







Agenda 4.2 PTWS Exercise Task Team

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PTWS Exercise Task Team -

Terms of Reference

- (i) Review the PACWAVE08 evaluation report
- (ii) Identify lessons learned from PACWAVE08
- (iii) Design and carry out a third end-to-end Pacific-wide exercise

Members:

PTWC, JMA NWPTAC, France, Indonesia, New Zealand (GNS, MCDEM), Nicaragua, Papua New Guinea Philippines, Russian Federation, Southeast Pacific representative (TBD?), PTWS Secretariat

PacWave08 Lessons Learned for PacWave11 (1/4)

- Tsunami Warning Focal Point contact data
 Issue: TWFP contact information incorrect
 => Countries regularly review / confirm to IOC
- Conduct exercises in real time
 Issue: Positive in their feedback for real time
 => Regular Pacific-wide exercises to be in real time
- Exercise announcements
 Issue: Insufficient time to prepare
 IOC officially announce 6 months / distribute documents 3 months prior

PacWave08 Lessons Learned for PacWave11 (2/4)

- Local community preparedness
 Issue: Not generally known how successful locally (timely alert and actual evacuation)
 - ⇒Increase emphasis on local community-based preparedness, training, and "last mile" exercises
- Tsunami plans and standard operating procedures
 Issue: Countries did not assemble management group
 during exercise (but would in a real event). Unclear
 how many countries pre-determined tsunami plans.
 - ⇒For fast tsunami response, need end-to-end SOPs. PTWS WG 3 to survey; if training priority, incl training budget in annual natl budget request.

PacWave08 Lessons Learned for PacWave11 (3/4)

- Warning systems
 - Issue: Communication to local jurisdictions insufficient for immediate response of coastal communities.
 - ⇒Conduct feasibility study to identify and evaluate relevant warning systems. Australia (AusAID) PIC Tsunami Capacity Assessments (2009) and PTWS WG 3 survey providing input. PTWS Emergency Communications TT assist in identifying technologies available.

PacWave08 Lessons Learned for PacWave11 (4/4)

- Post-exercise evaluation / Regional Recommendations in context of PTWS Medium Term Strategy
 - Issues 1: Large number of questions unanswered so difficult to draw conclusions as part of evaluation process, e.g., regional (PTWS) common priorities of action too specific / did not address PTWS MTS
 - => Simpler evaluation questionnaire / electronic online.
 - => How to Plan, Conduct, and Evaluate Tsunami Exercises guidance manual developed (also TOWS Inter-ICG TT)
 - => Evaluation directly correlate to measure PTWS MTS

PacWave11 - Date and Objective 1

- IOC Circular Letter 2390 issued 13 May 2011
 - 9-10 Nov 2011 multi-scenario local / regional tsunami; during APEC offering high visibility
 - Nominate PacWave11 focal point by 10 June 2011.
- Objectives
- 1. To validate understanding and use of PTWS
 Experimental Products. Proposed to be tested in PacWave11 through 2013
 - Utilise PTWC experimental products, incl forecast models /science info => timely hazard assessment.
 - Validate advice issuance from PTWC JMA/NWPTAC
 - Validate advice receipt by Pacific country TWFPs.

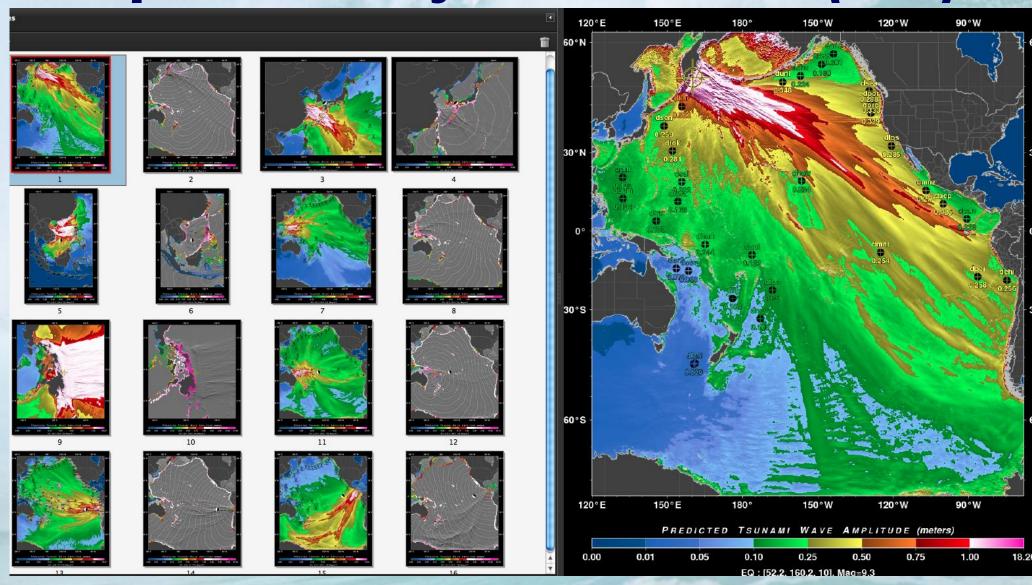
PacWave11 – Objective 2

- Objective 2.
- To validate readiness for local/regional source tsunami
 - Improve operational readiness (ensure appropriate tools / response plan(s), incl public education
 - Conduct pre-exercise public education on response
 - Validate dissemination of NTWC in-country agencies.
 - Validate decision-making on warnings / evacuations.
 - Validate methods to notify and instruct public.
 - Assess elapsed time until public notified
 - Validate public information material –
 Useable/actionable, clear, concise and timely.

PacWave 11 - Scenarios

- The scenarios
 - Kamchatka (Kuril-Kamchatka Trench)
 - Ryukyu Islands (Nansei-Shoto Trench)
 - Philippines South China Sea (Manila Trench)
 - Philippines Pacific Ocean (Philippines Trench)
 - Vanuatu (New Hebrides Trench)
 - Northern Chile (Peru-Chile Trench)
 - Ecuador (Colombia Ecuador Trench)
 - Central America (Middle America Trench)
 - Aleutian Islands (Aleutian Trench)

PacWave 11 Scenarios – Example Preliminary Forecast Models (RIFT)



PacWave 11 – Conduct: Start, Messages, Guidance

- Time of Event:
 - SW Pacific requested during the day.
 - Other regions provide input
- International TWC Messages
 - Only 1st Exercise Start message
 - All available on secure web site (save money)
- Exercise Manual available 9 August with details
- How to Plan, Conduct, and Evaluate Tsunami Exercise
 - available July 2011 use for training and briefings

Conduct – Manual and Guidance

- Exercise Manual available 9 August with details
- How to Plan, Conduct, and Evaluate Tsunami Exercise available July 2011 use for training and briefings



Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System

Exercise Pacific Wave 11

A Pacific-wide warning and communication exercise 9-10 November 2011

How to Plan, Conduct and Evaluate Tsunami Exercises

Intergovernmental Oceanographic Commission technical series

Version 3: 20 May 2011

UNESCO

Conduct – Evaluation, TOWS, Training

- Post-Exercise Evaluation
 - Focus on plans, policies, procedures, assessment capabilities, communication, resources and interagency/inter-jurisdictional relationships
 - Aligned with PTWS MTS and its activities
- Consistency Globally for Exercise
 - IOWave11 same methodology and questionnaire
 - Next CaribeEWS?
- PacWave11 briefings and training
 - On request possible partnered trainings
 - ITP-Hawaii 2011 (22 Aug -2 Sept) IOC CL early June





Thank You

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