

IOC Circular Letter No 3052
(Available in English, French and Spanish)

IOC/VH/BA/ON/ba
8 August 2025

To : ICG/PTWS Tsunami Warning Focal Points (TWFP)
ICG/PTWS Tsunami National Contacts (TNC)

C.c. : Official National Coordinating Body for liaison with the IOC Member States
Permanent Delegates/Observer Missions to UNESCO of IOC Member States
National Commissions for UNESCO in IOC Member States
PTWS Steering Committee

**Subject: Post-Event Assessment of the Performance of the Pacific Tsunami
Warning and Mitigation System (PTWS) during the 29 July 2025
M8.8 Kamchatka earthquake and tsunami event**

An earthquake at a depth of 21 km with a magnitude of 8.8 (USGS) on 29 July 2025 23:24 (UTC) offshore Kamchatka, Russian Federation, resulted in a TSUNAMI THREAT MESSAGE issued by the Pacific Tsunami Warning Center (PTWC), Tsunami Service Provider (TSP) of the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS), 10 minutes after the event indicating the possibility of hazardous tsunami waves (based on magnitude 8.0 and depth of 74 km) for coasts located in Russia and Japan within 300 km of the earthquake epicentre.

The IOC Task Team on Tsunami Watch Operations, jointly with the Task Team on Disaster Management and Preparedness recommended that the trigger for implementing a post-event assessment should be a tsunami threat of >1 m amplitude forecast in one or more countries in a region. Over and above this trigger level, the final decision to implement a survey should be decided by the regional Tsunami Information Centre (TIC) in consultation with the ICG Steering Group and the ICG Secretariat based at UNESCO-IOC taking into consideration whether the tsunami resulted in a national response in one or more countries.

From the forecast polygons issued for this event and the sea-level observations as reported in the final message of the PTWC, the trigger threshold was reached. Following consultations with the International Tsunami Information Center (ITIC) and the PTWS Steering Committee, it has been agreed that the recent event provides us with an opportunity to evaluate the performance of the system. This will enable Member States of the ICG/PTWS to identify those components which worked properly and, most importantly, what components did not work in an appropriate manner and require further attention.

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EGYPT

The post-event assessment questionnaire attached to this letter for reference and use has been designed and approved by the Working Group on Tsunami and other Hazards related to Sea-Level Warning and Mitigation Systems (TOWS-WG) and subsequently accepted by the IOC Assembly in June 2015. Please complete and return the attached questionnaire by email to laura.kong@noaa.gov copied to o.necmioglu@unesco.org. A Survey Monkey questionnaire has been set up with the support of the ITIC, where you can answer all the questions online at https://www.surveymonkey.com/r/peaq_kamchatka2025. The deadline for submitting the questionnaire is 5th September 2025. Due to the very short deadline, the questionnaire is only available in English, but responses can be submitted in any of the four official languages of the IOC: English, French, Spanish and Russian.

To evaluate the performance of the PTWS and to provide a benchmark of the present status of the system we seek your support and cooperation to complete this questionnaire as fully and accurately as possible. This may involve obtaining inputs from different organisations, but we believe that this effort will have direct benefits for the entire Pacific community at regional, national and local levels.

After receiving the questionnaires from the Member States, and with the kind support of the Government of Japan, the information will be compiled and published in a report, which will be distributed to ICG/PTWS members.

We would like to stress that the objective of this assessment is to be positive and constructive, and not to be in any way critical or judgemental. We would like the report to be as open and honest as possible, and we hope that you will approach the questionnaire in this spirit. We would also welcome any other information you would like to be included in the report, such as photographs, national reports of the event or any comments on the system and areas in need of improvement.

We are confident that all Member States will understand the importance and value of conducting this assessment and we rely on your support. It is vital that we use such events to measure the performance of the PTWS in order to test it and improve it for future tsunami events with even higher destructive potential.

Thank you for participating in UNESCO-IOC's Post-Event Assessment Questionnaire. If you have further questions or need additional tsunami information, please do not hesitate to contact: Bernardo Aliaga Rossel (b.aliaga@unesco.org), Head of the IOC Tsunami Resilience Section, Öcal Necmioglu, ICG/PTWS Technical Secretary (o.necmioglu@unesco.org), or Laura Kong, ITIC Director (laura.kong@noaa.gov).

With the assurances of my highest consideration, I remain,

Yours sincerely,

[signature]

Vidar Helgesen
Executive Secretary

Enclosure: 29 July 2025, M8.8, off Kamchatka, Russian Federation, Post-Event Assessment Questionnaire (provided for convenience of reading and in case you do not have access to SurveyMonkey. Responses to the survey are preferred online at https://www.surveymonkey.com/r/peaq_kamchatka2025).



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29 July 2025 M8.8 Kamchatka earthquake and tsunami: Post-Event Performance Survey

INTRODUCTION

An earthquake at a depth of 21km with a magnitude of 8.8 (USGS) on 29 July 2025 23:24 (UTC) offshore Kamchatka, Russia resulted in a TSUNAMI THREAT MESSAGE issued by the Pacific Tsunami Warning Center (PTWC), Tsunami Service Provider (TSP) of the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS), 10 min after the event indicating the possibility of hazardous tsunami waves (based on magnitude 8.0 and depth of 74 km) for coasts located in Russia and Japan within 300 km of the earthquake epicenter.

The Working Group on Tsunami and other Hazards related to Sea-Level Warning and Mitigation Systems (TOWS-WG) on Tsunami Watch Operations, jointly with the Task Team on Disaster Management and Preparedness recommended that the trigger for implementing a post-event assessment should be a tsunami threat of >1 m amplitude forecast in one or more countries in a region. Over and above this trigger level, the final decision to implement a survey should be decided by the regional Tsunami Information Centre (TIC) in consultation with the ICG Steering Group and the ICG Secretariat taking into consideration whether the tsunami resulted in a national response in one or more countries.

From the forecast polygons issued for this event and the sea-level observations as reported in the final message of the PTWC, the trigger threshold was reached. Following consultations with the International Tsunami Information Center (ITIC) and the PTWS Steering Committee it has been agreed that the recent event provides us with an opportunity to evaluate the performance of the system. It will enable Member States of the ICG/PTWS to identify those components which worked properly and, most importantly, any components which did not work in an appropriate manner and are in need of further attention.

The post-event assessment questionnaire attached to this letter for reference and use has been designed and approved by the TOWS-WG and subsequently accepted by the IOC Assembly at its 28th session, 18-25 June 2015. Please complete and return the attached questionnaire by email to laura.kong@noaa.gov copied to o.necmioglu@unesco.org. Alternatively a Survey Monkey URL has been enabled with the support of the ITIC where you will be able to respond directly all the questions at https://www.surveymonkey.com/r/peaq_kamchatka2025. Our timeline for the

assessment is to have all questionnaires returned to us by 5th September 2025.

To evaluate the performance of the PTWS and to provide a benchmark of the present status of the system we seek your support and cooperation to complete this questionnaire as fully and accurately as possible. This may involve obtaining inputs from different organisations, but we believe that this effort will have direct benefits for the entire Pacific community at regional, national and local levels.

After receiving the questionnaires from the Member States, the information will be compiled and published in a report, which will be distributed to ICG/PTWS members.

We would like to stress that the objective of this assessment is to be positive and constructive, and not to be in any way critical or judgemental. We would like the report to be as open and honest as possible, and we hope that you will approach the questionnaire in this spirit. We would also welcome any other information you would like to be included in the report, such as photographs, national reports of the event or any comments on the system and areas in need of improvement.

We are confident that all Member States will understand the importance and value of conducting this assessment and we rely on your support. It is vital that we use such events to measure the performance of the PTWS in order to test it and improve it for future tsunami events with even higher destructive potential.



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CONTACT DETAILS

Country

Contact Name

Name of Organization

Address

Phone

E-mail

Name of National Tsunami Warning Centre (NTWC)

NTWC Contact Email

Name of National Disaster Management Office or equivalent (NDMO)

NDMO Contact Email



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29 July 2025 M8.8 Kamchatka earthquake and tsunami: Post-Event Performance Survey

SECTION A – INFORMATION FROM TSUNAMI SERVICE PROVIDER (To be completed by NTWC)

A.1. When did you receive the first (1st) information on the 29 July 2025 23:24 UTC M8.8 Kamchatka earthquake? Who provided this information? Please list the time (UTC) and information source.

Time (UTC):

How (Information
Source):

A.2. How did you receive the first (1st) information the 29 July 2025 23:24 UTC M8.8 Kamchatka earthquake?

- ☐ Email
- ☐ Phone
- ☐ Fax
- ☐ SMS
- ☐ GTS
- ☐ Website
- ☐ Other (please specify):

A.3. Did you receive tsunami messages from the PTWS TSP (Pacific Tsunami Warning Center)?

- ☐ Yes
- ☐ No

If the answer to question A.3. is Yes, please fill out the tables below (A.4-6) (all times in UTC)

PTWC Messages (Msg)

1: 2334 UTC, 29 Jul, Message 1	13: 1311 UTC, 30 Jul, Message 13
2: 0016 UTC, 30 Jul, Message 2	14: 1417 UTC, 30 Jul, Message 14
3: 0107 UTC, 30 Jul, Message 3	15: 1518 UTC, 30 Jul, Message 15
4: 0148 UTC, 30 Jul, Message 4	16: 1632 UTC, 30 Jul, Message 16
5: 0307 UTC, 30 Jul, Message 5	17: 1736 UTC, 30 Jul, Message 17
6: 0437 UTC, 30 Jul, Message 6	18: 1836 UTC, 30, Jul, Message 18
7: 0623 UTC, 30 Jul, Message 7	19: 2027 UTC, 30, Jul, Message 19
8: 0724 UTC, 30 Jul, Message 8	20: 2136 UTC, 30, Jul, Message 20
9: 0835 UTC, 30 Jul, Message 9	21: 2236 UTC, 30, Jul, Message 21
10: 0936 UTC, 30 Jul, Message 10	22: 2338 UTC, 30, Jul, Message 22
11: 1103 UTC, 30 Jul, Message 11	23: 0037 UTC, 31, Jul, Message 23
12: 1204 UTC, 30 Jul, Message 12	24: 0157 UTC, 31, Jul, Final Message

A.4. What time were the messages received (UTC)?

	Date	Hours	Minutes
PTWC Msg 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 4	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 5	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 6	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 7	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 8	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 9	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 10	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 11	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 12	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 13	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 14	<input type="text"/>	<input type="text"/>	<input type="text"/>

PTWC Msg 15	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 16	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 17	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 18	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 19	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 20	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 21	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 22	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 23	<input type="text"/>	<input type="text"/>	<input type="text"/>
PTWC Msg 24	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments

A.5. How were the messages received?

	GTS	Fax	Email	SMS	Website
Msg 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 18	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 19	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 20	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 21	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 22	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 23	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 24	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

A.6. Was the TSP (PTWC) website accessible?

	Yes	No
PTWC Msg 1	<input type="radio"/>	<input type="radio"/>
PTWC Msg 2	<input type="radio"/>	<input type="radio"/>
PTWC Msg 3	<input type="radio"/>	<input type="radio"/>
PTWC Msg 4	<input type="radio"/>	<input type="radio"/>
PTWC Msg 5	<input type="radio"/>	<input type="radio"/>
PTWC Msg 6	<input type="radio"/>	<input type="radio"/>
PTWC Msg 7	<input type="radio"/>	<input type="radio"/>
PTWC Msg 8	<input type="radio"/>	<input type="radio"/>
PTWC Msg 9	<input type="radio"/>	<input type="radio"/>
PTWC Msg 10	<input type="radio"/>	<input type="radio"/>
PTWC Msg 11	<input type="radio"/>	<input type="radio"/>
PTWC Msg 12	<input type="radio"/>	<input type="radio"/>
PTWC Msg 13	<input type="radio"/>	<input type="radio"/>
PTWC Msg 14	<input type="radio"/>	<input type="radio"/>
PTWC Msg 15	<input type="radio"/>	<input type="radio"/>
PTWC Msg 16	<input type="radio"/>	<input type="radio"/>
PTWC Msg 17	<input type="radio"/>	<input type="radio"/>
PTWC Msg 18	<input type="radio"/>	<input type="radio"/>
PTWC Msg 19	<input type="radio"/>	<input type="radio"/>
PTWC Msg 20	<input type="radio"/>	<input type="radio"/>
PTWC Msg 21	<input type="radio"/>	<input type="radio"/>
PTWC Msg 22	<input type="radio"/>	<input type="radio"/>
PTWC Msg 23	<input type="radio"/>	<input type="radio"/>
PTWC Msg 24	<input type="radio"/>	<input type="radio"/>

Other (please specify)

A.7. Did you receive tsunami messages from the NWPTAC TSP (Northwest Pacific Tsunami Advisory Center)?

- ☐ Yes
- ☐ No

If the answer to question A.7. is Yes, please fill out the tables below (A.8-10) (all times in UTC)

NWPTAC Messages (Msg)

1: 2345 UTC, 29 Jul, Message 1	9: 0539 UTC, 30 Jul, Message 9
2: 0049 UTC, 30 Jul, Message 2	10: 0810 UTC, 30 Jul, Message 10
3: 0119 UTC, 30 Jul, Message 3	11: 1052 UTC, 30 Jul, Message 11
4: 0144 UTC, 30 Jul, Message 4	12: 1357 UTC, 30 Jul, Message 12
5: 0218 UTC, 30 Jul, Message 5	13: 1421 UTC, 30 Jul, Message 13
6: 0255 UTC, 30 Jul, Message 6	14: 1701 UTC, 30 Jul, Message 14
7: 0351 UTC, 30 Jul, Message 7	15: 1923 UTC, 30 Jul, Final message
8: 0443 UTC, 30 Jul, Message 8	

A.8. What time were the messages received (UTC)?

	Date	Hours	Minutes
NWPTAC Msg 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 4	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 5	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 6	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 7	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 8	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 9	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 10	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 11	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 12	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 13	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 14	<input type="text"/>	<input type="text"/>	<input type="text"/>
NWPTAC Msg 15	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments

A.9. How were the messages received?

	GTS	Fax	Email	SMS	Website
Msg 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Msg 15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

A.10. Was the TSP (NWPTAC) website accessible?

	Yes	No
NWPTAC Msg 1	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 2	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 3	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 4	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 5	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 6	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 7	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 8	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 9	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 10	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 11	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 12	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 13	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 14	<input type="radio"/>	<input type="radio"/>
NWPTAC Msg 15	<input type="radio"/>	<input type="radio"/>

Other (please specify)

A.11. Did you receive tsunami-related information from other sources? If Yes, please provide the time (UTC):

- ☐ Yes
- ☐ No

If the answer to question A.11. is Yes, please fill out the tables below (A.12-14) (all times in UTC)

A.12. What time was this information received (UTC) from other sources?

	Hours	Minutes
Other Message 1	<input type="text"/>	<input type="text"/>
Other Message 2	<input type="text"/>	<input type="text"/>
Other Message 3	<input type="text"/>	<input type="text"/>
Other Message 4	<input type="text"/>	<input type="text"/>
Other Message 5	<input type="text"/>	<input type="text"/>

Additional Other Messages, or Comments

A.13. How was this information received from other sources?

	Other Message 1	Other Message 2	Other Message 3	Other Message 4	Other Message 5
GTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Email	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Website	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (Please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Other Messages, or Comments

A.14. Was the Other Infomation Source's website accessible?

	Yes	No
Other Message 1	<input type="radio"/>	<input type="radio"/>
Other Message 2	<input type="radio"/>	<input type="radio"/>
Other Message 3	<input type="radio"/>	<input type="radio"/>
Other Message 4	<input type="radio"/>	<input type="radio"/>
Other Message 5	<input type="radio"/>	<input type="radio"/>

Additional Other Messages, or Comments:



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29 July 2025 M8.8 Kamchatka earthquake and tsunami: Post-Event Performance Survey

SECTION B - NATIONAL ACTIONS

The purpose of this section is to find out what actions were taken by National Tsunami Warning Centres, including independent analysis of the tsunami event, notification of relevant organizations, issuing and cancellation of warnings.

B.1. Was any action taken BEFORE receiving the TSP PTWC messages?

☐ Yes

☐ No

If Yes, please give details. Include time (UTC) and action:

B.2. What action was taken AFTER receiving the PTWC messages? Please list times (UTC) as well as actions. Include details of organizations or government agencies contacted.

Action Taken
(Time UTC)

Action Taken
(Time UTC)

Action Taken
(Time UTC)

Action Taken
(Time UTC)

Action Taken
(Time UTC)

Action Taken
(Time UTC)

Action Taken
(Time UTC)

Action Taken
(Time UTC)

Additional Actions or
Comments:

B.3. Did your National Tsunami Warning Centre issue a tsunami warning and other tsunami related information to other agencies or organizations, and/or the Public?

- ☐ Yes
- ☐ No

Comments

If the answer to question B.3. is No, please go to Section C.

If the answer to question B.3. is Yes, please specify the type of information released, time (UTC), and to which agencies or organisations (B.4-6).

B.4. Type of Information released to agencies or organisations (Tick all that apply):

- ☐ Warning (Evacuate to high ground or inland)
- ☐ Marine Warning / Advisory (Stay out of water, away from beaches and waterways)
- ☐ Watch (Prepare, more information to follow)
- ☐ Information (No tsunami threat or no action needed at this time)

Comment

B.5. Time of Information released to agencies or organisations (please list times (UTC) as needed):

Warning	<div></div>
Marine Warning / Advisory	<div></div>
Watch	<div></div>
Information	<div></div>
Other (Please specify):	<div></div>

B.6. Information released directly to which agencies or organisations (Tick all that apply):

- ☐ National Disaster or Emergency Management Agency
- ☐ Media
- ☐ First Responder (such as Police, Fire, Ocean / Beach Safety)
- ☐ Critical Infrastructure or Utilities (Electricity, Gas, etc)
- ☐ Marine or Port Authority
- ☐ Tourism Sector - Hotels
- ☐ Health Sector - Hospitals
- ☐ Education Sector - Schools
- ☐ Civil Society (social, gender, culture, age, language, religious, and other organizations)
- ☐ Other (please specify):



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SECTION B - NATIONAL ACTIONS

B.7. How was the warning or other tsunami related information issued to agencies or organisations (Tick all that apply)?

- ☐ Phone - dedicated line
- ☐ Phone - commercial line
- ☐ SMS
- ☐ Email
- ☐ Fax
- ☐ Radio - dedicated
- ☐ Social Media (Please specify)
- ☐ Other Methods (Please specify)

Comments

B.8. Was a tsunami warning and other tsunami related information issued to the Public?

- ☐ Yes
- ☐ No

B.9. Type of Information issued to Public (Tick all that apply):

- ☐ Warning
- ☐ Marine Warning / Advisory
- ☐ Watch
- ☐ Information
- ☐ Other (Please specify)

Comments

B.10. Time of Information issued to Public (please list times (UTC) as needed):

Warning

Marine Warning /
Advisory

Watch

Information

Other (Please specify):

B.11. Authority issuing information to Public:

- ☐ National Tsunami Warning Center (NTWC)
- ☐ National Disaster Management Office (NDMO), National Emergency Management Agency (NEMA), or equivalent
- ☐ Local Disaster Management Office (DMO), Emergency Management Agency (EMA), or equivalent
- ☐ Other (Please specify)

Comments:

B.12. Was the decision to issue or not to issue a tsunami warning to the Public based on information from the TSP (PTWC), from Other Sources, and/or determined by your National Tsunami Warning Centre (Tick all that apply)?

- ☐ TSP PTWC
- ☐ National TWC
- ☐ Other Sources (Please specify)

Comments:

B.13. If a Tsunami Warning or Marine Warning / Advisory was issued to the Public, was a tsunami arrival time or wave height forecast provided?

- ☐ Yes, Tsunami Arrival Time forecast
- ☐ Yes, Tsunami Wave Height forecast
- ☐ Yes, both a Tsunami Arrival Time and Wave Height forecast
- ☐ No Arrival Time or Wave Height forecast

Comments

B.14. How was the warning/information communicated to the Public (Tick all that apply)?

- ☐ Telephone
- ☐ SMS
- ☐ Cell/mobile phone broadcast
- ☐ Radio
- ☐ TV
- ☐ Twitter
- ☐ Facebook
- ☐ RSS
- ☐ Websites
- ☐ Sirens
- ☐ Public announcement systems
- ☐ Public call centre
- ☐ Police
- ☐ Door-to-door announcements
- ☐ Other (Please specify), and Comments

B.15. Who is responsible for communicating with the Media?

- ☐ NTWC/TWFP
- ☐ NDMO
- ☐ Both NTWC/TWFP and NDMO
- ☐ Local / Regional DMO
- ☐ Other (Please specify)

Comments

B.16. Did your National Tsunami Warning Centre or Disaster Management Office send tsunami warning or other tsunami related information to the National Media?

- ☐ Yes
- ☐ No

Comments:

If the answer to question B.16. is Yes, please specify:

B.17. Method of communication used to send information to National Media (Tick all that apply)

- ☐ Phone
- ☐ Email
- ☐ Fax
- ☐ SMS
- ☐ Other (please specify):

B.18. Type of electronic media used for Infomation broadcast by National Media (Tick all that apply)

- ☐ TV
- ☐ Radio
- ☐ Website
- ☐ Social Media
- ☐ Other (please specify):

B.19. If TV or Radio used, please list the TV and radio stations:

B.20. Method of information broadcast by National Media (Tick all that apply)

- ☐ Programme Interruption (TV, radio)
- ☐ Scrolling/running text (TV)
- ☐ Other (please specify)

B.21. Time (UTC) of first broadcast by National Media

B.22. If a Warning or Marine Warning/Advisory was issued, at what time was it canceled (UTC)?

Time (UTC):

B.23. What was the reason for the cancellation?

- ☐ No damaging waves
- ☐ Other (Please specify)

Comments:

B.24. How was this information communicated to the Public? (Tick all that apply)?

- ☐ Telephone
- ☐ SMS
- ☐ Cell/mobile phone broadcast
- ☐ Radio
- ☐ TV
- ☐ Twitter
- ☐ Facebook
- ☐ RSS
- ☐ Websites
- ☐ Sirens
- ☐ Public announcement systems
- ☐ Public call centre
- ☐ Police
- ☐ Door-to-door announcements
- ☐ Other (please specify):

B.25. Were there any communication problems with distributing the tsunami warning or cancellation information? (e.g., mobile phone network or websites overload or broken, people not answering phones, etc).

- ☐ Yes
- ☐ No

If Yes, please provide details or Comments:



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SECTION C - NATIONAL RESPONSE

The purpose of this section is to find out what the national and local response was to the event after the Tsunami Warning or Marine Warning / Advisory had been issued by the National Tsunami Warning Centre.

C.1. Were any actions taken by the National Disaster Management Office (NDMO, or equivalent national response organization)?

☐ Yes

☐ No

C.2. If the answer to question C.1. is Yes, what actions were taken? Please list times (UTC) as well as actions. Include details of organizations or government agencies.

Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Comments:	<input type="text"/>

C.3. Did the National Disaster Management Office (or equivalent national response organization) maintain communication with the National Tsunami Warning Centre throughout the event?

☐ Yes

☐ No

C.4. If the answer to question C.3. is Yes, what information was shared (Tick all the apply):

☐ Tsunami Source information (earthquake origin time, location, magnitude, depth)

☐ Tsunami Wave Information (wave forecast arrival time and/or amplitude), wave observations

☐ Alert level (warning, marine warning, watch, information, etc)

☐ Evacuation guidance or Evacuation areas reports

☐ Safe-to-return or All-Clear guidance or reports

☐ Other (please specify), Comments:

C.5. Did the National Disaster Management Office (or equivalent national response organization) maintain communication with Local or Regional disaster management organisations (or equivalent)?

☐ Yes

☐ No

Comments

C.6. If the answer to question C.5. is Yes, what information was provided by the NDMO (or equivalent national response organization) (Tick all the apply):

☐ Tsunami Source information (earthquake origin time, location, magnitude, depth)

☐ Tsunami Wave Information (wave forecast arrival time and/or amplitude), wave observations

☐ Alert level (warning, marine warning, watch, information, etc)

☐ Evacuation guidance or Evacuation areas reports

☐ Safe-to-return or All-Clear guidance or reports

☐ Other (please specify):

C.7. Were any actions taken by the Local or Regional disaster management offices (or equivalent)?

- ☐ Yes
- ☐ No

C.8. If the answer to question C.7. is Yes, what actions were taken? Please list times (UTC) and actions. Include details of organizations or government agencies.

Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Action Taken (Time UTC)	<input type="text"/>
Comments:	<input type="text"/>

C.9. Were any areas evacuated?

- ☐ Yes
- ☐ No

C.10. If the answer to question C.9. is Yes, provide details on the areas evacuated, time (UTC), and estimated number of people evacuated.

Area evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Area Evacuated
Time (UTC)
Nbr of people

Comments:

C.11. Were Tsunami Inundation Maps available for evacuated areas?

- ☐ Yes
- ☐ No

Comments:

C.12. Were Tsunami Evacuation Maps available for evacuated areas?

☐ Yes

☐ No

Comments:

C.13. If an evacuation occurred, did the process happen smoothly?

☐ Yes

☐ No

If No, please provide details of problems encountered:

C.14. Did people in some areas self-evacuate before a Warning was issued?

☐ Yes

☐ No

☐ None of the above

Comments

C.15. If the answer to question C.14. is Yes, please provide details on the area, time (UTC), and estimated number of people who self-evacuated.

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Area Self-evacuated
Time (UTC)
Nbr of people

Comments:



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SECTION D - MONITORING AND MODELLING

D.1. Were sea level data monitored during the event?

- ☐ No
- ☐ Yes, all Pacific Stations
- ☐ Yes, some Pacific Stations

Comment

D.2. How where the stations monitored? (Tick all that apply)

- ☐ GTS using NTWC tools
- ☐ Tide Tool
- ☐ IOC Sea Level Station Monitoring Facility
- ☐ Other Sources or Tools (please specify):

D.3. If the answer to question D.3. is No, does your National Tsunami Warning Centre know how to access sea level data over the GTS, on the IOC Sea Level Station Monitoring Facility, or by Tide Tool?

	Yes	No
GTS	<input type="radio"/>	<input type="radio"/>
IOC Sea Level Facility	<input type="radio"/>	<input type="radio"/>
Tide Tool	<input type="radio"/>	<input type="radio"/>

Comments:

D.4. Did your National Tsunami Warning Centre use any numerical model tsunami scenarios during the event (deep-ocean propagation and/or coastal inundation models)?

☐ Yes

☐ No

If Yes, please describe tools or software, and how they were used:

A large empty rectangular box with a thin black border, intended for a user to provide details about the tools or software used for tsunami modeling. A small cursor icon is visible in the bottom right corner of the box.



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SECTION E - COMMUNITY PREPAREDNESS

E.1. From 0 (none) to 4 (very high), please rank the scientifically-assessed level of tsunami hazard, the level of community awareness of that hazard, and the level of pre-existing community tsunami preparedness in 5 of the main communities affected by this event.

Please list the names of the communities:

Community 1:	<input type="text"/>
Community 2:	<input type="text"/>
Community 3:	<input type="text"/>
Community 4:	<input type="text"/>
Community 5:	<input type="text"/>

E.2. Scientifically-assessed Level of Tsunami Hazard

	0	1	2	3	4
Community 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E.3. Level of Community Awareness

	0	1	2	3	4
Community 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E.4. Level of Pre-existing Community Tsunami Preparedness

	0	1	2	3	4
Community 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Community 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E.5. Were there any Tsunami Preparedness activities in these Communities, or nationally, prior to the event?

☐ Yes

☐ No

Comments:

E.6. If the answer to question E.5. is Yes, what Preparedness activities were conducted? Please provide dates in Comments (Tick all the apply):

☐ Tsunami Education in school

☐ Participatory evacuation planning

☐ Evacuation map made

☐ Safe Assembly Area or Evacuation facilities identified

☐ Tsunami Exercise

☐ Other (Please specify)

Other (Please specify), Dates of activities, and Comments

E.7. Has there been any government support with regards to the following prior to the event (Tick all the apply)?

- ☐ Tsunami Signage
- ☐ Vertical Evacuation Sites and Procedures
- ☐ Hazard Maps
- ☐ Evacuation Maps
- ☐ Evacuation Route Mapping
- ☐ Other (please specify)



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SECTION F – CAPACITY DEVELOPMENT REQUIREMENTS

Capacity development is a fundamental component of all IOC UNESCO programmes. To assist us to prioritise and plan our future training activities within our limited resources, please indicate the training needs you consider to be a high priority for your country.

F.1. What training events or other assistance from IOC would be useful for your NTWC, NDMO, and other response organizations in the next 12 months? (Tick all that apply, and provide your priority)

- ☐ Seismic training
- ☐ Sea Level training
- ☐ Risk Assessment training
- ☐ Standard Operating Procedures training
- ☐ Inundation Modelling training
- ☐ Evacuation Mapping training
- ☐ Community Awareness and Preparedness training
- ☐ Exercises and Drills training
- ☐ Media Awareness training
- ☐ Other support requested (Please specify).
If multiple supports are ticked, please list your priority order.



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SECTION G - OTHER INFORMATION

G.1. Please feel free to provide any further information you would like to be included in the report. This could include comments which you can type below, or attachments such as photographs, or any other documents you consider relevant. We would particularly welcome copies of any national post-event assessment reports that are available.

Please send attachments to the PTWS Technical Secretary or the ITIC Director.



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Thank you for participating in 29 July 2025 M8.8 Kamchatka earthquake and tsunami: Post-Event Performance Survey.

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

Bernardo Aliaga (b.aliaga@unesco.org), UNESCO-IOC TSR Head

Laura Kong (laura.kong@noaa.gov), ITIC Director

Ocal Necmioglu (o.necmioglu@unesco.org), ICG/PTWS Technical Secretary

Click "Done" to submit your survey.