

# Report of the Working Group on Central America

ICG/PTWS-XXX Meeting Tonga, 11-15/09/2023

**Griselda Marroquín - Chair Wilfried Strauch - Vice Chair** 

### Tsunamis observed in CA - 2022-2023

Hunga Tonga – Hunga Ha'apai - January 15, 2022

Max Water Height (m)= 0.33

### Costa Rica:

3 Tide Gauge22 Eyewitness observation

#### El Salvador:

1 Tide Gauge

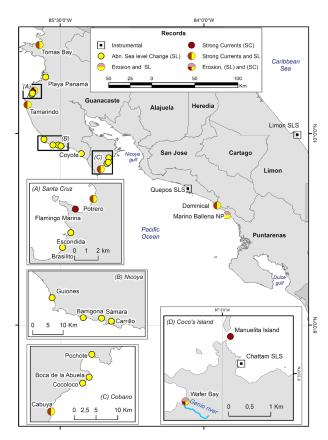
#### Honduras

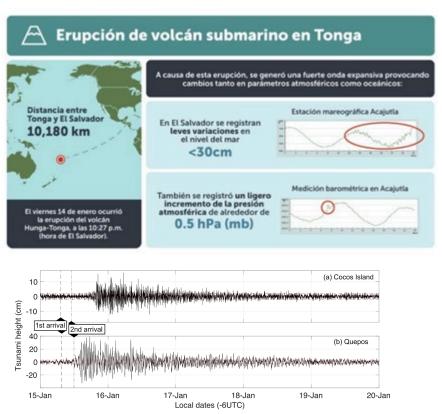
2 Eyewitness observation

Mexico, September 19, 2022

### Costa Rica:

1 Eyewitness observation





# 10th anniversary commemoration

Mendez Island Tsunami - El Salvador. August 27, 2012.



Earthquake and tsunami in Nicoya - Costa Rica. September 5, 2012.



### Pacwave 2022 - evacuation drills - Costa Rica

### September





#### November









### Pacwave 2022 - evacuation drills - El Salvador

#### 2022-11-22:

- ☐ 280 people evacuated to safe areas from the El Majahual/La Libertad community and beach and employees of the mayor's office
- To evacuate visitors, the tsunami flag was used (pilot test)













### Caribe wave 2023 - evacuation drills - Panamá

- □ 28 educational centers in Bocas del Toro participated in the Drill,
- More than 1,000 teachers were part of the instruction sessions,
- □ Between 10 and 15 thousand people participated in the tsunami drill in Bocas del Toro.

https://www.meduca.gob.pa/index.php/node/4989
https://unesdoc.unesco.org/ark:/48
223/pf0000386605









### **National drills**

Country	Threat	Amount per year	Date
Guatemala	Earthquake	1	February*
Honduras			A drill is planned for this year**
El Salvador	Earthquake	1	October***
Nicaragua	Multi-threat	4	Different dates
Costa Rica	Earthquake	1	August
Panamá	Earthquake		A drill is planned for this year****

<sup>\*</sup> It is carried out to commemorate the earthquake of February 4, 1976

In national earthquake drills, tsunami drills are promoted in some communities.



<sup>\*\*</sup> Personal communication with Juan José Reyes

<sup>\*\*\*</sup> It is carried out to commemorate the earthquake of October 10, 1986.

<sup>\*\*\*\*</sup> https://www.tvn-2.com/nacionales/panama-realizara-segundo-simulacro-nacional\_1\_2075215.html

# **Tsunami Ready - CA**

#	Country	Community	Date	Renewal
1	Honduras	Cedeño	2017	2021
2	Costa Rica	Ostional	2017	2021
3	El Salvador	La Libertad	2019	2023
4	El Salvador	Tamanique	2019	2023
5	Guatemala	San José	2019	2023
6	Guatemala	Sicapate	2019	2023
7	Honduras	Omoa	2019	2023
8	Honduras	Tornabe/Tesla	2019	2023
9	Nicaragua	Corn Island	2019	2023
10	Nicaragua	Bluefields	2019	2023

19 communities recognized as tsunami ready.
2 with recognition already expired (2017)

<sup>☐ 8</sup> require renewal this year

#	Country	Community	Date	Renewal
11	Costa Rica	El Coco	2021	2025
12	Costa Rica	Tamarindo	2021	2025
13	Costa Rica	Sámara	2021	2025
14	Costa Rica	Uvita-Bahía	2021	2025
15	Costa Rica	Playa Hermosa	2022	2026
16	Costa Rica	Tivives	2022	2026
17	Costa Rica	Quepos	2022	2026
18	Costa Rica	Dominica- Dominicalito- Barú	2022	2026
19	Costa Rica	Puerto Jiménez	2022	2026

There are some doubts about the requirements to renew. For example, the community must demonstrate the completion of at least 2 drills and 12 outreach activities during the 4 years?

## App - earthquakes early warning

- ☐ For Android operating system.
- ☐ Using firebase cloud messaging
- ☐ For public use in Nicaragua and Costa Rica.
- ☐ On trial in El Salvador and Guatemala.
- ☐ Earthquake Early Warning Project for Central America (ATTAC).
- □ With the participation of the seismological centers of: INETER, Nicaragua. OVSICORI-UNA, Costa Rica. MARN, El Salvador. INSIVUMEH, Guatemala.
- ☐ Coordinated by the Swiss Seismological Service at ETH Zurich.
- ☐ Funded by the Swiss Agency for Development and Cooperation (COSUDE).



# **Sixth Meeting WG-CA**

- ☐ April 24, 2023 in Heredia Costa Rica
- ☐ 10 delegates from 5 countries.
- ☐ 2 UNESCO representatives
- □ The Working Group recognised the efforts and progress made by Nicaragua to strengthen the capabilities of the Central American Tsunami Advisory Center (CATAC), as a Tsunami Service Provider (TSP), by increasing and training its staff, improving its processes, and improving its capacity to process earthquakes and tsunamis in general. The Group also recognised that CATAC has gained experience with the processing of earthquakes that have occurred in the region,



## **Sixth Meeting WG-CA**

for the Caribbean coast of Central America,

- □ The Group recommended that CATAC carry out new communication tests as soon as possible, sending a series of messages to its users to verify that the delivery of the messages is consistent with their sequential numbering, given that there have been challenges in the past,
   □ The Group decided to support the request that CATAC will present at the ICG/CARIBE-EWS-XVI meeting to enter interim and full functionality in the short term
- ☐ The Group recommended that countries ensure the generation and strengthening of national personnel and institutional capacities in early warning systems,
- ☐ **The Group instructed** the Technical Secretary of the ICG/PTWS to forward this recommendation to the ICG/PTWS and ICG/CARIBE-EWS and transfer it to CEPREDENAC for their attention.

# Thank you

Griselda Marroquín – Chair Wilfried Strauch – Vice Chair