



Intergovernmental
Oceanographic
Commission

**PacWave15 Summary Brief
February 2015**

Exercise Pacific Wave 2015 (PacWave15) 2-6 February 2015

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PacWave15 – Date and Purpose

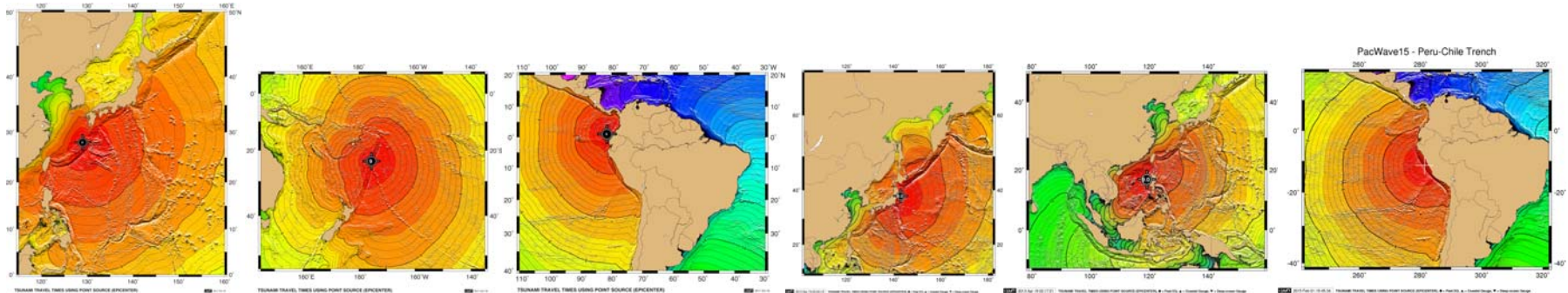
- **Exercise Web Site:** <http://www.pacwave.info>
- **IOC Circular Letter 2548 issued 4 Nov 2014**
 - **2-6 February 2015:**
PTWS Exercise Pacific Wave “PacWave 15”
- **Exercise Purpose:**
**The aim of PacWave15 is to test the new
Operational PTWS PTWC Enhanced Products**

PacWave15 – Objectives

- 1. Test communications from the PTWS Tsunami Service Providers to Countries.**
- 2. Test whether the PTWS PTWC Tsunami Service Provider products are interpreted by countries accurately and in a timely manner.**
- 3. Test national and regional cooperation.**

PacWave15 – 6 Scenarios

- Nansei-Shoto Trench, Ryukyu Islands (PacWave11)
- Tonga Trench (PacWave11)
- Colombia-Ecuador Trench (PacWave11)
- Northern Japan Trench (PacWave13)
- Manila Trench (PacWave13)
- Peru-Chile Trench (PacWave15)

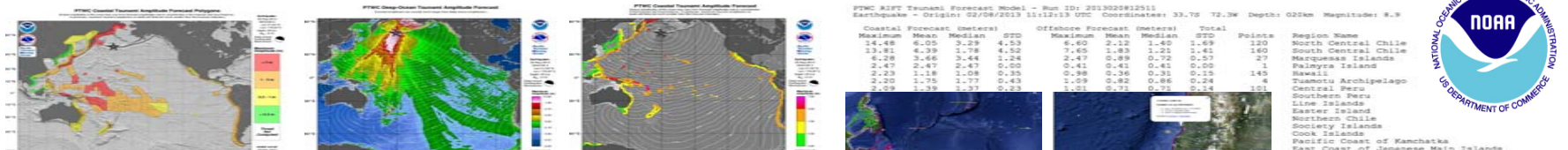


PacWave15 – Conduct

- **Exercise Date:**
 - Events live, but may conduct at different date / time
 - 3 February: Peru-Chile, Colombia-Ecuador, Tonga
 - 4 February: Japan, Nansei-Shoto, Manila
- **Exercise Type and Participants – Recommend:**
 - Tabletop Exercise
 - Minimum participation should be
 - National Tsunami Warning Center
 - National Disaster Management Office
- **Each Country should exercise 1 Tsunami Scenario**
- **International TWC Messages (on web site)**
 - PTWC (new), JMA NWPTAC (existing)
 - Live ‘Dummy Text’ messages

PTWC New Enhanced Products

- Base threat on wave forecast models, not on pre-determined magnitude threshold
- Forecasts constrained by EQ mechanism (W-CMT) and sea level readings
- **Public Text Msg continues – Summary Information**
- **Graphical forecasts and Statistics table only to Country Tsunami Warning Focal Points (TWFP):**
 - Coastal Tsunami Amplitude Forecast Polygon Map - Overview
 - Deep-Ocean Tsunami Amplitude Forecast Map – Pacific-wide
 - Coastal Tsunami Amplitude Forecast Map – Pacific-wide and Regional, with Tsunami Travel Times
 - Coastal Tsunami Amplitude Forecast KMZ– input to Google Earth
 - Table of Forecast Statistics for Regional Polygons



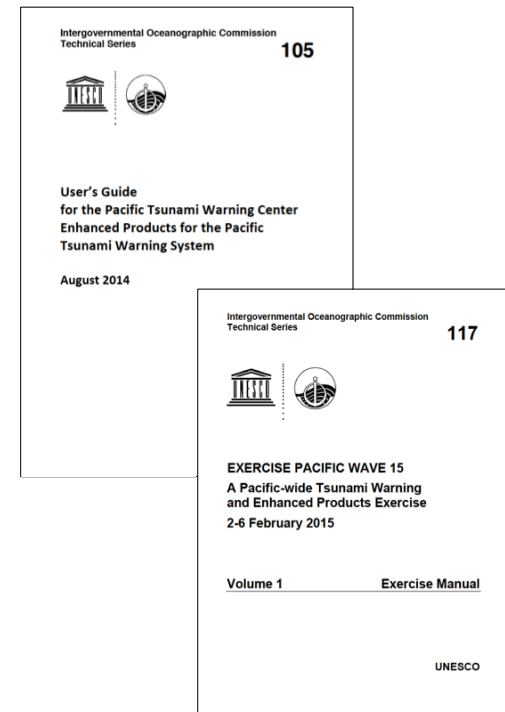
PTWC New Enhanced Products

- No Warning / Watch Alert Levels
- **Instead, issue Threat Levels:**
4 categories based forecast maximum coastal tsunami wave amplitudes
 - $< 0.3\text{m}$ (no Threat)
 - 0.3 to $< 1\text{m}$
 - 1 to 3m
 - $> 3\text{m}$
 - Other: Forecast not yet computed



PacWave15 - Documents

- **Available at PacWave15 web site (www.pacwave.info):**
 - Exercise Messages (PTWC, JMA/NWPTAC)
 - PacWave Exercise Manual (IOC TS 117, 2015)
 - User's Guide to PTWC Enhanced Products for the PTWS (IOC TS 105, revised, 2014)
 - PacWave15 Summary (this ppt)
 - How to Plan, Conduct, and Evaluate IOC Tsunami Wave Exercises (IOC M&G 58 2013)
 - PacWave15 Announcement (IOC CL 2548, 4 November 2014)



Conduct – Evaluation

- **Post-Exercise Evaluation**
 - Due 21 February 2015.
 - Report available for ICG/PTWS-XXVI,
22-24 April 2015
 - Online:
https://www.surveymonkey.com/s/pacwave15_eval

Questions?

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