

EXERCISE PACIFIC WAVE 2015 (PacWave15) Exercise Evaluation

INTRODUCTION

Thank you for participating in UNESCO/IOC's Exercise Pacific Wave 2015!

Please take the time to thoughtfully complete the PacWave15 Exercise Evaluation Questionnaire. Your feedback is essential.

INSTRUCTIONS

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

Completing this Online Survey:

- (1) Please answer each question or statement. Most questions/statements require a "Yes" or "No" response.
- (2) An optional "Comments" box following each question/statement can be used to explain/expand upon the response.

The PacWave15 National Contact should complete and submit the PacWave15 Evaluation Form by 21 February 2015 (https://www.surveymonkey.com/r/pacwave15_eval).

If there are problems or questions, please contact the PacWave15 Task Team co-Chairs (Laura Kong, laura.kong@noaa.gov; Jo Guard, jo.guard@dpmc.govt.nz)

Remember:

- Only ONE (1) Online Survey should be submitted per country. If there were multiple participants, it is requested that the PacWave15 National Contact collate the individual evaluations, summarize, and then submit only 1 Online Survey.
- DEADLINE for submitting Online Survey is 21 February 2015 .

CONTACT INFORMATION

1. Country

2. Agency

3. Contact Name

4. Contact Position

5. Contact Phone

6. Contact Mobile

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7. Contact E-mail

SCENARIO AND EXERCISE

8. Country Exercise Scenario

(select scenario used)

- ☐ Nansei-Shoto Trench
- ☐ Tonga Trench
- ☐ Colombia-Ecuador Trench
- ☐ Northern Japan Trench
- ☐ Manila Trench
- ☐ Peru-Chile Trench

Comments (optional)

OBJECTIVE 1:

To test communication methods from the PTWS Tsunami Service Providers to participating countries.

9. Did your country Tsunami Warning Focal Point receive the Msg #1: PTWC DUMMY information/threat message (text product)?

This message referred the recipient to the actual Text Product, which was posted for pre- or during-exercise download on the PacWave15 web site.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

If your answer is Yes, please comment when you received the message? (UTC time)

If your answer is No, please comment.

- ☐ Yes
- ☐ No
- ☐ N/A

Comment (including UTC receipt time)

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10. How did you receive the PTWC text message?

Please tick all methods that apply:

- ☐ GTS
- ☐ AFTN
- ☐ EMWIN
- ☐ Fax
- ☐ Email
- ☐ CISN (Real-Time Earthquake Display)

Other (please specify)

11. Did your country Tsunami Warning Focal Point receive the Msg #1: JMA NWPTAC DUMMY information/threat message (text product)?

This message referred the recipient to the actual Text Product, which was posted for pre- or during-exercise download on the PacWave15 web site.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

If your answer is Yes, please comment when you received the message? (UTC time)

If your answer is No, please comment.

- ☐ Yes
- ☐ No
- ☐ N/A

Comment (including UTC receipt time)

12. How did you receive the JMA NWPTAC text message?

Please tick all methods that apply:

- ☐ GTS
- ☐ AFTN
- ☐ Fax
- ☐ Email

Other (please specify)

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13. Did your country Tsunami Warning Focal Point receive Msg #2: PTWC DUMMY threat message by email (enhanced graphical products - regional)?

This message referred the recipient to the actual Enhanced Products, which were posted for pre- or during-exercise download on the PacWave15 web site.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

If your answer is Yes, please comment when you received the message by email? (UTC time)

If your answer is No, please comment.

☐ Yes

☐ No

☐ N/A

Comments (including UTC receipt time)

14. Did your country Tsunami Warning Focal Point receive Msg #3: PTWC DUMMY threat message by email (enhanced graphical products - Pacific-wide)?

This message referred the recipient to the actual Enhanced Products, which were posted for pre- or during-exercise download on the PacWave15 web site.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

If your answer is Yes, please comment when you received the message by email? (UTC time)

If your answer is No, please comment.

☐ Yes

☐ No

☐ N/A

Comments (including UTC receipt time)

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15. For Nansei-Shoto and Manila Trench scenarios only. Other scenarios should reply N/A.

Did your country Tsunami Warning Focal Point receive the Msg #4: PTWC DUMMY threat message by email (enhanced graphical products - Shallow Marginal Seas, High-Resolution Forecast)?

This message referred the recipient to the actual Enhanced Products, which were posted for pre- or during-exercise download on the PacWave15 web site.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

If your answer is Yes, please comment when you received the message by email? (UTC time)

If your answer is No, please comment.

☐ Yes

☐ No

☐ N/A

Comments (including UTC receipt time)

16. You may add additional individual agency evaluation statements regarding OBJECTIVE 1 in the section below.

OBJECTIVE 2

To test whether PTWS PTWC Tsunami Service Provider products are interpreted by countries accurately and in a timely manner.

17. Information provided in the PTWC products (text and enhanced) was understood by and useful to the National Tsunami Warning Centre (NTWC)/National Disaster Management Office (NDMO).

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

☐ Yes

☐ No

☐ N/A

Comments (optional)

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18. Product Staging: Threat information through time in PTWC products was timely, understood and useful.

Please comment, as necessary, e.g., was the information in the PTWC products timely, or too late?

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

	Yes	No	N/A
Msg#1: Text - General threat for nearest coasts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg #2: Region - Numerical forecast for nearest coasts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg #3: Pacific - Numerical forecast for the Pacific	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg #4 (if applicable): Shallow Marginal Seas - Numerical forecast at higher resolution for very shallow seas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Later Products: Text - Monitoring of tsunami via sea level observation readings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments (optional)

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19. Product Understanding: Components of the PTWC product suite were understood and useful.

Please comment, as necessary, on product clarity.

e.g., was the information in the PTWC products useful or not useful; was the information clear and easy to understand, or confusing, or too difficult?)

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

	Yes	No	N/A
Text Products (initial, later)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coastal Tsunami Amplitude Forecast Polygons Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Table of Forecast Statistics for Polygons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deep-Ocean Tsunami Amplitude Forecast (Energy) Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coastal Tsunami Amplitude Forecast Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regional Coastal Tsunami Amplitude Forecast Maps	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coastal Tsunami Amplitude KMZ file	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments (optional)

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20. Please RANK the PTWC products in order of their usefulness from 1 to 7, where 1 is the most useful product and 7 is the least useful product?

	1 - Most useful	2	3	4	5	6	7 - Least useful
Text Product	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coastal Tsunami Amplitude Forecast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Polygons Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Table of Forecast Statistics for Polygons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deep-Ocean Tsunami Amplitude Forecast (Energy) Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coastal Tsunami Amplitude Forecast Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regional Coastal Tsunami Amplitude Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments (optional)

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21. How did your country assess the tsunami threat during the exercise?

Please tick as many as apply

	Yes	No	N/A
National tsunami experts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
National tsunami coordination committee	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
National tsunami historical database	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
NGDC/WDS-MGG tsunami historical database (web)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TsuDig historical database GIS tool (NGD/ITIC offline)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
National pre-computed tsunami scenarios	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
National tsunami forecasts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
International tsunami forecasts. Specify forecast source (PTWC, NWPTAC) in comments.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication with outside sources (such as ITIC, media, other). Specify in comments.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments (optional)

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22. The information provided assisted with decision making, e.g., warning levels, earthquake parameters, estimated arrival times, forecast wave amplitudes, etc.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

23. The information issued by your country National Tsunami Warning Center (NTWC) was according to standard operating procedures.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

24. Is the resolution quality of the graphical products acceptable?

Currently, graphical products are sent to TWFPs as minimum-sized files, where each email contains 2 MB or less of attached files. As a result, the graphics are of poor quality when zoomed in.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

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25. To improve the resolution quality of the graphical products, greater internet bandwidth is needed. Is your TWFP / NTWC able to efficiently receive emails and quickly download file attachments that are up to 5 MB? Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

26. You may add additional individual agency evaluation statements regarding OBJECTIVE 2 in the section below.

OBJECTIVE 3:

To test national and regional cooperation.

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

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

28. The NTWC/NDMO knows its specific response role in the event of a tsunami.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

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29. The NTWC/NDMO has, prior to the exercise, engaged in tsunami response planning. Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

30. The NTWC/NDMO regularly undertakes activities to increase its capacity and capability to support a national tsunami response (for example, training, exercise, etc.) – Note activities in Comment section. Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

31. The NTWC/NDMO has an appropriate management structure identified and documented to support tsunami response. Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

32. The NTWC/NDMO has a tsunami mass coastal evacuation plan. Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

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

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

34. A country tsunami emergency response plan (standard operating procedures) for regional/local tsunamis exists.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

35. The warning was disseminated to:

Please tick as many as apply

	Yes	No	N/A
Emergency services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other national government agencies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Science agencies/universities involved in assessment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local government: provincial/regional level	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local government: city/district level.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments (optional)

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36. Regional/local tsunami exercises are routinely conducted in-country. Specify last exercise in Comments section.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

37. Tsunami-related curriculum programmes are in place for all levels of education. Specify which levels in Comments section.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

38. Communities have tsunami evacuation maps, routes, evacuation signs and assembly points for evacuation areas? Please specify any gaps and future plans to fill gaps.

Indicate Yes or No or Not Applicable (N/A), and provide comments as needed.

- ☐ Yes
- ☐ No
- ☐ N/A

Comments (optional)

39. You may add additional individual agency evaluation statements regarding OBJECTIVE 3 in the section below.

GENERAL EXERCISE OBSERVATIONS

Provide feedback on the planning and conduct of PacWave15

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40. OVERALL ASSESSMENT. Please provide comments as needed.

Yes

No

Country stakeholder agencies have a better understanding of the goals, responsibilities and roles in tsunami emergencies.

☐☐

Gaps in capability and capacity have been identified.

☐☐

Comments and/or suggested preparations. (optional)

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41. EXERCISE PLANNING. Please provide comments as needed.

Yes

No

Overall, the exercise planning, conduct, format and style were satisfactory.

☐☐

Exercise planning went well.

☐☐

The PacWave 15 exercise website pages were useful.

☐☐

This Evaluation Form and online format was easy to use.

☐☐

PacWave15 Exercise Manual provided an appropriate level of detail.

☐☐

IOC Manual & Guides 58: How to Plan, Conduct, and Evaluate IOC Tsunami Wave Exercises was useful.

☐☐

Comments and/or suggested preparations. (optional)

GENERAL EXERCISE OBSERVATIONS (continued)

If you would like please provide general statements on your Exercise PacWave 15 experience.

This section is optional.

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42. 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.

43. 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.

44. 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.

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Thank you for completing the PacWave15 Exercise Evaluation Form.

If you have further questions or need additional tsunami information, please do not hesitate to contact:
Bernardo Aliaga (b.aliaga@unesco.org), ICG/PTWS Technical Secretary
Laura Kong (laura.kong@noaa.gov), ITIC Director



United Nations
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Intergovernmental
Oceanographic
Commission



National Oceanic
and Atmospheric
Administration