



**INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION of UNESCO**  
**INTERNATIONAL TSUNAMI INFORMATION CENTRE**  
**U.S. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**

**Tsunami Ready Philippines National Workshop**  
**Park Inn North EDSA, Metro Manila, Philippines**  
**8 to 11 December 2025**

The UNESCO-IOC Tsunami Ready Recognition Programme (TRRP) is an international community-based recognition programme aimed at building resilient communities through awareness and readiness strategies that will protect lives, livelihoods and property from tsunamis. The Programme is a key for achieving the Safe Ocean objective of the United Nations Decade of Ocean Science for Sustainable Development. Under the auspices of the UN Decade Tsunami Programme, Tsunami Ready aims to ensure that 100% of communities at risk of tsunami are prepared for and resilient to tsunamis by 2030. Readiness is achieved through a collaborative effort among government agencies, scientists, community leaders and the public, who work together to meet an established set of 12 indicators covering Assessment, Preparedness, and Response. The Tsunami Ready Recognition Programme, is actioned through Country National Tsunami Ready Programmes.

In the Philippines, all low-lying coastal areas are vulnerable to tsunamis. In response, DOST-PHIVOLCS, in collaboration with various stakeholders, implements various programs focused on tsunami risk reduction. These include installing detection sensors and alerting sirens, tsunami hazard modelling, mapping, and risk assessments, while also promoting community-based initiatives such as the Tsunami Early Warning System (TeWS) and Community-based Early Warning System (CBEWS) for tsunamis. The institute also conducts regular capacity development and advocacy campaigns as part of its program on Volcano, Earthquake and Tsunami Disaster Preparedness and Risk Reduction.

To bolster the capacity of national and local government offices in guiding communities towards preparedness and achieving 'Tsunami Ready' recognition, the Philippine Government, with the kind support of the United States Department of State Office of

International Disaster Response, and United States National Oceanic and Atmospheric Administration (NOAA), through the Intergovernmental Oceanographic Commission (IOC) of UNESCO and its International Tsunami Information Centre (a joint partnership between the IOC and NOAA), is conducting a 3-day national workshop. Invited participants are officials from the Philippines national, provincial, municipal, and local governments, experts from the tsunami and earthquake science agencies, and emergency management and disaster risk reduction agencies, and elected officials. The workshop will cover an overview of the Tsunami Ready Recognition Programme, the recognition process, and requirements. Participants will explore diverse examples for each indicator and discuss strategies to ensure that all at-risk communities are assisted to become prepared and resilient to tsunamis.

Workshop web site: <https://oceanexpert.org/event/4920>

### **International Resource persons**

Dr. Laura Kong, Director, International Tsunami Information Centre (ITIC), UNESCO-IOC NOAA, Honolulu, HI USA

Dr. Charles “Chip” McCreery, Director, Pacific Tsunami Warning Center (PTWC), NOAA, Honolulu, HI, USA

Ardito Kodijat, retired, Former Head, Indian Ocean Tsunami Information Center (IOTIC), UNESCO-IOC, Jakarta, Indonesia

Andrew Horan, International Affairs Project Manager, NOAA National Weather Service, Silver Spring, MD, USA

### **Philippines Resource persons**

Philippine Institute of Volcanology and Seismology, Department of Science and Technology (PHIVOLCS, DOST), Quezon City, Philippines

Dr. Ma. Mylene M. Villegas, Director III

Dr. Winchelle Ian G. Sevilla, Chief Science Research Specialist

Angelito G. Lanuza, Supervising Science Research Specialist

Joan C. Salcedo, Supervising Science Research Specialist

Jeffrey S. Perez, Supervising Science Research Specialist

Charmaine V. Villamil, Senior Science Research Specialist

Danikko Rivera, Senior Science Research Specialist

Robelyn Mangahas-Flores, Science Research Specialist

Fatima M. Moncada, Science Research Specialist

Rygin Joy R. Matias, Science Research Specialist

**PROVISIONAL AGENDA**  
(version 5 December 2025)

| Ses<br>sion | Start<br>Time | End<br>Time | Topic  | Speaker  |
|-------------|---------------|-------------|--|--|
| <b>1</b>    |               |             | <b>Monday, 8 December 2025</b>   |  |
|             |               |             | <b>AFTERNOON</b>   |  |
|             | 17:00         | 18:00       | Registration   |  |
| 1.1         | 18:00         | 20:00       | Workshop 1.<br>Familiarity Check on the 12 Tsunami Ready<br>Indicators<br>Logistics and Administrative Items<br>( <i>DINNER will be served</i> )               | Rygin Joy Matias,<br>PHIVOLCS  |
| <b>1-4</b>  |               |             | <b>Tuesday, 9 December 2025</b>  | Emcee:<br>Arianne Palma,<br>PHIVOLCS   |
|             |               |             | <b>MORNING</b>   |  |
| <b>1</b>    |               |             | <b>Opening and Program Overview</b>  |  |
|             | 8:30          | 9:00        | Attendance Check and Agenda-Setting  | Fatima Moncada,<br>PHIVOLCS  |
| 1.2         | 9:00          | 10:00       | Opening Ceremonies   |  |
|             |               |             | Welcome Remarks<br>Department of Science and Technology (DOST)<br>- Philippine Institute of Volcanology and<br>Seismology (PHIVOLCS)                           | Director Ma. Mylene<br>M. Villegas   |
|             |               |             | Messages of Support  |  |
|             |               |             | United Nations Educational, Scientific and<br>Cultural Organization - Intergovernmental<br>Oceanographic Commission (UNESCO-IOC)<br>( <i>video recording</i> ) | Bernardo Aliaga,<br>Head, IOC Tsunami<br>Resilience Section                    |
|             |               |             | United States of America (USA)   | Robert Ewing,<br>Deputy Chief of<br>Mission                                    |
|             |               |             | International Tsunami Information Center (ITIC)  | Director Laura Kong  |
|             |               |             | United Nations Educational, Scientific and<br>Cultural Organization (UNESCO), Regional<br>Office in Jakarta, Representative for the<br>Philippines             | Nikka Mae Loreto,<br>on behalf of Director<br>Maki Katsuno-<br>Hayashikawa     |
|             |               |             | Department of the Interior and Local<br>Government (DILG)  | Atty. Jesi Howard S.<br>Lanete, Assistant<br>Secretary for Local<br>Government |
|             |               |             | Office of Civil Defense (OCD)  | Director Jose Harry<br>M. Barber   |
|             |               |             | Department of Science and Technology (DOST)  | Secretary Renato U.<br>Solidum, Jr.  |
|             | 10:00         | 10:30       | GROUP PHOTO  |  |
|             |               |             | COFFEE/TEA BREAK   |  |

|     |       |       |   |  |
|-----|-------|-------|---|--|
| 1.3 | 10:30 | 10:45 | Introduction of Resource Speakers   | Rygin Joy Matias, PHIVOLCS                             |
| 1.4 | 10:45 | 11:00 | Course Overview   | Laura Kong, ITIC                                       |
| 2   |       |       | Global Tsunami Warning and Mitigation System<br>What is the UNESCO IOC Tsunami Ready Recognition Programme              |  |
| 2.1 | 11:00 | 11:15 | Weather Ready Nations - NOAA National Weather Service International Capacity Building                                   | Andrew Horan, NWS International Affairs                |
| 2.2 | 11:15 | 11:30 | Pacific Tsunami Warning and Mitigation System (UNESCO-IOC PTWS), PTWS International Alerts by Tsunami Service Providers | Charles McCreery, PTWC                                 |
| 2.3 | 11:30 | 11:45 | UNESCO-IOC Tsunami Ready Recognition Programme (TRRP) - Framework, Background, and History                              | Ardito Kodijat, formerly IOTIC                         |
| 2.4 | 11:45 | 12:15 | TRRP Indicators   | Kong   |
|     | 12:15 | 13:15 | LUNCH   |  |
|     |       |       | <b>AFTERNOON</b>  |  |
| 3   |       |       | How to Become Tsunami Ready   |  |
| 3.1 | 13:15 | 13:35 | Establishing a National Programme - Requirements  | Kong   |
| 3.2 | 13:35 | 13:55 | Recognition Process Workflow for Each Community - Recognition Certificate and Ceremony                                  | Kodijat  |
| 3.3 | 13:55 | 14:15 | Tsunami Ready Recognition Programme Application   | Kodijat  |
| 3.4 | 14:15 | 14:30 | Status of the Philippine NTRB   | Director Jose Harry M. Barber, Office of Civil Defense |
| 3.5 | 14:30 | 15:15 | Available Tools and Support: Information Centres, Training, Resources   | Kong, Kodijat  |
|     | 15:15 | 15:45 | COFFEE/TEA BREAK  |  |
| 4   |       |       | Assessment Indicators –<br>How to achieve, challenges, and solutions  |  |
| 4.1 | 15:45 | 16:30 | Tsunami Hazard Map - Historical, Worst-case scenarios, Inundation Modeling, No Modeling                                 | McCreery   |
| 4.2 | 16:30 | 17:00 | Status of Tsunami Hazard Mapping in the Philippines   | Robelyn Flores, PHIVOLCS                               |
| 4.3 | 17:00 | 17:15 | Accessing the DOST-PHIVOLCS Tsunami Hazard Maps   | Danikko Rivera, PHIVOLCS                               |
|     | 17:15 | 18:00 | HEALTH BREAK  |  |
| 4.4 | 18:00 | 20:00 | Workshop 2.<br>Interpreting Tsunami Hazard Maps in the Local Context<br>(DINNER will be served)                         | Jeffrey Perez, PHIVOLCS                                |

|            |       |       |   |                                       |
|------------|-------|-------|---|---------------------------------------|
| <b>5-6</b> |       |       | <b>Wednesday, 10 December 2025</b>  | Emcee:<br>KD Lagunsad,<br>PHIVOLCS    |
|            |       |       | <b>MORNING</b>  |                                       |
|            | 9:00  | 9:15  | Recap, Today's Agenda   | Epris Gretel Majhi,<br>PHIVOLCS       |
| <b>5</b>   |       |       | Preparedness Indicators –<br>How to achieve, challenges, and solutions                    |                                       |
| 5.1        | 9:15  | 10:00 | Evacuation Map - Guidelines, Map Standards  | Kong                                  |
| 5.2        | 10:00 | 10:30 | Evacuation Map - Examples and Discussions   | Joan Salcedo,<br>PHIVOLCS             |
|            | 10:30 | 11:00 | COFFEE/TEA BREAK  |                                       |
| 5.3        | 11:00 | 11:15 | Signage - types, sizes, colors, placement   | McCreery                              |
| 5.4        | 11:15 | 11:45 | Outreach, Public Awareness, Education -<br>Types, Target Audience                         | Kodijat                               |
| 5.5        | 11:45 | 12:15 | Outreach, Public Awareness, Education<br>Examples and Discussion                          | Charmaine Villamil,<br>PHIVOLCS       |
|            | 12:15 | 13:15 | LUNCH   |                                       |
|            |       |       | <b>AFTERNOON</b>  |                                       |
| 5.6        | 13:15 | 14:00 | Exercises - Components, Types, Documentation  | Kong                                  |
| 5.7        | 14:00 | 14:30 | Exercise Examples and Discussion  | Rygin Joy Matias                      |
|            | 14:30 | 15:00 | COFFEE/TEA BREAK  |                                       |
| <b>6</b>   |       |       | Response Indicators –<br>How to achieve, challenges and solutions                         |                                       |
| 6.1        | 15:00 | 15:45 | Warning and Response Plans and Capacity -<br>National, Local, Community                   | Kodijat                               |
| 6.2        | 15:45 | 16:15 | Warning and Response Plan and Capacity<br>Examples and Discussion                         | Fatima Moncada                        |
| 6.3        | 16:15 | 17:00 | Tsunami Summit Results and the Tsunami<br>Coping Capacity Platform (GeoRisk)              | Director Ma. Mylene<br>M. Villegas    |
|            | 17:00 | 18:00 | HEALTH BREAK  |                                       |
| 6.4        | 18:00 | 20:00 | Workshop 3.<br>Status of Local Tsunami Response Plans<br>( <i>DINNER will be served</i> ) | Reactors:<br>D/MILG, D/MOST,<br>PSTO  |
| <b>6-9</b> |       |       | <b>Thursday, 11 December 2025</b>   | Emcee:<br>Melissa Tamayo,<br>PHIVOLCS |
|            |       |       | <b>MORNING</b>  |                                       |
|            | 9:00  | 9:15  | Recap, Today's Agenda   | Epris Gretel Majhi                    |
| <b>6</b>   |       |       | Response Indicators –<br>How to achieve, challenges and solutions<br>(continued)          |                                       |
| 6.5        | 9:15  | 10:00 | Communications - Receive and Disseminate<br>Alerts, Requirements, Methods, Sustainability | McCreery                              |

|     |       |       |   |  |
|-----|-------|-------|---|--|
| 6.6 | 10:00 | 10:15 | Communications Example<br>- CTAS<br>- Challenges and Solutions  | Angelito G. Lanuza,<br>PHIVOLCS  |
| 6.7 | 10:15 | 10:30 | Communications Example<br>- Philippine Tsunami Information<br>- Shake, Drop, and Roar<br>- Challenges and Solutions | Winchelle Sevilla,<br>PHIVOLCS   |
|     | 10:30 | 10:45 | COFFEE/TEA BREAK  |  |
|     |       |       | (Check-out time for Metro Manila participants)  |  |
| 7   |       |       | Building Familiarity  |  |
| 7   | 11:00 | 12:30 | <i>RUNAMI, Tsunami Ready board game</i>   | Kodijat, Kong,<br>McCreery,<br>PHIVOLCS<br>Facilitators                                      |
|     | 12:30 | 13:30 | LUNCH   |  |
|     |       |       | <b>AFTERNOON</b>  |  |
| 8-9 |       |       | Summary and Closing   |  |
| 8   | 13:30 | 15:00 | Summary, Next Steps and Actions   | Facilitators:<br>Kong, Kodijat,<br>McCreery, Moncada<br>Reactors:<br>D/MILG, D/MOST,<br>PSTO |
|     | 15:00 | 15:30 | COFFEE/TEA BREAK  |  |
| 9   | 15:30 | 16:00 | Closing Ceremonies  | Director Ma. Mylene<br>M. Villegas,<br>PHIVOLCS  |