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### 3.6.3 STATUS OF OTHER ICGs (ICG/PTWS)

WANG Dakui  
Chair of ICG/PTWS

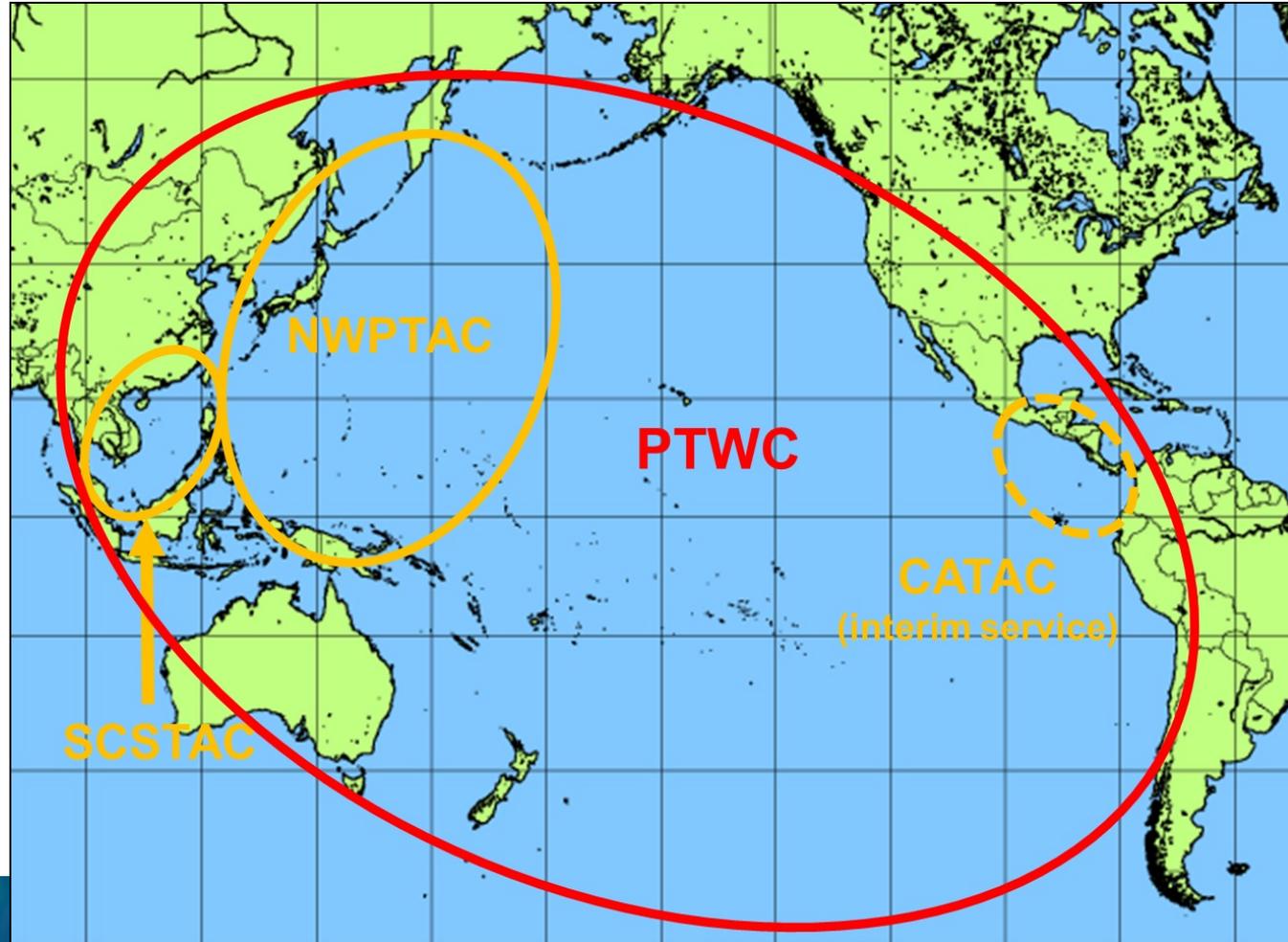


# Tsunami Service Providers in the Pacific



## ➤ Four Tsunami Service Providers

- **Pacific Tsunami Warning Center (PTWC)** operated by USA
- **Northwest Pacific Tsunami Advisory Center (NWPTAC)** operated by Japan
- **South China Sea Tsunami Advisory Center (SCSTAC)** operated by China
- **Central America Tsunami Warning Center (CATAC)** operated by Nicaragua
- The CATAC is fully operated (24hours/7days) on the interim service.





24  
Member  
States;

62  
delegates;

32  
Observers;



# 9<sup>th</sup> ICG/PTWS – IUGG JTC Joint Tsunami Workshop

## 60<sup>th</sup> Anniversary of the ICG/PTWS - Past and Future -



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- 
- 1 April 2025 (Online)
  - Aims
    - 1) Recognition of contributions of 60 years of PTWS
    - 2) Prospective of the future of PTWS
    - 3) Tsunami DRR within the context of the IODTP – lessons from 60 years
  - 7 April 2025 (Hybrid)
  - Aims
    - Guide 5-year research and development strategy for detection, monitoring and forecasting through:
      - 1) Investigating challenges to achieving Decade forecasting goals
      - 2) Exploring emergent data technologies to achieve Decade forecasting goals
      - 3) Exploring emergent forecasting technologies to achieve Decade forecasting goals
      - 4) Exploring impact-based forecasting including challenges faced when forecasting inundation and time-dependence



## DRAFT RECOMMENDATIONS

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**Endorses** the conduct the Pacific Tsunami Preparedness Capacity Assessment as the first systemwide measurement of the existing capacities to inform next efforts to improve the PTWS under the kind support of ESCAP.

**Recommends** the provisional approval of the Tsunami Ready Equivalency Guidance, as described in IOC ICG/PTWS-XXXI Draft Document (Agenda 4.2),

**Decides** to modify the current Terms of Reference of the Group to establish a permanent structure comprising three Vice-Chairs.

**Welcomed** the organization of the 9th IOC/ICG/PTWS–IUGG Joint Tsunami Commission (JTC) Technical Workshop on during the ICG/PTWS-XXXI on the "60th Anniversary of the ICG/PTWS – Past and Future", with Part II in-person on 7 April 2025, and Part I as a webinar on 1 April 2025.

**Decides** to carry out the twelfth Exercise Pacific Wave in 2026 (PacWave 26) in the months of September through to November 2026 to support International Disaster Risk Reduction Day (13 October) and World Tsunami Awareness Day (5 November), as reflected in the Terms of Reference.



## DRAFT RECOMMENDATIONS

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**Notes** Argentina's participation to the ICG/PTWS XXXI as an Observer,

**Notes** with satisfaction active participation of Argentina in the PacWave24 as the Coordinator of the NAVAREA VI for the purposes of testing tsunami maritime safety product dissemination,

**Encourages** Argentina to actively participate in the future PacWave exercises with respect to its Search and Rescue (SAR) and NAVAREA VI coordination responsibilities,

**Notes** the recommendation of the ICG/CARIBE-EWS XVII on the consideration of CATAC as a TSP in its XVIII Session in May 2025 to enable the IOC Assembly to consider the final admission of CATAC as TSP in June 2025 (Recommendation ICG/CARIBE-EWS-XVII.8),

**Accepts with appreciation** the kind offer of Ecuador to host the 32nd Session of the ICG/PTWS in 2027 in Ecuador. Specific dates will be determined at a later stage,

**Notes with appreciation** the intention of Costa Rica to host the 33rd Session of the ICG/PTWS in 2029 in Costa Rica, to be confirmed at the 32nd Session of the ICG/PTWS,

**Congratulates** Chair Mr Dakui Wang (China) and Vice Chairs Ms Lara Bland (New Zealand), Ms Mylene Villegas (Philippines), and Mr Levu Antfalo (Vanuatu) on their election to leadership of the PTWS.



## Related Events to the ICG/PTWS since February 2024

Date	Event	Venue
26 - 27 March 2024	ICG/PTWS Steering Committee Meeting	Online
10 May 2024	Seventh Meeting of the ICG/PTWS Regional Working Group on Tsunami Warning and Mitigation System in the Central America Region (ICG/PTWS WG-CA-VII)	Managua, Nicaragua
13 – 14 May 2024	Pacific Island Country and Territories (PICT) Tsunami Ready Workshops	Port Vila, Vanuatu
14 – 17 May 2024	Expert Meeting on Tsunami Sources, Hazards, Risk and Uncertainties Associated with Vanuatu, San Cristobal and New Britain Subduction Zones	Port Vila, Vanuatu
12 July 2024	PTWS Working Group 3 Task Team Tsunami Ready Meeting	Online
30 – 31 July 2024	Solomon Islands Tsunami Ready Workshop	Solomon Island
19-30 August 2024	ITIC Training Programme on Tsunami Early Warning Systems and the PTWC Enhanced Products, Tsunami Evacuation Planning and Tsunami Ready Programme (ITP-TEWS-Chile)	Valparaiso, Chile
1 September – 30 November 2024	Exercise Pacific Wave 2024 (PacWave24)	
16 – 20 September 2024	ICG/PTWS Steering Committee Meeting	Honolulu, Hawaii, USA
07 – 08 November 2024	Twelfth Meeting of the ICG/PTWS Regional Working Group on Tsunami Warning and Mitigation System in the South China Sea Region (ICG/PTWS-WG/SCS-XII)	Jakarta, Indonesia

# IOC EC 57<sup>th</sup> Session (25 June to 28 June 2024)



ICG and	Session	Reporter
ICG/CARIBE-EWS	XVII Session	Dr. Regina Browne on behalf the Chair
ICG/NEAMTWS	XVIII Session	Dr. Alessandro Amato
ICG/PTWS	XXX Session	Mr. Yuji Nishimae
TOWS-WG	XVII Session	Dr. Srinivasa Kumar Tummala



Fifty-Seventh Session of the Executive Council  
Paris, 25–28 June 2024

**Report of the ICG/NEAMTWS  
(2023-2024)**

Alessandro Amato  
Chair  
ICG/NEAMTWS

Amr Hamouda and Ignacio Aguirre Ayerbe  
(vice Chair)

Denis Chang Seng  
Technical Secretary

**ICG/CARIBE-EWS XVII**

**Gérard Métayer  
ICG/CARIBE-EWS Chair  
June 27, 2024**

57th Executive Council

57<sup>th</sup> Session of the Executive Council, Paris, 25-28 June 2024

**Agenda 3.2.1.2  
Global Coordination  
of Warning and  
Mitigation Systems  
for Ocean Hazards**

Dr. Srinivasa Kumar Tummala  
Chair, TOWS-WG and Vice-Chair, IOC

Acknowledgements: Bernardo Aliaga, IOC

57<sup>th</sup> Session of the IOC Executive Council  
25 - 28 June 2024

**Report from the ICG/PTWS**

NISHIMAE Yuji  
ICG/PTWS Chair

# Start of the official full functional operation of the Central America Tsunami Advisory Center (CATAC)



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## Recommendation ICG/PTWS-XXX-6

**Decides** to admit the start of the official full functional operations of CATAC, starting after the IOC governing body meeting in 2024, with the specific starting date to be decided after the coordination with the ICG/CARIBE-EWS

## Recommendation ICG/CARIBE-EWS-XVII.8

- **Recommends** CATAC to continue with the implementation of EEW methods for the acceleration and improvement of the tsunami warning for Central America.
- **Recommends** the use of additional methods for the transmission of CATAC's products to its users.
- **Recommends** that CATAC continues full functionality in an interim manner to be able to support the National Tsunami Warning Centers (NTWCs), Tsunami Warning Focal Points 18 (TWFPs), and emergency management authorities of Central America in addressing those challenges,
- **Further recommends** the consideration of CATAC as a TSP in its XVIII Session in 2025 to enable the IOC Assembly to consider the final admission of CATAC as TSP in June 2025



# ICG/PTWS Steering Committee Meeting



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Date: 16 - 17 September TT and WG meeting  
18 - 20 September SC meeting  
Venue; Honolulu, Hawaii, USA

<b>INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (of UNESCO)-</b>	
<b>Steering Committee Meeting -</b>	
<b>of the Intergovernmental Coordination Group -</b>	
<b>for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS)-</b>	
•	
• <i>NOAA Facility at Pier 38, 18 - 19 September 2024<sup>1</sup></i>	
• <i>Double Tree by Hilton Alana Waikiki Beach, 20 September 2024<sup>2</sup></i>	
• <b>PROVISIONAL AGENDA (V7)-</b>	
1. → Welcome and Opening -	8. → Policy Matters <sup>3</sup>
2. → Adoption of Agenda -	→ 8.1. Tsunami Detection, Warning and Dissemination <sup>4</sup>
3. → Review of Action Items from the ICG/PTWS-XXX session <sup>5</sup>	→ 8.1.1. Sea Level Observations <sup>6</sup>
4. → Chair's Report on the TOWS-WG XVII session and the IOC 57 <sup>th</sup> EC <sup>7</sup>	→ 8.1.2. SMART Cable <sup>8</sup>
5. → Report of Tsunami Service Providers <sup>9</sup>	→ 8.1.3. <u>SoP</u> of Tsunami Generated by Volcanoes and <u>Meteo</u> -tsunami <sup>10</sup>
→ 5.1 PTWC <sup>11</sup>	→ 8.1.4. Common Format for Tsunami Products from TSPs <sup>12</sup>
→ 5.2 NWPTAC <sup>13</sup>	→ 8.1.5. Expansion of the ICG/PTWS ESZ <sup>14</sup>
→ 5.3 SCSTAC <sup>15</sup>	8. → 8.2. Tsunami Disaster Preparedness <sup>16</sup>
→ 5.4 CATAC <sup>17</sup>	→ 8.2.1. Tsunami Ready Recognition Program <sup>18</sup>
6. → Report of the ITIC <sup>19</sup>	→ 8.2.2. Minimum NTWC Competency Framework <sup>20</sup>
7. → Report of WGs <sup>21</sup>	→ 8.2.3. Pacific Wave 2024 <sup>22</sup>
→ 7.1 Working Group 1 - Understanding Tsunami Risk <sup>23</sup>	→ 8.3. Tsunami Service Providers' Products and Messages <sup>24</sup>
→ 7.2 Working Group 2 - Tsunami Detection, Warning and Dissemination <sup>25</sup>	→ 8.3.1. Users' Guide <sup>26</sup>
→ 7.3 Working Group 3 - Disaster Risk Management and Preparedness <sup>27</sup>	→ 8.3.2. Cease Telefax Transmission <sup>28</sup>
→ 7.4 Regional Working Group on Tsunami Warning and Mitigation System on the Central American Pacific Coast <sup>29</sup>	→ 8.3.3. Tsunami Threat Message of the PTWC <sup>30</sup>
→ 7.5 Regional Working Group on Tsunami Warning and Mitigation System in the South East Pacific Region <sup>31</sup>	→ 8.3.4. Termination of Notification of Regular Communication Test from TSPs by Circular Letter <sup>32</sup>
→ 7.6 Regional Working Group on Tsunami Warning and Mitigation System in the South China Sea Region <sup>33</sup>	→ 8.3.5. Provision of special tsunami maritime safety products to the NAVAREA coordinators <sup>34</sup>
→ 7.7 Pacific Island Countries and Territories Regional Working Group on Tsunami Warning and Mitigation System <sup>35</sup>	→ 8.3.6. Status of the CATAC <sup>35</sup>
	→ 8.4. UN Ocean Decade Tsunami Program <sup>36</sup>
	→ 8.5. 2nd Tsunami Global Symposium <sup>37</sup>
	9. → UNESCAP Capacity Assessment Project <sup>38</sup>
	10. ICG/PTWS-XXXI Session <sup>39</sup>
	→ 10.1. Expected Date of the ICG/PTWS-XXXI session <sup>40</sup>
	→ 10.2. Draft Agenda of the ICG/PTWS-XXXI session <sup>41</sup>
	→ 10.3. ICG/PTWS 60 year anniversary workshop <sup>42</sup>
	11. Any Other Business <sup>43</sup>
	12. Special Lecture <sup>44</sup>
	→ Nankai Trough Earthquake Information presented by the JMA <sup>45</sup>



UNESCO-IOC ICG/PTWS Steering Committee  
18-20 September 2024, Honolulu, Hawaii, USA

# IOC Circular Letter No 2999 and the Exercise Manual (IOC Technical Series, 191)



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION  
COMMISSION Océanographique INTERGOUVERNEMENTALE  
COMISION OCEANOGRÁFICA INTERGUBERNAMENTAL  
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ  
اللجنة الدولية الحكومية لعلوم المحيطات  
政府间海洋学委员会

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**IOC Circular Letter No 2999**  
(Available in English only)

IOC/VH/ON/ah  
28 May 2024

To : ICG/PTWS Tsunami Warning Focal Points (TWFP)  
ICG/PTWS Tsunami National Contacts (TNC)  
ICG/PTWS Chair and Vice-Chairs

C.c. : Official National Coordinating Bodies for liaison with IOC (IOC Member States)  
Permanent Delegates/Observer Missions to UNESCO, and  
National Commissions for UNESCO of IOC Member States  
Directors of UNESCO and IOC Regional Offices in the Asia/Pacific Region  
Regional Organizations cooperating with UNESCO-IOC  
Director, Pacific Tsunami Warning Center (PTWC)  
Director, Northwest Pacific Tsunami Advisory Center (NWPTAC)  
Director, International Tsunami Information Center (ITIC)  
Head, Tsunami Warning Division, China National Marine Environmental  
Forecasting Center and South China Sea Tsunami Advisory Center (SCSTAC)  
Coordinator, Central America Tsunami Advisory Center (CATAC)

**Subject: Pacific Tsunami Warning and Mitigation System (PTWS) Exercise Pacific Wave 2024 (PacWave24), September–November 2024, including live Tsunami Service Provider Communication Test on 5 November 2024 at 0000 UTC**

At its 30<sup>th</sup> session (ICG/PTWS-XXX, Nuku'alofa, Kingdom of Tonga, 11–15 September 2023), the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System approved the conduct of Exercise Pacific Wave 2024 (PacWave24) in the months of September through November 2024 to support [International Disaster Risk Reduction Day](#) (13 October) and [World Tsunami Awareness Day](#) (5 November).

PacWave24 will test PTWS Tsunami Service Provider (TSP), and country operational plans and procedures to respond to a destructive tsunami. PacWave24 is the eleventh in a series of PacWave exercises that have been conducted biennially since 2006. The Exercise Manual ([IOC Technical Series 191](#)) is attached. For PacWave24, all exercise information, including resources, manual, post-exercise evaluation, and the summary report, can be found on the PacWave24 exercise web site at [www.pacwave.info](http://www.pacwave.info).

Recalling IOC Decision A-32/3.4.1 instructing regional Intergovernmental Coordination Group (ICGs) TSPs, in collaboration with NAVAREA operators of the International Hydrographic Organization (IHO), to test tsunami maritime safety products in 2023/24 with the goal to operationally implement

## Intergovernmental Oceanographic Commission Technical Series



## EXERCISE PACIFIC WAVE 2024 September–November 2024

### Volume 1 Exercise Manual



**PacWave24**

UNESCO

191

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<b>ANNEXES</b>	
1. TSUNAMI SERVICE PROVIDER COMMUNICATIONS TEST MESSAGES Pacific Tsunami Warning Center (PTWC) Northwest Pacific Tsunami Advisory Center (NWPTAC) South China Sea Tsunami Advisory Center (SCSTAC) Central America Tsunami Advisory Center (CATAC)	

# Timeline Milestones (1)



## KEY DATES

31 August 2024	Deadline for PTWS Regional Working Groups to inform TSPs if products needed, copied to ITIC
1 September – 30 November 2024	PacWave24 Member State national exercise
2 weeks before Regional Exercise (5 Nov.)	TSP products available on regional exercise webpage
5 November 2024 (0000 UTC)	Live TSP Communications Test
5 November 2024 (0100 UTC)	Live NAVAREA Coordinators Communication Test from PTWC through concerned NTWC
4 November 2024	Pacific Island Countries and Territories Regional Exercise
21 November 2024	South East Pacific Regional Exercise



# Timeline Milestones (2)



## KEY DATES

15 December 2024	Deadline for Member States to complete and submit online PacWave24 Post-Exercise Evaluation Surveys for: <ul style="list-style-type: none"><li>• Live TSP Communication Test</li><li>• Live NAVAREA Coordinators Communication Test</li><li>• National Exercise</li><li>• Regional Exercise</li></ul>
15 December 2024	Deadline for Submission of Regional Exercise Reports. <ul style="list-style-type: none"><li>• PICT Regional Exercise</li><li>• SEP Regional Exercise</li></ul>
10 days prior to ICG/PTWS-XXXI ( <i>April 2025</i> )	Draft PacWave24 Summary Report shared with Member States
30 June 2025	Final PacWave24 Summary Report published and posted at <a href="http://www.pacwave.info/">http://www.pacwave.info/</a>

# 2<sup>nd</sup> Global Tsunami Symposium (11 – 14 November 2024)



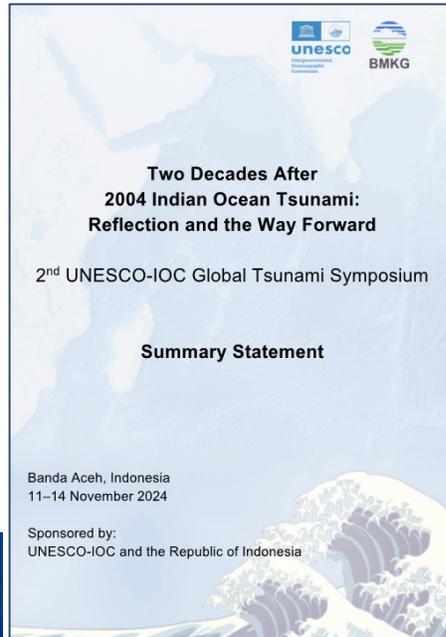
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## Participants related to the ICG/PTWS

- Mr. Yuji Nishimae (Chair)
- Dr. Dakui Wang (Vice-Chair)
- Dr. Charles McCreely (PTWC Director)
- Dr. Laura Kong (ITIC Director)
- Dr. Ocal Necmioglu (Technical Secretary)



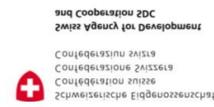
## Summary Statement



## Banda Aceh Statement

Global Tsunami Warning and Mitigation: Building Sustainability for the next decade through Transformation and Innovation. UNESCO and its partners call on States and civil society to drastically step up their investments and efforts to strengthen Tsunami Early Warning Systems and achieve 100% of Tsunami Ready Communities across the world by 2030.

# PTWS Tsunami Preparedness Capacity Assessment (ESCAP Phase II)

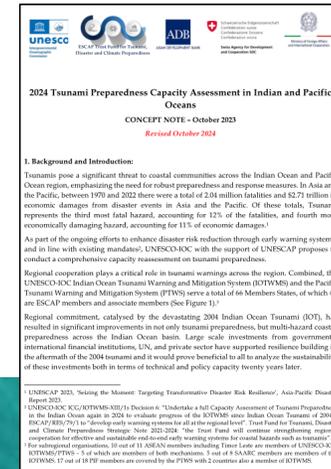


## The key objectives of this assessment have been identified as follows:

1. To evaluate the existing capacity of the UNESCO-IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS) (Phase I) and Pacific Tsunami Warning and Mitigation System (PTWS) (Phase II) and highlight the progress made since 2004 IOT and subsequent assessments.
2. To identify specific gaps and capacity development requirements at regional and national levels for strengthening the technical and policy aspects of the tsunami warning and mitigation systems in the region.
3. To provide recommendations for the next strategic phase of ESCAP's Trust Fund for Tsunami Disaster and Climate Preparedness, aiming to address the identified gaps through regional cooperation and mainstreaming science.

## Output of the assessment

	<u>Phase one</u> [November 2023-December 2024]	<u>Phase two</u> [September 2024-September 2025]
Technical	1.A_ Technical Capacity Assessment for IOTWMS 1.B_ IOTWMS assessment summary and comparative analysis	2.A_ Technical Capacity Assessment for PTWS 2.B_ PTWS assessment summary and comparative analysis
Policy	3.A/3.B_ Tsunami preparedness recommendations for ASEAN, SAARC, BIMSTEC policymakers <sup>8</sup>	3.C_ Tsunami preparedness recommendations for PIF policymakers

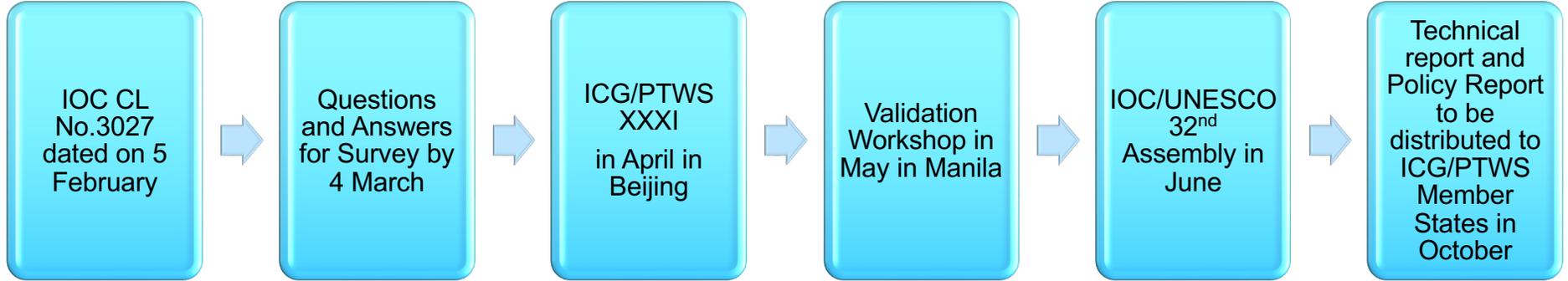


# ESCAP Tsunami Preparedness Capacity Assessment (Timeline)



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COMMISSION OCEANOGRAPHIQUE INTERGOUVERNEMENTALE  
COMISSÃO OCEANOGRÁFICA INTERGOVERNAMENTAL  
مجلس الأحياء البحرية الدولي

IOC Circular Letter No 3027  
(Available in English only)

To: ICG/PTWS National Contacts (TNC)  
ICG/PTWS National Tsunami Warning Centres (NTWCs)  
ICG/PTWS Tsunami Warning Focal Points (TWFP)  
ICG/PTWS Chair and Vice-Chairs

Cc: Official National Coordinating Bodies for liaison with IOC  
Permanent Observer Offices to UNESCO and  
National Commissions for UNESCO of ICG/PTWS  
Division of UNESCO and IOC Regional Offices in Asia/Pacific Region  
Permanent Observers to ICG/PTWS  
Regional Organizations cooperating with UNESCO-IOC  
United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)

**Subject: Survey to assess tsunami preparedness capacities in the Pacific Ocean**

As part of the ongoing efforts to improve disaster risk reduction through early warning systems and to live with disasters more safely, UNESCO-IOC, with the support of the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), proposes to conduct a comprehensive assessment of tsunami preparedness capacity, focusing on the Indian Ocean Tsunami Warning and Mitigation System (ITWMS) in Phase I and Pacific Tsunami Warning and Mitigation System (PTWS) in Phase II. Initial communication on this assessment was made to the Tsunami National Contacts (TNC) of ICG/PTWS via a letter from the ICG/PTWS Chair dated 4 November 2024 (Annex 1), accompanied by a concept note on the assessment in the Indian and Pacific Oceans (Annex 2). Phase I in the Indian Ocean was completed in 2024, and Phase II will begin with an online survey dedicated to the Pacific Ocean, available at this link: <https://www.unesco.org/ptws/2024-capacity-assessment-2025>. Information on the survey and the questions it contains can be found in Annex III. If access to the above link is not possible, the response to the survey can be sent to the Secretariat using the Annex 3.

This capacity assessment aligns with the United Nations Secretary-General's Early Warnings for All (EW4All) initiative, with a focus on the importance of early warning systems for coastal habitats, and the need to develop the capacity of these systems to reduce the loss of lives and livelihoods even elsewhere. The assessment also aligns with the goals of the United Nations Decade of Ocean Science for Sustainable Development 2021–2030, UNESCO-IOC Tsunami Programme, UNESCO-IOC Tsunami Ready Recognition Programme, 2020 Agenda for Sustainable Development, and the Sendai Framework on Disaster Risk Reduction (DRR).

2025 UNESCO-IOC/ICG/PTWS National Report on Capacity Assessment of Tsunami Preparedness

SURVEY INFORMATION AND QUESTIONS

Background information on the Tsunami Preparedness Capacity Assessment in the Pacific Ocean is provided in the IOC Letter 24 113 as provided as an Annex to the CL 3027. Below is an overall description of the survey provided together with the set of survey questions prepared for this assessment. The link to the survey is also provided in the CL 3027. While the questions of the survey are provided both in English and Spanish, responses would be required only in English. To better facilitate the analysis and evaluation of the survey data and results, we thank you in advance for your kind understanding on this matter.

The Tsunami National Contacts (TNCs) are requested to coordinate the completion of the online survey, in consultation with other national stakeholders involved in on-to-and tsunami early warning and mitigation within the country. Considering the importance of this capacity, all Member States are requested to complete the survey by **04 March 2025 EOB (UTC)**.

Part	Topic of the Survey	Stakeholder Inputs
I	<b>Basic Information:</b> TNC/NTWC/TWFP contact details	Tsunami National Contact
II	<b>Risk Assessment &amp; Reduction:</b> Hazard assessment, Risk Assessment, Policies, Plans, Guidelines	Inputs to be obtained from the Disaster Management Office and/or any other agency responsible for Hazard/Risk Assessment in the Country. Inputs to be obtained from the National Tsunami Warning Centre and/or other agency responsible for generation and dissemination of tsunami early warnings within the country.
III	<b>Detection, Warning and Dissemination</b>	Inputs to be obtained from the Disaster Management Office and/or other agencies responsible for public awareness, preparedness, and response in the country.
IV	<b>Public Awareness, Preparedness &amp; Response:</b> DQAs, Evaluation, Tsunami exercises, Public Awareness	Inputs to be obtained from the Tsunami National Contact, Tsunami Ready Focal Point (TRFP), if identified, and/or other agencies responsible for the TRFP or any other similar initiative in the country.
V	<b>Tsunami Ready Recognition Programme (TRRP)</b>	
VI	<b>Narrative:</b> Important recent developments and summary of future plans.	Tsunami National Contact

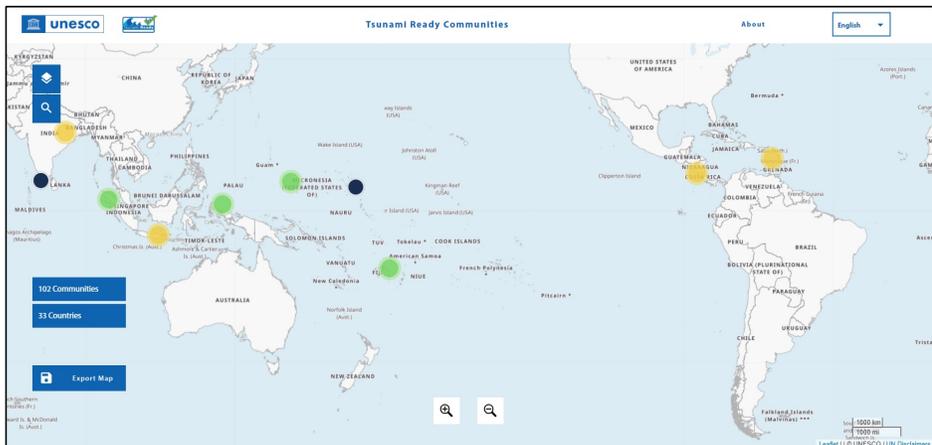
A preliminary compilation of the survey results will be presented

Steering Committee members will attend

Draft Technical Report and its Summary will be made available

Technical report and Policy Report to be distributed to ICG/PTWS Member States in October

# Promoting for the IOC Tsunami Ready Recognition Programme



TSUNAMI READY INDICATORS	
<b>I</b>	<b>ASSESSMENT (ASSESS)</b>
1	<b>ASSESS-1.</b> Tsunami hazard zones are mapped and designated.
2	<b>ASSESS-2.</b> The number of people at risk in the tsunami hazard zone is estimated.
3	<b>ASSESS-3.</b> Economic, infrastructural, political, and social resources are identified.
<b>II</b>	<b>PREPAREDNESS (PREP)</b>
4	<b>PREP-1.</b> Easily understood tsunami evacuation maps are approved.
5	<b>PREP-2.</b> Tsunami information including signage is publicly displayed.
6	<b>PREP-3.</b> Outreach and public awareness and education resources are available and distributed.
7	<b>PREP-4.</b> Outreach or educational activities are held at least three times a year.
8	<b>PREP-5.</b> A community tsunami exercise is conducted at least every two years.
<b>III</b>	<b>RESPONSE (RESP)</b>
9	<b>RESP-1.</b> A community tsunami emergency response plan is approved.
10	<b>RESP-2.</b> The capacity to manage emergency response operations during a tsunami is in place.
11	<b>RESP-3.</b> Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place.
12	<b>RESP-4.</b> Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place.

GLOBAL OVERVIEW OF UNESCO-IOC TSUNAMI READY RECOGNIZED COMMUNITIES												
	PL	EOI	OG	TR	RV	RD	RIP	RN	RDE	TOTAL # OF COMMUNITIES	IN # MEMBER STATES	OF WHICH # ARE SIDS
CARIBE-EWS	2	2	0	4	6	4	0	0	9	23	16	10
IOTWMS	0	0	0	36	10	2	0	0	0	48	2	0
NEAMTWS	0	0	0	6	0	0	0	0	0	6	6	0
PTWS	4	2	2	5	10	0	0	0	8	23	10	5
<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>51</b>	<b>26</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>100</b>	<b>34</b>	<b>15</b>

↑ Active  
↑ Need renewal

**2025 FEBRUARY**

LEGEND	
PL	TR planned
EOI	Expression of Interest
OG	Initial TR process ongoing
TR	Initial TR recognition
RV	TR recognition valid (incl. RN)
RD	TR renewal due
RIP	TR renewal in progress
RN	TR renewal completed
RDE	TR renewal delayed

➤ Tsunami Ready Equivalency Guidance was developed by ICG/PTWS WG3 Task Team on Tsunami Ready, under the leadership of the New Zealand National Emergency Management Agency and the International Tsunami Information Centre, which was provisionally **approved** at the ICG/PTWS XXXI.

# Cessation of fax transmissions of tsunami information products by Tsunami Service Providers by 31 March 2025 (IOC CL-3006)



## IOC CL-3006 dated on 27 Sep. 2024 issued.

- Last June, the IOC Executive Council noted the increasing failure in reception and costs associated with the use of fax transmissions as a mean of disseminating and receiving tsunami threat information products sent by Tsunami Service Providers (TSPs).
- Following the recommendations of the IOC Working Group on Tsunamis and Other Hazards related to Sea Level Warning and Mitigation Systems (TOWS-WG), the Council requested the IOC Secretariat to inform all Member States, by circular letter, that fax transmissions of tsunami information products by TSPs will be phased out **from six months to the date of this letter**, unless Member States advise within three months that fax transmission is essential for the functions of their National Tsunami Warning Centre (NTWC).

The TSPs in the ICG/PTWS has stopped the fax transmission on **1 April 2025** except some member states that hope to continue the fax transmission.



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION  
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COMISIÓN OCEANOGRÁFICA INTERGUBERNAMENTAL  
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ  
اللجنة الدولية الحكومية لعلوم المحيطات  
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**IOC Circular Letter No 3006** (also available in French, Russian and Spanish) IOC/VR/NO/pbo  
27 September 2024

To : Tsunami National Contacts (TNCs), National Tsunami Warning Centres (NTWCs) and Tsunami Warning Focal Points (TWFPs) of ICG/CARIBE-EWS, ICG/IOTWMS, ICG/NEAMTWS and ICG/PTWS

C.c. : Chairpersons and Tsunami Service Providers (TSPs): CATAC, CENALT, INATEWS, INGV, IPMA, ITEWS, JATWC, KOERI, NOA, NWP/AC, PTWC, SCSTAC)  
Tsunami Information Centres (CTIC, IOTIC, ITIC, NEAMTIC)  
Chairpersons of TOWS-WG and of Inter-ICG Task Teams  
Permanent Delegates / Observer Missions to UNESCO of IOC Member States  
National Commissions for UNESCO of IOC Member States  
IOC Officers

**Subject: Cessation of fax transmissions of tsunami information products by Tsunami Service Providers by 31 March 2025**

Last June, the IOC Executive Council noted the increasing failure in reception and costs associated with the use of fax transmissions as a mean of disseminating and receiving tsunami threat information products sent by Tsunami Service Providers (TSPs). Following the recommendations of the IOC Working Group on Tsunamis and Other Hazards related to Sea Level Warning and Mitigation Systems (TOWS-WG), the Council requested the IOC Secretariat to inform all Member States, by circular letter, that fax transmissions of tsunami information products by TSPs will be phased out from six months to the date of this letter, unless Member States advise within three months that fax transmission is essential for the functions of their National Tsunami Warning Centre (NTWC).

Accordingly, I invite Tsunami National Contacts (TNC), Tsunami Warning Focal Points (TWFP) and NTWCs to report to the Secretariat in case stopping the transmission of tsunami products from TSPs by fax would be detrimental to NTWCs or TWFPs in fulfilling their functions. It should be remembered that TSP products are distributed to NTWCs and TWFPs through additional communication channels, such as e-mail and Global Telecommunication System (GTS). If you consider that none of these means can replace fax transmission, please inform the secretariat, in the person of Bernardo Aliaga, Head of the Tsunami Resilience Section ([b.aliaga@unesco.org](mailto:b.aliaga@unesco.org)) with copies to Ocal Necmioglu ([o.necmioglu@unesco.org](mailto:o.necmioglu@unesco.org)) and Angelos Haidar ([a.haidar@unesco.org](mailto:a.haidar@unesco.org)), before 31 December 2024. The Secretariat will inform the TSPs concerned accordingly.



**unesco**

Intergovernmental  
Oceanographic  
Commission

**THANK YOU**

