



**UNESCO / IOC – NOAA
INTERNATIONAL TSUNAMI INFORMATION CENTER (ITIC)
ITIC TRAINING PROGRAMME - INTERNATIONAL (ITP-INTL)**

**STRENGTHENING TSUNAMI WARNING AND EMERGENCY RESPONSE
WORKSHOP ON THE DEVELOPMENT OF STANDARD OPERATING SYSTEMS**

**24-28 September 2012
US Embassy Training Room
Port Moresby, Papua New Guinea**

PROVISIONAL AGENDA

International Speakers:

Dr. Laura Kong, Director, ITIC

Dr. Stuart Weinstein, Deputy Director, PTWC

Session	Start Time	End Time	Topic	Speaker
1			MONDAY, 24 SEPTEMBER: WORKSHOP PREPARATION, TW TOOLS	
			Meeting US Embassy, Port Moresby Geophysical Observatory, NDC, Weather Service	
	10:00	11:00	US Embassy	Kong, Weinstein
1.1	11:00	12:00	Finalize Workshop Agenda and Preparations - meet at Training Room venue	Kong, Weinstein, PNG PMGO, NDC, Weather Service
	12:00	13:30	LUNCH	
			Tsunami Warning Decision Support Tools - Training and/or Installation. Venue to be determined. Internet required.	
1.2	13:30	14:00	Overview	Kong, Weinstein
1.3	14:00	16:30	Demonstration and Installation Earthquake Monitoring (CISN), Sea Level Monitoring (Tide Tool), Tsunami Travel Time Calculation (TTT), Tsunami Historical Database (TsuDig). <i>Internet Requested</i>	Kong, Weinstein
2			TUESDAY, 25 SEPTEMBER: TRAINING WORKSHOP	
			Overview, Vanuatu Tsunami Warning and Emergency Response	
2.1	9:00	9:30	Opening, Welcome	PNG, ITIC
2.2	9:30	9:55	Papua New Guinea Tsunami Early Warning System - Tsunami Warning	PMGO
2.3	9:55	10:20	Papua New Guinea Tsunami Early Warning System – Tsunami Emergency Response	NDC
	10:20	10:40	COFFEE / TEA BREAK, Group Photo	
2.4	10:40	11:30	End-to-End Tsunami Warning	Kong
2.5	11:30	12:00	Earthquake and Tsunami Science – Generation, propagation, impact, Terms and Definitions	Weinstein
	12:00	13:30	LUNCH	

			PTWS, Hazard and Risk, Lessons Learned 2009-2011, TWC Operations	
2.6	13:30	14:00	Global and Pacific Tsunami Hazard and Risk Assessment	Weinstein
2.7	14:00	14:50	Lessons Learned: South Pacific (29 Sep 2009), Chile (27 Feb 2010), Japan (11 March 2011)	Kong, Weinstein
	14:50	15:10	COFFEE / TEA BREAK	
2.8	15:10	15:50	End-to-end Tsunami Warning – Stakeholder and their needs, Roles and Responsibilities, Standard Operating Procedures, and their linkages	Kong
2.9	15:50	16:30	Tsunami Warning and Emergency Response: Concept of Operation and Standard Operating Procedures (SOP) for Distant and Local Tsunamis	Weinstein, Kong
3			WEDNESDAY, 26 SEPTEMBER: TRAINING WORKSHOP	
			Tsunami Warning Center (TWC) Operations	
3.1	9:00	9:40	PTWC Standard Operating Procedures (SOP) for Distant, Regional, and Local Tsunamis: Overview on Monitoring, Detection and Evaluation, Instrumentation and Methodologies (seismic, sea level, forecasts (travel time, wave height, etc), Data communications, Messages and Message Dissemination.	Weinstein
3.2	9:40	10:20	TWC Event Operations for Local and Distant Tsunamis - Limitations and Challenges: Real-Time Earthquake Source Characterization	Weinstein
	10:20	10:40	COFFEE / TEA BREAK	
3.3	10:40	11:20	TWC Event Operations for Local and Distant Tsunamis – Limitations and Challenges: Real-Time Tsunami Detection and Threat Assessment	Weinstein
3.4	11:20	12:00	TWC SOPs using Tsunami Warning Decision Support Tools - Using CISN, Tide Tool / IOC SL Monitor web site, TsuDig, TTT	Kong
	12:00	13:30	LUNCH	
			TWC Operations, PTWC New Products, Alert and Dissemination	
3.5	13:30	14:10	TWC Operations: Guidance and Samples for Routine (non-crisis) operations, including procedures for operational readiness, data collection, and network maintenance	Weinstein
3.6	14:10	14:50	New PTWC Products - Why, What (criteria, types), When and How (implementation, rollout, training). Exercise Pacific Wave 2013	Kong
	14:50	15:10	COFFEE / TEA BREAK	
3.7	15:10	15:50	New PTWC Products - RIFT and SIFT Forecasts TWC and TER understanding and interpretation	Weinstein
3.8	15:50	16:30	Communication technologies for the transmission of tsunami warnings from national to local governments and communities – robustness, reliability, redundancy criteria for emergency communications. Existing alert methods, including WMO GTS, LRIT, EMWIN, RAPIDCast, broadcast media, Fax, internet/web/email, radio/HF, Mobile/Cell phones, SMS, social media, sirens	Kong
4			THURSDAY, 27 SEPTEMBER: TRAINING WORKSHOP	
			Tsunami Emergency Response (TER), Evacuation, Mitigation, Public Information Flow	
4.1	9:00	9:40	10 Steps to Enable a Successful Tsunami Emergency Response	Kong
4.2	9:40	10:20	Public Coastal Evacuation: Alerting and moving people, inundation maps, evacuation routes and signage, all-clear safe return	Weinstein
	10:20	10:40	COFFEE / TEA BREAK	
4.3	10:40	11:20	Developing TER SOPs for Distant and Local Threats: General Roles and Responsibilities, Evacuation Checklists, Timeline of Processes and Actions. Case Study: Wakayama, Japan local tsunami SOPs	Kong
4.4	11:20	12:00	Warning Dissemination and Public Alerts - Information Flow and the Role of Media: Japan JMA-NHK example and SOPs	Kong

	12:00	13:30	LUNCH	
			Tsunami Emergency Response, Preparedness, Exercises	
4.5	13:30	14:10	Tsunami Emergency Response Operations - Limitations and Challenges	Weinstein
4.6	14:10	14:50	Building Tsunami Preparedness: US TsunamiReady, Education, Mitigation	Kong
	14:50	15:10	COFFEE / TEA BREAK	
4.7	15:10	15:50	Exercises: How to Plan, Conduct, and Evaluate Tsunami Exercises guideline	Kong
4.8	15:50	16:30	Exercise PNG 2012: Overview and Format - Roles & Responsibilities, Timeline-driven SOPs, Checklists, Templates, etc	Kong
5			FRIDAY, 28 SEPTEMBER: TRAINING WORKSHOP, EXERCISE PNG 2012	
			Exercise PNG 2012	
5.1	9:00	9:40	Exercise PNG 2012 - Setup	Kong
5.2	9:40	10:20	Conduct Table Top Exercise	Kong, Weinstein, All
	10:20	10:40	COFFEE / TEA BREAK	
	10:40	12:00	Conduct Table Top Exercise (continued)	All
	12:00	13:30	LUNCH	
5.3	13:30	14:30	Exercise PNG 2012 - Post-Exercise Evaluation	All
5.4	14:30	15:00	Summary Discussion - Next Steps and Way Forward	All
			Closing	
	15:00	15:20	COFFEE / TEA BREAK	
5.5	15:20	15:45	Presentation of Certificates	ITIC, PTWC, PNG
5.6	15:45	16:15	Closing	PNG, ITIC