

CARIBE WAVE 23 Evaluation

Introduction and Background

ONLINE QUESTIONNAIRE AVAILABLE UNTIL **13 April 2023**.

Dear CARIBE-EWS Tsunami National Contact/National Tsunami Warning Center/Tsunami Warning Focal Point:

The CARIBE WAVE 23 exercise took place on March 23, 2023. The main objectives of the exercise were for Members States/Territories to exercise and evaluate communications with the Regional Tsunami Service Provider and their tsunami procedures and programs.

It was left up to each country to decide at what scale the exercise would be carried out, especially in the light of the ongoing coronavirus pandemic. But, it was recommended to at least validate the receipt of the messages distributed by the Pacific Tsunami Warning Center (PTWC), and in the case of Central America, by the Central America Tsunami Advisory Center (a candidate Tsunami Service Provider).

Questions on the status of the implementation of the Tsunami Ready and TsunamiReady programs are included in this questionnaire. At the end of the questionnaire, there is space for countries to comment on any additional activity or observation.

It should take only 20 minutes to complete.

Every officially designated Tsunami National Contact, National Tsunami Warning Center, or Tsunami Warning Focal Point for the Member States and Territories within the UNESCO ICG CARIBE-EWS framework is kindly requested to complete this form by **April 13, 2023**, even if the participation was limited to the PTWC/CATAC-TWFP/NTWC communications test component.

Only one questionnaire should be completed for each MS/Territory.

Thank you for your participation.

If you have any questions or problems, please contact:

Elizabeth Vanacore, PRSN, CARIBE WAVE 23 Exercise Chair (elizabeth.vanacore@upr.edu)

Christa von Hillebrandt-Andrade, ITIC-CAR Manager (christa.vonh@noaa.gov)

CARIBE WAVE 23 Evaluation

Instructions and Member State/Territory Contact Information

Tsunami National Contacts(TNC)/Tsunami Warning Focal Points(TWFP)/National Tsunami Warning Center(NTWC) are requested to:

- Answer each statement with Yes, No, or Not Applicable by selecting the relevant box.
- If needed, please add comments to explain/expand Yes, No, or Not Applicable answers.

* 1. Contact Information.

Member
State/Territory

* 2. -

Agency

Organization

* 3. -

Name (First, Last)

Position or Job Title

Telephone

Mobile

Email address

CARIBE WAVE 23 Evaluation

Exercise and evaluate communications between PTWC and Member States/Territories

Validate the receipt of tsunami products by CARIBE-EWS Tsunami Warning Focal Points (TWFPs) and/or National Tsunami Warning Centers (NTWCs).

4. Did your country's Tsunami Warning Focal Points/National Tsunami Warning Center receive the PTWC CARIBE WAVE 23 **Dummy (Start of Exercise) Message?**

☐ Yes

☐ No

Comments:

5. The PTWC issued the CARIBE WAVE 23 **Dummy Message by several methods. Please check all methods through which the message was received by the TWFP/NTWC.**

	Yes	No	Not Applicable
WMO Information System (GTS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WMO Information System (WIS (GISC Email))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WMO Information System (WIS (GISC FTP))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NWWS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AISR/AFTN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EMWIN/HRIT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GEONETCast Americas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Email from PTWC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Social Media	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other (please specify)

6. The PTWC issued the CARIBE WAVE 23 **Dummy Message** by several methods. Please indicate the time at which the message was received by the TWFP/NTWC in the different systems.

	Hour	Minutes	Time Zone
WMO Information System (GTS)	<input type="text"/>	<input type="text"/>	<input type="text"/>
WMO Information System (WIS (GISC Email))	<input type="text"/>	<input type="text"/>	<input type="text"/>
WMO Information System (WIS (GISC FTP))	<input type="text"/>	<input type="text"/>	<input type="text"/>
AISR/AFTN	<input type="text"/>	<input type="text"/>	<input type="text"/>
EMWIN/HRIT	<input type="text"/>	<input type="text"/>	<input type="text"/>
GEONETCast Americas	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fax	<input type="text"/>	<input type="text"/>	<input type="text"/>
Email from PTWC	<input type="text"/>	<input type="text"/>	<input type="text"/>
Social Media	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other means	<input type="text"/>	<input type="text"/>	<input type="text"/>

7. Were there any problems with the receipt of PTWC CARIBE WAVE 23 **Dummy (Start of Exercise) Message**?

- ☐ Yes
- ☐ No
- ☐ Not Applicable

Comments:

8. Did the Tsunami Warning Focal Point / National Tsunami Warning Center receive any message from an organization other than the PTWC (e.g. Puerto Rico Seismic Network, Caribbean Disaster Emergency Management Agency)? If yes, please use the comment box to indicate the agencies you received the message from.

- ☐ Yes
- ☐ No

Comments:

9. Did the TWFP/NTWC prepare and issue messages to relevant in-country agencies for CARIBE WAVE 23? If yes, please mention the agencies.

☐ Yes

☐ No

Comments:

10. Did your TWFP/NTWC receive by email from PTWC the **simulated exercise messages** (Gulf of Honduras or Mount Pelée scenario) at the times specified in the Exercise Manual?

☐ Yes

☐ No

☐ Not Applicable

Comments:

11. Did your country's Tsunami Warning Focal Point/National Tsunami Warning Center receive the exercise messages from CATAC?

☐ Yes

☐ No

☐ Not Applicable

CARIBE WAVE 23 Evaluation

Exercise and evaluate communications between CATAC and Central American Member States/Territories

12. CATAC issued the CARIBE WAVE 23 **Dummy Message** by several methods. Please check all methods through which the message was received by the TWFP/NTWC.

	Yes	No	Not Applicable
Email from CATAC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WMO/GTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other (please specify)

13. CATAC issued the CARIBE WAVE 23 **Dummy Message** by several methods. Please indicate the time at which the message was received by the TWFP/NTWC in the different systems.

	Hour	Minutes	Time Zone
Email from CATAC	<input type="text"/>	<input type="text"/>	<input type="text"/>
WMO/GTS	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other means	<input type="text"/>	<input type="text"/>	<input type="text"/>

14. Were there any problems with the receipt of CATAC CARIBE WAVE 23 **Dummy (start of exercise) Message**?

- ☐ Yes
- ☐ No
- ☐ Not Applicable

Comments:

15. Did your TWFP/NTWC receive by email from CATAC the **simulated exercise messages** (Gulf of Honduras scenario)?

- ☐ Yes
- ☐ No
- ☐ Not Applicable

Comments:



CARIBE WAVE 23 Evaluation

Exercise and evaluate volcanic products

As part of CARIBE WAVE 23, the PTWC with relevant stakeholders and the CARIBE EWS Task Team on Tsunami Procedures for Volcanic Crises developed a suite of experimental volcanic products. The questions in this section are to receive feedback from countries which used the Mount Pelée scenario on the simulated messages issued as part of CARIBE WAVE 23.

16. Did you use the Mount Pelée scenario for CARIBE WAVE 23 Exercise?

☐ Yes

☐ No

CARIBE WAVE 23 Evaluation

Evaluate proposed PTWC CARIBE EWS products for volcanic events.

17. Rate the text message by PTWC on its usefulness in decision making from 1 (poor) to 5 (excellent).

1	2	3	4	5
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18. Did the test contain all the information required for national/local decision making? Please provide comments and suggestions on how to improve.

- ☐ Yes
☐ No

Comments:

19. Were regional in-country event information/data (sea level, volcanic, etc.) utilized to complement the PTWC exercise messages?

- ☐ Yes
☐ No

Comments:

20. Was additional in-country expert consultation utilized for analyzing the PTWC exercise messages?

- ☐ Yes
☐ No

Comments:

21. What was the reaction of authorities/media and public to the Mount Pelée exercise? If other, please specify in the comments.

- ☐ Interest
- ☐ Fear
- ☐ No reaction
- ☐ Other

22. Does your country have a tsunami response plan for volcanic events?

- ☐ Yes
- ☐ No

Comments:

CARIBE WAVE 23 Evaluation

Type of exercise

23. What type of activity was conducted for CARIBE WAVE 23?

- ☐ International Communication Test Portion (PTWC-TWFP/NTWC)
- ☐ National Communication Test Portion
- ☐ Full-scale Exercise
- ☐ Tabletop Exercise
- ☐ Drill Exercise
- ☐ Functional Exercise
- ☐ Virtual Presentation
- ☐ In Person Presentation
- ☐ Press Conference
- ☐ Test of Emergency Response Plans
- ☐ Other (please specify)

Comments:

CARIBE WAVE 23 Evaluation

27. Did news media participate and cover the exercise? (Please provide the photos/videos through email to christa.vonh@noaa.gov and stephanie.soto@noaa.gov and electronic links if applicable at <https://www.tsunamizone.org/share/>)

☐ Yes

☐ No

Comments:

28. Where are the exercise photos/videos shared? Please share the website or social media links where these are posted.

29. Were social scientists engaged in exercise planning/activities? (If yes, please provide more information in the comments.)

☐ Yes

☐ No

Comments:

30. Were persons with disabilities and their representative organization engaged in the exercise? (If yes, please provide more information in the comments.)

☐ Yes

☐ No

Comments:

CARIBE WAVE 23 Evaluation

CARIBE EWS Tsunami Ready recognition program

The Tsunami Ready Recognition Programme is an international community-based recognition programme developed by Intergovernmental Oceanographic Commission (IOC) of UNESCO. It aims to build resilient communities through awareness and preparedness strategies that will protect life, livelihoods and property from tsunamis in different regions.

The programme was modeled after the US National Oceanographic and Atmospheric Administration (NOAA) National Weather Service's TsunamiReady® Program. The Pilot began in the Caribbean and was then extended into the Pacific, Indian Ocean and Northeast Atlantic and Mediterranean. In June 2022, the IOC Executive Council, at the recommendation of the TOWS-WG, approved the establishment of the UNESCO/IOC Tsunami Ready Recognition Programme. UNESCO/IOC Tsunami Information Centres in each region (CTIC, IOTIC, ITIC, NEAMTIC) have the role of facilitating and assisting Member States in the implementation of Tsunami Ready in their countries.

The implementation of the Tsunami Ready Recognition Programme will be a key contribution to achieving the UN Decade of Ocean Science for Sustainable Development Tsunami Programme goal of 100% of tsunami at-risk communities prepared and resilient by 2030 through efforts like Tsunami Ready.

For more information on the Tsunami Ready Programme, visit tsunamiready.org

31. Is your country implementing the UNESCO/IOC Tsunami Ready Recognition Programme (or TsunamiReady®)?

- ☐ Yes, national institutions are discussing the programme implementation
- ☐ Yes, the national level is organizing itself
- ☐ Yes, some municipalities want to get involved in the Programme
- ☐ Yes, some municipalities have started to take steps to obtain recognition
- ☐ Yes, one or more applications are underway or communities have been recognized
- ☐ No

Comments:

For more information on the Tsunami Ready programme, visit tsunamiready.org

32. Would your country be interested in implementing the UNESCO/IOC Tsunami Ready Recognition Programme?

- ☐ Yes - Please provide further information on the timeline, needs and/or support.
- ☐ No - Why are you not interested?

Comments:

CARIBE WAVE 23 Evaluation

Tsunami Ready implementation

For more information on the Tsunami Ready programme, visit tsunamiready.org

33. Do you know the target number of the communities in your country/territory for UNESCO/IOC Tsunami Ready or TsunamiReady® recognition?

- ☐ Yes - Indicate the number and name of communities
- ☐ No

Number and name of communities:

CARIBE WAVE 23 Evaluation

Preparedness and Response

34. At what level are tsunami hazard assessment (e.g. inundation maps) available for your Country/Territory?

- ☐ Whole country or territory
- ☐ A majority of areas
- ☐ Some areas
- ☐ Not available

35. What scenario/s does your tsunami hazard assessment map cover for your Country/Territory? Select from the following list.

	Yes	No
Local Scenario	<input type="radio"/>	<input type="radio"/>
Regional Scenario	<input type="radio"/>	<input type="radio"/>
Distant Scenario	<input type="radio"/>	<input type="radio"/>

Comments:

36. Is tsunami information publicly displayed in your Country/Territory? Select from the following list.

	Whole Country/Territory	Some communities	No
Tsunami Hazard Zone Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tsunami Evacuation Route Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tsunami Assembly Points Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Entering/Leaving Tsunami Hazard Zone Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tsunami Response Education Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tsunami Ready Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tsunami Mural	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What is the approximate number of signs installed in your country?

37. Are tsunami evacuation maps available for your Country/Territory? Select from the following list.

	Whole Country/Territory	Some communities	No
Local Scenario	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regional Scenario	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Distant Scenario	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maximum Worst Case Scenario	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What input was used to develop the evacuation maps (e.g. bathtub model, fixed height/distance, numerical modeling)?

38. Does the TWFP/NTWC/NDMO have standard operating procedures in place for the receipt and dissemination of tsunami alerts?

☐ Yes

☐ No

Comments:



CARIBE WAVE 23 Evaluation

GENERAL OBSERVATIONS

39. Rate Overall Satisfaction with the Exercise

	Not at all satisfied									Extremely Satisfied
Rating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments:

40. How did you find the exercise useful?

41. How many people do you estimate participated in the exercise within your country/territory? In addition to national statistics, can also refer to registrations on <https://tsunamizone.org>

42. What could the CARIBE WAVE Task Team do to encourage more participation?

43. Do you have any suggestions for how the CARIBE WAVE Task Team might improve the exercise next year?

44. Do you have any specific tsunami sources you would like for the ICG CARIBE EWS to consider for CARIBE WAVE 2024?

45. Please provide a general statement on your CARIBE WAVE 23 Tsunami Exercise experience or any additional comments related to the exercise or Tsunami Ready

A large, empty rectangular box with a thin black border, intended for a user to provide a general statement or additional comments. The box is positioned below the question text and occupies a significant portion of the page's vertical space.