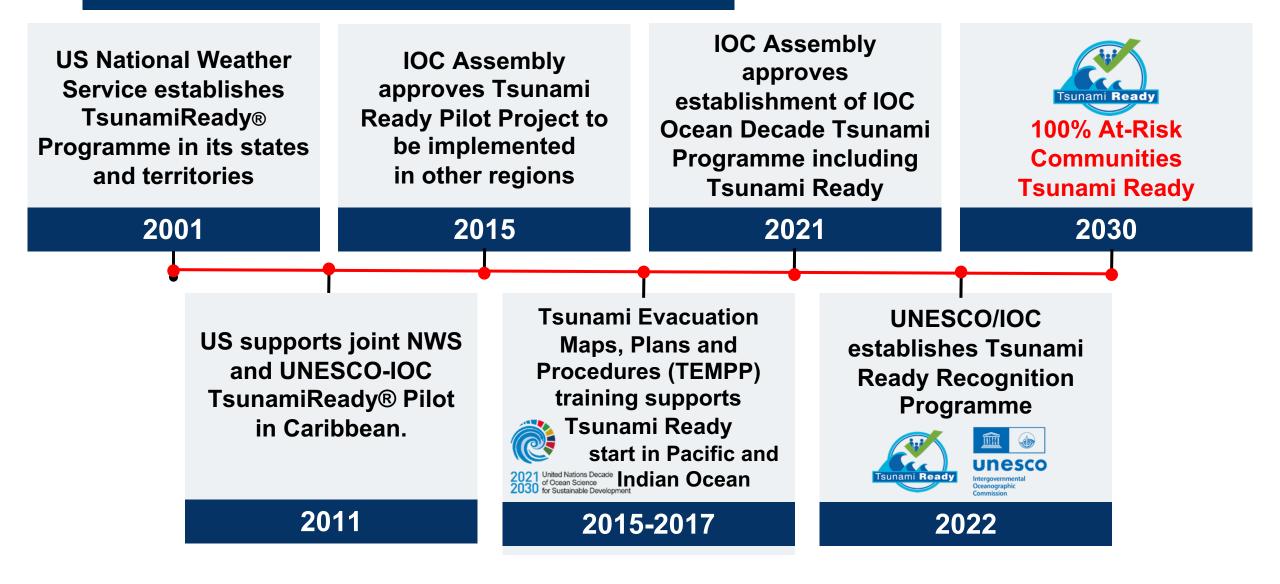
CHAIR is LAURA KONG

BY

2030

**Capacity Development**: "Tsunami Ready" training, augmented by online ITIC is OTGA STC IOC Ocean Teacher Global Academy (OTGA) ==> Global reach, deep curricula

### **History of Tsunami Ready Programme**



#### Standard Guidelines for the Tsunami Ready Recognition Program, UNESCO IOC TS 74

#### UN OCEAN DECADE TSUNAMI PROGRAMME: 100% AT-RISK COMMUNITIES TSUNAMI READY

#### **UNESCO IOC TSUNAMI READY INDICATORS**

#### MITIGATION (MIT)

- 1 MIT-1. Tsunami hazard zones are mapped and designated
- 2 MIT-2. The number of people at risk in the tsunami hazard zone is estimated
- 3 MIT-3. Available economic, infrastructural, political, and social resources are identified
- 4 MIT-4. Tsunami information is publicly displayed.

#### II PREPAREDNESS (PREP)

- 5 PREP-1. Easily understood tsunami evacuation maps are developed.
- 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</u> <u>least 3 times a year.</u>
- 8 PREP-4: A Tsunami community exercise is conducted at least every two years

#### III RESPONSE (RESP)

- 9 RESP-1. A community tsunami emergency operations plan (EOP) has been prepared
- 10 RESP-2. The capacity to manage emergency response operations during a tsunami has been established.
- 11 RESP-3. Redundant and reliable means to timely receive 24-hour official tsunami alerts have been identified.
- 12 RESP-4. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public have been identified.

 STRATEGY: Be Aware, Be Prepared

#### FRAMEWORK:

- Harmonized global guidelines UNESCO IOC Tsunami Ready
- Performance-based Community Recognition
- ACTION:

П

National programs empower Communities

- GLOBAL MEASURE
  - 12 Indicators Assessment, Preparedness, Response



Tsunami Ready



74

**UNESCO-IOC** Tsunami Ready Recognition Programme is:

- Voluntary international performance-based community programme.
- Facilitated by UNESCO-IOC Tsunami Information Centres\* (CTIC, IOTIC, ITIC, and NEAMTIC) of each region
- Formal recognition process follows standard guidelines (UNESCO-IOC Manual and Guide 74).

**UNESCO-IOC Tsunami Information Centres** 









Intergovernmental Oceanographic Commission	
Manuals and Guides	



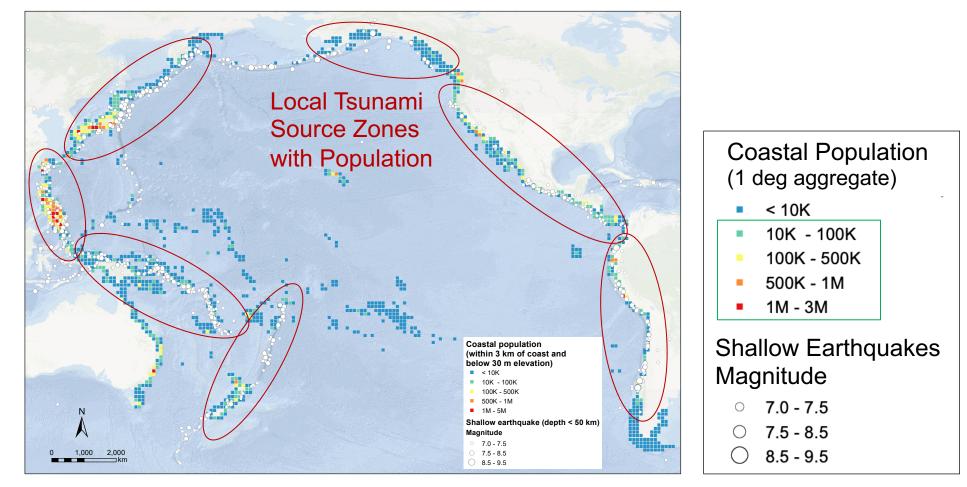
Standard Guidelines for the Tsunami Ready Recognition Programme

UNESCO



### **At-risk population - Pacific**

<b>*</b>	Tsunami evacuation zone	Population to evacuate
	Less than 30 m elevation and within 3 km of coast	83,413,677



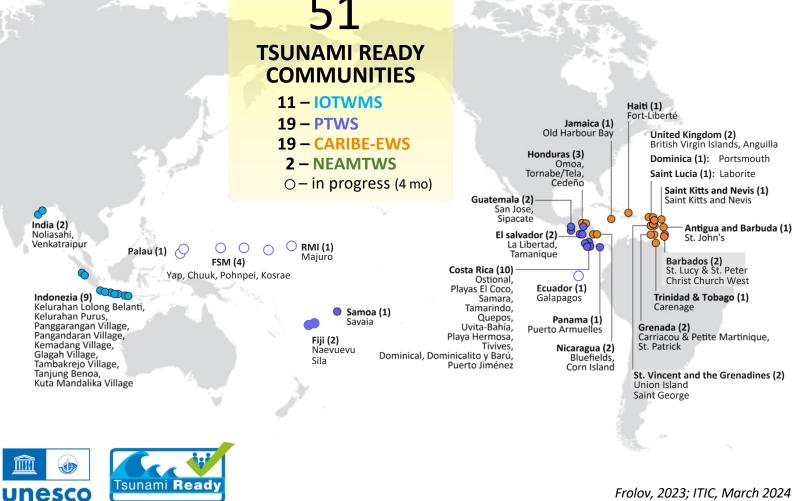
Gridded Population of the World, Version 4 (GPWv4) (https://sedac.ciesin.colum bia.edu/binaries/web/seda c/collections/gpw-v4/gpwv4-documentationrev11.pdf). 30 sec resolution aggregated to 1 deg B. Fry, GNS Science, NZ

### **UNESCO/IOC TSUNAMI READY RECOGNITION PROGRAMME (TRRP)**

51 **TSUNAMI READY** COMMUNITIES 11 - IOTWMSHaiti (1) France **19 – PTWS** Jamaica (1) Italy Old Harbour Bay **19 – CARIBE-EWS** Türkiye Honduras (3) Spain ( 2 – NEAMTWS Greece Omoa, Israel Tornabe/Tela,  $\bigcirc$  – in progress (4 mo) Cedeño Guatemala (2)-San Jose,

#### **MAJOR ACTIVITIES IN 2021-2023**

- **Development of a global Tsunami Ready Interactive Map Viewer**
- Hosting by ITIC of the Tsunami Ready web site
- **Development of a new Tsunami Ready Board Game**
- Publication of the IOC Manuals and Guides 74 «Standard Guidelines for Tsunami Ready **Recognition Programme**»





UN Office for Disaster Risk Reduction





Intergovernmental Oceanographic Commission

Call to Action!

## Making **100%** of at-risk communities **Tsunami Ready** by **2030**.