



## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### INTRODUCTION

Thank you for participating in UNESCO/IOC's EXERCISE PACIFIC WAVE 2020!

Please take the time to thoughtfully complete the EXERCISE PACIFIC WAVE 2020 Post-Exercise Evaluation Form.

Your feedback is essential.

## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### INSTRUCTIONS

Prior to completing this Online Survey, please read these instructions carefully.

Post-Exercise Evaluation Forms are to be completed by each participating agency and forwarded to the country Exercise Pacific Wave 2020 National Contact, or the country Tsunami National Contact (TNC).

**The National Contact will compile the country Post-Exercise Evaluation Form and complete and submit this online no later than 21 December 2020.**

**Note: Only ONE (1) on-line evaluation form is to be completed per country.** The PacWave20 National Contact, TNC, or Tsunami Warning Focal Point (TWFP) should compile sub-jurisdiction evaluations into one country evaluation to submit.

If you have difficulty submitting your evaluation online, you may submit your Country Evaluation Form by email to Pacific Wave 2020 Task Team Chairs:

- Laura Kong (email: [laura.kong@noaa.gov](mailto:laura.kong@noaa.gov)), or
- Emilio Talavera (email: [emilio.talavera@gf.ineter.gob.ni](mailto:emilio.talavera@gf.ineter.gob.ni))

<b>EXERCISE PACIFIC WAVE 2020</b> <b>Instructions on how to Complete this Post-Exercise Evaluation Form</b>		
STEP	WHO COMPLETES THIS STEP?	DESCRIPTION
1	Each participating Agency/Country	Decide if your agency/country will include additional evaluation questions for each objective. Country/agency evaluation questions can be added at the <b>end</b> of each section. However, do NOT change the reference numbers to the questions
2	Each participating Agency/Country	<p>Print this form and mark your evaluation answers on it.</p> <p>Answer questions only for the Objectives (activities) that your country participated in.</p> <p>Due to the COVID-19 pandemic, countries may not have conducted national or regional exercises, and therefore Objectives b) and c) would not have been addressed.</p> <p>Objective 1 (a) is the only requirement for PacWave20.</p> <p>Objective 4 (d) is required for those countries participating in the CATAC regional exercise.</p>
3	Each participating Agency/Country	<ul style="list-style-type: none"> <li>• Answer each statement with either Y (Yes), N (No).</li> <li>• Comments should be used to explain/expand upon your Yes or No answer</li> <li>• Write your comments on the page following the evaluation questions. Note the question number in the left column and write your comments alongside.</li> </ul>
4	Each participating Agency/Country	Send completed agency evaluation form to country PacWave20 National Contact so he/she can compile to complete Country PacWave20 Post-Exercise Evaluation Form (this URL).
5	PacWave20 National Contact	<p>PacWave20 National Contact should complete and submit thePacWave20 Post-Exercise Evaluation Form by <b>21 December 2020</b>.</p> <p>(<a href="https://www.surveymonkey.com/r/pacwave20_eval">https://www.surveymonkey.com/r/pacwave20_eval</a>).</p> <p>If there are problems or questions, please contact the PacWave20 Task Team co-Chairs: Laura Kong, <a href="mailto:laura.kong@noaa.gov">laura.kong@noaa.gov</a>; or Emilio Talavera, <a href="mailto:emilio.talavera@gf.ineter.gob.ni">emilio.talavera@gf.ineter.gob.ni</a></p>



## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### CONTACT DETAILS

**\* Agency**

**\* Country**

**\* Contact Name**

**\* Contact Position**

**\* Contact Phone**

**\* Contact Mobile**

**\* Contact E-mail**

## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### OBJECTIVE 1 (Objective a)

**Test communications from the approved and developing Tsunami Service Providers (PTWC, NWPTAC, SCSTAC, CATAC) to Member States/Countries.**

**1.1 Did your country Tsunami Warning Focal Point receive the PTWC, NWPTAC, SCSTAC, and/or CATAC Exercise Dummy message?**

☐ Yes

☐ No

Comments

**1.2 If yes, please select which Tsunami Service Provider you received the Exercise Dummy message from:**

☐ PTWC

☐ NWPTAC

☐ SCSTAC

☐ CATAC

Comments

**1.3 If you received an Exercise Dummy message, when did you receive the message(s)? Please state the time in UTC:**

PTWC

NWPTAC

SCSTAC

CATAC

**1.4 How did you receive the message(s)? Please tick methods.**

☐

GTS

☐

Fax

☐

AFTN

☐

Email

☐

EMWIN

☐

Other (Please specify):

**Objective 1 (Objective a) Comments**

## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### OBJECTIVE 2 (Objective b)

**Objective 2: To test national communication and cooperation, and readiness within the country.**

**Objective 2a: To test national communication and cooperation within the country.**

#### 2.1 The warning was disseminated to:

- |   |  |
|---|--|
| <input type="checkbox"/> Emergency services                                   | <input type="checkbox"/> Local government: provincial/regional level |
| <input type="checkbox"/> Other national government agencies                   | <input type="checkbox"/> Local government: city/district level       |
| <input type="checkbox"/> Science agencies/universities involved in assessment | <input type="checkbox"/> Public                                      |

Please list number of destinations:

**2.2 What time was warning sent to the agency or agencies or Public listed in Q2.1? Please note the date and time using 24-hour clock and UTC, e.g., 5 Nov, 14:35 UTC.**

**2.3 How did you send the warning to emergency, national, science, and local government agencies in Q2.1? Tick all that apply.**

- |  |  |
|--|--|
| <input type="checkbox"/> Landline Telephone        | <input type="checkbox"/> Chatty Beetle |
| <input type="checkbox"/> Satellite Telephone       | <input type="checkbox"/> TV            |
| <input type="checkbox"/> Cell or Mobile Phone      | <input type="checkbox"/> Website       |
| <input type="checkbox"/> Fax                       | <input type="checkbox"/> Twitter       |
| <input type="checkbox"/> Email                     | <input type="checkbox"/> Facebook      |
| <input type="checkbox"/> SMS                       | <input type="checkbox"/> RSS           |
| <input type="checkbox"/> Radio (UHF, VHF, Amateur) |  |
| <input type="checkbox"/> Other (Please specify)    |  |

**2.4 How did you send the warning to the Public? Tick all that apply.**

- |  |   |
|--|---|
| <input type="checkbox"/> Landline Telephone        | <input type="checkbox"/> Twitter                                      |
| <input type="checkbox"/> Satellite Telephone       | <input type="checkbox"/> Facebook                                     |
| <input type="checkbox"/> Cell or Mobile Phone      | <input type="checkbox"/> RSS  |
| <input type="checkbox"/> Fax                       | <input type="checkbox"/> Sirens                                       |
| <input type="checkbox"/> Email                     | <input type="checkbox"/> Public Announcement Systems (voice speakers) |
| <input type="checkbox"/> SMS                       | <input type="checkbox"/> Emergency cell / mobile phone broadcast      |
| <input type="checkbox"/> Radio (UHF, VHF, Amateur) | <input type="checkbox"/> Police                                       |
| <input type="checkbox"/> Chatty Beetle             | <input type="checkbox"/> Door-to-door announcements                   |
| <input type="checkbox"/> TV                        | <input type="checkbox"/> Electronic billboards                        |
| <input type="checkbox"/> Website                   |   |
| <input type="checkbox"/> Other (Please specify)    |   |

**2.5 Based on feedback from agencies, were the communication methods timely and appropriate?**

- ☐ Yes
- ☐ No

**2.6 Based on feedback from agencies, were the message(s) disseminated from the NTWC/NDMO accurate and clear?**

- ☐ Yes
- ☐ No

**2.7 Did the national disaster management organisation (or equivalent) maintain communication with the National Tsunami Warning Centre throughout the event?**

- ☐ Yes
- ☐ No

Comments

**2.8 If you answered yes to Q2.7, what was the nature of the communication between the national disaster management organisation (or equivalent) with the national tsunami warning centre throughout the event?**



**Objective 2a Comments**

## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### Objective 2b

**Objective 2: To test national communication and cooperation, and readiness within the country.**

**Objective 2b: To test national readiness within the country.**

**2.9 The NTWC/NDMO has an activation and response process (standard operating procedures) in place for the receipt of tsunami warnings?**

- ☐ Yes  
☐ No

**2.10 The NTWC/NDMO knows its specific response role in the event of a tsunami?**

- ☐ Yes  
☐ No

**2.11 The NTWC/NDMO has, prior to the exercise, engaged in tsunami response planning?**

- ☐ Yes  
☐ No

**2.12 The NTWC/NDMO has undertaken activities to increase its capacity and capability to support a national tsunami response?  
(for example, training, exercise, etc.)**

- ☐ Yes  
☐ No

If yes, List activities

**2.13 The NTWC/NDMO has an appropriate management structure identified and documented to support tsunami response?**

- ☐ Yes  
☐ No

**2.14 The NTWC/NDMO has a national tsunami mass coastal evacuation plan?**

- ☐ Yes
- ☐ No

**2.15 Arrangements to assemble the in-country disaster management group relevant to decision-making on tsunami warning and response were in place before the exercise?**

- ☐ Yes
- ☐ No

**2.16 A country tsunami emergency response plan (standard operating procedures) for tsunamis exists? Tick all that apply.**

- ☐ Local (less than 1 hour arrival time)
- ☐ Regional (1-3 hours arrival time)
- ☐ Distant (greater than 3 hours)

**2.17 The response plan includes processes to issue Safe-to-Return (All-Clear) notices?**

- ☐ Yes
- ☐ No

**2.18 Tsunami exercises are routinely conducted in-country?**

- ☐ Yes
- ☐ No

Please list last exercise, and type of exercise scenario (local, regional, distant).

**2.19 Tsunami-related public education and awareness materials have been developed and disseminated?**

- ☐ Yes
- ☐ No

**2.20 Tsunami-related curriculum programmes are in place for all levels (pre, primary, secondary, post-secondary) of education?**

☐ Yes

☐ No

If No, please list which levels have programmes.

**2.21 All tsunami-vulnerable communities have tsunami evacuation maps, signage, and assembly points for evacuation?**

☐ Yes

☐ No

If No, please list number of communities with maps and signage, gaps, and future plans to fill gaps.

**2.22 What type of exercise did you conduct?**

☐ Orientation

☐ Drill

☐ Tabletop

☐ Functional

☐ Full Scale

☐ Other (please specify)

**2.23 Did you conduct community evacuation?**

☐ Yes

☐ No

**If Yes, what type?**

☐ Schools

☐ Businesses

☐ Community

☐ Other (please specify)

**2.24 If you answered yes to Q2.23, approximately how many people were evacuated in total?**

**Objective 2b Comments**

## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### OBJECTIVE 3 (Objective c)

#### *To test regional communication and cooperation.*

##### **3.1 Did your country engage in communication and cooperation with other countries in the region for PacWave20?**

☐ Yes

☐ No

If yes, please list countries.

##### **3.2 What types of cooperation were conducted?**

☐ Data sharing (seismic, sea level, etc.)

☐ Event information sharing

☐ Alert coordination (levels, dissemination)

☐ Joint PacWave20 exercise

☐ Other (Please specify)

##### **3.3 Did the National Tsunami Warning Center communicate with other countries during the event?**

☐ Yes

☐ No

If Yes, please list countries.

**3.4 Did the National Disaster Management Agency communicate with other countries during the event?**

☐ Yes

☐ No

If Yes, please list countries.

**3.5 Was national information shared with other countries during the event?**

☐ Yes

☐ No

If Yes, please list.

**3.6 What type of national information did you share? Tick all that apply.**

☐ Seismic phase arrival times

☐ Tsunami Observations

☐ Earthquake hypocentre and/or magnitude

☐ Tsunami Evacuation

☐ Tsunami Alert Level (such as Warning, Cancellation, etc.)

☐ Tsunami Impact

☐ Tsunami Forecast

☐ Other (Please specify)

**3.7 How did you communicate the information?**

☐ Radio (UHF, VHF, Amateur)

☐ Fax

☐ Landline Telephone

☐ Email

☐ Satellite Telephone

☐ SMS

☐ Cell or Mobile Phone

☐ Chatty Beetle

☐ Other (Please specify)

**Objective 3 Comments**



## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### OBJECTIVE 4 (Objective d). (available in Spanish in online version)

*Evaluate the format and content of the Central AmericaTsunami Advisory Centre (CATAC) Products (if applicable for your country).*

*Evalúe el formato y el contenido de los productos del Centro de Asesoría sobre Tsunamis de América Central (CATAC) (si es aplicable para su país).*

**4.1 Information provided in the Central America Tsunami Advisory Center (CATAC) messages was understood by and useful to the National Tsunami Warning Centre (NTWC)/National Disaster Management Office (NDMO)?**  
**La información proporcionada en los mensajes del Centro de Asesoramiento sobre Tsunamis de América Central (CATAC) fue comprendida por el Centro Nacional de Alerta contra los Tsunamis (NTWC)/Oficina Nacional de Gestión de Desastres (NDMO) y resultó útil para ellos.**

- ☐ Yes
- ☐ No
- ☐ Not Applicable

Comments

**4.2 Threat information in CATAC products was understood and useful.**

**La información sobre las amenazas en los productos de la CATAC era entendida y útil. Por favor, comente lo que sea necesario.**

- Productos de texto
- Productos gráficos

	Yes	No	Not Applicable
Text products	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Graphical products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please comment as necessary.

**4.3 Components of the CATAC product suite were understood and useful?**

Los componentes del conjunto de productos de la CATAC se comprendían y eran útiles. Por favor, comente según sea necesario sobre la claridad o confusión del producto.

- ☐ Yes
- ☐ No
- ☐ Not Applicable

Please comment as necessary on product clarity or confusion.

**4.4 The information provided assisted with decision making?**

(e.g. warning levels, earthquake parameters, estimated arrival times, forecast wave heights, etc.)

La información proporcionada ayudó en la toma de decisiones, por ejemplo, niveles de alerta, parámetros de terremotos, tiempos estimados de llegada, previsión de alturas de olas, etc.

- ☐ Yes
- ☐ No
- ☐ Not Applicable

Comments

**Objective 4 Comments**

**Objetivo 4 Comentarios (inserte filas adicionales según sea necesario)**

## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### GENERAL EXERCISE OBSERVATIONS

**Provide feedback on the planning and conduct of PacWave20.**

**Please also provide information on your country's exercise.**

- Include electronic links to Media Coverage in Comments section.
- Send summaries, photos and videos directly to the PTWS Technical Secretary  
(Bernardo Aliaga, [b.aliaga@unesco.org](mailto:b.aliaga@unesco.org)) and PacWave20 Chairs  
(Laura Kong, [laura.kong@noaa.gov](mailto:laura.kong@noaa.gov), Emilio Talavera, [emilio.talavera@gf.ineter.gob.ni](mailto:emilio.talavera@gf.ineter.gob.ni))

**Evaluation Statements / Questions. Indicate Yes or No.**

## Overall assessment

	Yes	No
Country stakeholder agencies have a better understanding of the goals, responsibilities and roles in tsunami emergencies.	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Gaps in capability and capacity have been identified.	<input type="radio"/>	<input type="radio"/>
Community have a better understanding of their tsunami risk and are better prepared for tsunami events.	<input checked="" type="radio"/>	<input checked="" type="radio"/>
News media participated and covered the exercise (Please provide electronic links if applicable in Comments).	<input type="radio"/>	<input type="radio"/>
How many people do you estimate participated in the exercise within your country/territory? Include both government and non-government agencies and public, if applicable.	<input checked="" type="radio"/>	<input checked="" type="radio"/>

### Comments

**Exercise planning (please make comment for each in the comments section)**

	Yes	No
Overall, the exercise planning, conduct, format and style were satisfactory.	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Exercise planning at the international level went well.	<input type="radio"/>	<input type="radio"/>
Exercise planning at the national level went well.	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Exercise planning at the provincial/local level went well.	<input type="radio"/>	<input type="radio"/>
The PacWave20 exercise website pages were useful.	<input checked="" type="radio"/>	<input checked="" type="radio"/>
This evaluation form was easy to use.	<input type="radio"/>	<input type="radio"/>
PacWave20 Exercise Manual provided an appropriate level of detail.	<input checked="" type="radio"/>	<input checked="" type="radio"/>
IOC Manual & Guides 76: Plans and Procedures for Tsunami Warning and Emergency Management was useful.	<input type="radio"/>	<input type="radio"/>
IOC Manual & Guides 58: How to Plan, Conduct, and Evaluate IOC Tsunami Wave Exercises was useful.	<input checked="" type="radio"/>	<input checked="" type="radio"/>
IOC Manual & Guides 82: Preparing for Community Tsunami Evacuations: from inundation to evacuation maps, response plans and exercises was useful	<input type="radio"/>	<input type="radio"/>
Tsunami Coastal Assessment Tool (TsuCAT) was used for exercise planning or hazard assessment	<input checked="" type="radio"/>	<input checked="" type="radio"/>

Comments



## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

### EXERCISE PACIFIC WAVE 2020 EXPERIENCE

**Please provide a general statement on your Exercise Pacific Wave 2020 experience.**

#### Exercise Planning

**Please provide a general statement about what went well.**

**Please provide a general statement about what did not go well.**

**Please provide a general statement about what could be improved.**

#### Exercise Conduct

**Please provide a general statement about what went well.**

**Please provide a general statement about what did not go well.**

**Please provide a general statement about what could be improved.**

## Exercise Debrief or Evaluation

Please provide a general statement about what went well.

Please provide a general statement about what did not go well.

Please provide a general statement about what could be improved.

Thank you for completing the EXERCISE PACIFIC WAVE 2020 Evaluation Form.

If you have further questions or need additional tsunami information, please do not hesitate to contact:

**Bernardo Aliaga** ([b.aliaga@unesco.org](mailto:b.aliaga@unesco.org)), ICG/PTWS Technical Secretary

**PacWave20 Chairs:**

**Laura Kong**, ITIC Director ([laura.kong@noaa.gov](mailto:laura.kong@noaa.gov))

**Emilio Talavera**, [emilio.talavera@gf.ineter.gob.ni](mailto:emilio.talavera@gf.ineter.gob.ni))



United Nations  
Educational, Scientific and  
Cultural Organization



Intergovernmental  
Oceanographic  
Commission



National Oceanic  
and Atmospheric  
Administration



Service Hidrográfico y  
Oceanográfico de la  
Armada de Chile



International Tsunami  
Information Center



## EXERCISE PACIFIC WAVE 2020 (PacWave20) Post-Exercise Evaluation Form

Click "Done" to submit your EXERCISE PACIFIC WAVE 2020 (PacWave20) Exercise Evaluation