



MONRE

## UNESCO-IOC

### Strengthening Tsunami Warning and Emergency Responses: Training Workshop on the Development of End-to-End Tsunami Standard Operating Procedures (SOPs)

8-10 December 2008

Institute of Meteorology, Hydrology and Environment  
Hanoi, Vietnam

#### PROVISIONAL AGENDA

Session	Start Time	End Time		Session Chair Lecturer
<b>1-3</b>			<b>DAY 1:</b>	
<b>1</b>			<b>MORNING</b>	Dr. Jane Cunneen
	8:30	9:00	Registration	IOC, Vietnam
<b>1.1</b>	9:00	9:20	Opening Ceremonies	IOC, Vietnam
<b>1.2</b>	9:20	9:30	Course Overview	Dr. Laura Kong
<b>1.3</b>	9:30	9:35	Logistics and other administrative items	Cunneen
<b>2</b>			<b>Tsunami Warning and Emergency Response – Overview</b>	Dr. Rene Solidum, Jr.
<b>2.1</b>	9:35	10:15	End-to-End Tsunami Warning and Emergency Response – Overview	Kong
	10:15	10:45	COFFEE / TEA BREAK	
<b>2.2</b>	10:45	11:30	Earthquake and Tsunami Science for tsunami warning + video	Masahiro Yamamoto
<b>2.3</b>	11:30	12:00	End-to-end Tsunami Warning – Stakeholders, Roles and Responsibilities, Standard Operating Procedures, and their linkages	Cunneen
	12:00	13:15	LUNCH	
			<b>AFTERNOON</b>	
<b>3</b>			<b>Tsunami Risk Mitigation in the South China Sea region</b>	Kong
<b>3.1</b>	13:15	14:00	Tsunami Hazards in the South China Sea region + video (Moro Gulf?)	Solidum
<b>3.2</b>	14:00	15:00	Case Study: Philippines Tsunami Risk Mitigation + video	Solidum
	15:00	15:30	COFFEE / TEA BREAK	
<b>3.3</b>	15:30	16:15	Tsunami warning and emergency response in Vietnam: Current State	Dr. Nguyen Hong Phuong, Institute of Geophysics
<b>3.4</b>	16:15	17:00	Vietnam Tsunami Hazards based on Pre-calculated Tsunami Scenarios	Dr. Vu Thanh Ca, Vietnam Administration of Sea and Islands, Research Institute for the Management of Sea and Islands

			<b>DAY 2:</b>	
			<b>MORNING</b>	
<b>4</b>			<b>Tsunami Warning Center Operations</b>	Cunneen
<b>4.1</b>	8:30	9:15	Lessons Learned from past tsunami - Pacific and Indian Ocean examples	Kong
<b>4.2</b>	9:15	10:00	Pacific Tsunami Advisory Service – Standard Operating Procedures of the PTWC and JMA NWPTAC	Yamamoto
	10:00	10:30	COFFEE / TEA BREAK	
<b>4.3</b>	10:30	11:15	National Tsunami Warning Centres – Overview on Standard Operating Procedures - Daily Operations, Flow Charts, Timelines	Kong
<b>4.4</b>	11:15	12:00	National Tsunami Warning Centres – Overview on Standard Operating Procedures - Daily Operations, Flow Charts, Timelines Case Study: Philippines	Solidum
	12:00	13:15	LUNCH	
			<b>AFTERNOON</b>	
<b>4</b>			<b>Tsunami Warning Center Operations</b>	Solidum
<b>4.5</b>	13:15	14:00	TWC Operations and SOPs – Active seismic monitoring and real-time earthquake source characterization	Yamamoto
<b>4.6</b>	14:00	15:00	TWC Operations and SOPs - Sea level monitoring, tsunami confirmation and wave forecast	Kong
	15:00	15:30	COFFEE / TEA BREAK	
<b>4.7</b>	15:30	16:30	Breakout Groups: Using Templates to Develop Timeline of Processes and Actions as SOPs (Detection, Evaluation, Messages, Dissemination)	All (Kong)
<b>4.8</b>	16:30	17:00	Break out Groups - Presentations of SOPs	All
			<b>DAY 3:</b>	
			<b>MORNING</b>	Cunneen
<b>5</b>			<b>Tsunami Emergency Response and Preparedness</b>	
<b>5.1</b>	8:30	9:15	10 Steps to Enable a Successful Tsunami Emergency Response	Solidum
<b>5.2</b>	9:15	10:00	Warning Dissemination and Public Alerting mechanisms and technologies	Kong
	10:00	10:30	COFFEE / TEA BREAK	
<b>5.3</b>	10:30	11:15	Tsunami Emergency Response Case Studies - Understanding and acting on TWC Messages, DMO Actions (including Alerting, Evacuation, and Safe Return) and Use of Timelines in Emergency Response: Wakayama, Japan (local threat), Hawaii, USA (distant threat)	Yamamoto, Kong
<b>5.4</b>	11:15	12:00	Use of Exercises in Tsunami Preparedness: Exercise Development / Regional and National Exercises and Post-Exercise Evaluations, Exercise Pacific Wave 06 and Exercise Pacific Wave 08 + video	Solidum
	12:00	13:15	LUNCH	
			<b>AFTERNOON</b>	Solidum
<b>5.5</b>	13:15	14:00	Tsunami Preparedness - Mitigation, Education and Awareness + video	Cunneen
<b>5.6</b>	14:00	15:00	Roles of Media in Tsunami Warning – Japan and US examples + video	Kong, Yamamoto
	15:00	15:30	COFFEE / TEA BREAK	
<b>5.7</b>	15:30	16:15	Group Discussion: Information Flow SOPs - Media and Public Information	All (Kong)
<b>5.8</b>	16:15	16:30	Workshop Summary Discussion	All
<b>6</b>			<b>CLOSING CEREMONIES</b>	Cunneen
<b>6.1</b>	16:30	16:45	Presentation of Certificates	All
<b>6.2</b>	16:45	17:00	Closing	IOC, Vietnam