



unesco

Intergovernmental
Oceanographic
Commission

ICG/PTWS-XXIX
1, 2, 7, 8 December 2021
Virtual

Agenda 4.2

PacWave 2022



PacWave22

Margarita Martinez, ONEMI, Chile

Emilio Talavera, INETER, Nicaragua

Laura Kong, International Tsunami Information Center

Task Team on PacWave



Background

- **Due to COVID-19, PacWave20 scope reduced. Tested only 2 of 4 objectives.**
 - Objective a. Communication test on November 5, 2020
 - Objective d. CATAC regional exercise
 - Other activities encouraged but at the discretion of country

- **At PTWS Steering Committee (SC, Sep 2021), next PacWave (PacWave22) discussed noting PacWave20 reduced scope and findings. SC approved:**
 - PTWS Task Team on PacWave Exercise to oversee.
 - PacWave22 to be conducted using same objectives and following same format and conduct as original PacWave20 (PTWS-XXVIII.1, 2019)
 - Member States consider conducting for situations based on limitations derived from COVID-19 pandemic
 - TT to compile and summarize good practices for planning, conducting, and evaluating virtual exercises, and include in exercise manual
 - Post-Exercise Evaluation reporting for PTWS Communications Test to be earlier to accommodate reporting to ICG/PTWS-XXX (Nov 2022)
 - TT to explore more automatic & efficient ways to compile information prior to Oct 2022

Exercise Aim and Objectives (same as original PacWave20)

- **An exercise shall be conducted with the aim to test PTWS tsunami service provider arrangements, and Country preparedness arrangements and operational procedures to respond and recover from a destructive tsunami.**

- **An exercise shall be conducted with the following objectives**
 - Test communications from the PTWS Tsunami Service Providers to Tsunami Warning Focal Points and National Tsunami Warning Centers of Member States.
 - Test national communication and cooperation, and readiness within the country.
 - Test regional communication and cooperation between Member States.
 - Support the development of tsunami procedures and products by the Central America Tsunami Advisory Center (CATAC).



Exercise Conduct (1) – Dates, Activities

□ DATES

- Take place in the months of September through to November 2022 to support International Disaster Risk Reduction Day (13 October) and World Tsunami Awareness Day (5 November).
- PacWave exercise should be maintained (September to November 2022).

□ EXERCISE ACTIVITIES

- PTWS recognizes that pandemic is a permanent state for some countries and needs to be considered in PacWave exercise planning.
- Be conducted as a series of regional exercises organized through the PTWS Regional Working Groups where applicable, with support from the PTWS TSPs and ITIC, involving all PTWS countries as part of the regular biennial Pacific Wave exercise conducted since 2006.
- Be conducted to include one live communications test from the PTWS TSPs to Member States on 13 October 2022 and countries must report their test results 10 days after the exercise.

Exercise Conduct (2) – Activities, Characteristics

- **Be conducted to include exercise activities over and above a table top exercise. Possible exercise variations include:**
 - Consider conducting for situations based on limitations derived from the **COVID-19 pandemic**, such as the absence of warning center duty officer(s), requirements for virtual exercises, and/or evacuations/sheltering considering physical distancing practices of a pandemic
 - Consider conducting in real time during the daytime working hours with full staffing, or simulating minimal staff during night time or weekend hours
 - Consider testing country capability to carry out their warning and response responsibilities for the situation where one or more PTWS TSPs is not able to provide guidance in a timely manner.
 - Consider conducting the exercise down to the community level, including where possible an extensive public awareness campaign.
 - Consider the Sendai Framework for Disaster Risk Reduction Global Sendai Framework for Disaster Risk Reduction seven global targets and four priorities for action, World Tsunami Awareness Day and/or the UN Decade of Ocean Science for Sustainable Development in designing the exercise.

Exercise Conduct (3) – Announce, Manual

- ❑ The exercise shall be announced by the IOC to Member States at least 240 days in advance of the exercise date.
- ❑ The exercise manual will
 - Include information on each regional exercise
 - Inform Member States on the availability of exercise products for their region, including instructions to Member States regarding the distribution dates,
 - Include instructions to Member States regarding their participation and the evaluation instrument be prepared with content and structure similar to what was prepared for previous Pacific-wide exercises, but **considering lessons learned on conducting exercises in a pandemic context**, and any need to collect other additional information.
 - Be distributed by the IOC to Member States at least 180 days in advance of exercise date.
 - Compile and summarize good practices for planning, conducting, and evaluating virtual exercises, and include in the PacWave22 Exercise Manual
 - Include guidance on the use of TsuCAT for planning and response, including the development of exercise scenarios

Exercise Conduct (3) – Evaluation, Report, Next PacWave

- ❑ Results of the communications test will be reported at the ICG/PTWS XXX Meeting (Nov 2022).
- ❑ Participating Member States will be asked to **complete and return the evaluation instrument no more than 21 days** following the exercise
- ❑ Task Team shall:
 - Provide the Exercise Manual
 - Prepare the Summary Report for the exercise, compiling a list of recommendations and the list of actions from the findings for consideration by the ICG/PTWS-XXX.
 - Provide guidance for the conduct of the next Exercise Pacific Wave, tentatively planned for 2024.

PacWave Task Team Members – current, additional?

- ❑ **Members invited from the ICG/PTWS Member States and Regional Working Groups, SPC, PTWC, NWPTAC. SCSTAC and CATAAC.**
- ❑ **Task Team co-chairs to be elected by the ICG.**

Co-Chairs

- ❑ Margarita Martinez – Chile
- ❑ Emilio Talavera – Nicaragua

Members (PacWave20)

- ❑ Jo Guard - New Zealand
- ❑ Chip McCreery – USA, PTWC
- ❑ Silvia Chacon – Costa Rica, CA-PAC Chair
- ❑ David Coetzee – NZ, WG 3 Chair
- ❑ Viviana Dionicio – Colombia
- ❑ Ji Min Lee – KMA, Republic of Korea
- ❑ Yuelong Miao – BOM, Australia
- ❑ Jerome Aucan – SPC
- ❑ Viacheslav Gusiakov – Russia
- ❑ Nishimae Yuji – JMA
- ❑ Robert Greenwood – BOM, Australia
- ❑ Carlos Zuniga - SHOA, Chile
- ❑ Wilfried Strauch - INETER, Nicaragua
- ❑ Carolina Henriquez - SHOA, Chile
- ❑ Carolina Hincapie - ITIC, USA
- ❑ Laura Kong - ITIC

PacWave informational video

- **ITIC, IOC, USA, Chile**
- **TOPICS**
 - What is PacWave
 - Why is PacWave important
 - What does PacWave do
- **CONTENT**
 - ‘Interview’ narratives – IOC, ITIC, PTWC, NWPTAC, Chile, Philippines, El Salvador
 - Visuals of previous PacWave and other exercises (upstream, downstream)
 - Pacific Tsunami Ready shot-outs
- **Still finishing: PTWS-XXIX Showing Dec 7 or 8**





unesco

Intergovernmental
Oceanographic
Commission

ICG/PTWS-XXIX
1, 2, 7, 8 December 2021
Virtual

Agenda 4.2

PacWave 2022



PacWave22

Laura Kong, International Tsunami Information Center

Margarita Martinez, ONEMI, Chile

Emilio Talavera, INETER, Nicaragua

Co-Chairs, Task Team on PacWave