



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

**PILOT COURSE  
ESSENTIAL TSUNAMI PREPAREDNESS: TSUNAMI EVACUATION MAPS,  
PLANS, AND PROCEDURES (TEMPP)**

**Training 3: Tsunami Evacuation Mapping**

**Comisión Permanente de Contingencias (COPECO)  
Choluteca, Honduras, 15-18 August 2016**

**Trainers:**

Bernardo Aliaga, Programme Specialist, Tsunami Unit, UNESCO IOC  
Carolina Hincapié-Cárdenas, Deputy Manager, Caribbean Tsunami Warning Program (CTWP)  
Carlos J. Rodríguez, PLS, PE, Global Matrix Engineering

**PROVISIONAL AGENDA**

Sess ion	Start Time	End Time	Topic	Speaker
<b>1-3</b>			<b>Monday, 15 August 2016</b>	
			<b>MORNING</b>	
			<b>Opening, End-to-End Tsunami Warning</b>	
	6:30	9:30	Transit to Tegucigalpa	
	9:30	10:00	Registration	COPECO
<b>1.1</b>	10:00	10:30	Opening Ceremonies	COPECO, Choluteca, IOC, CTWP
	10:30	11:00	GROUP PHOTO, BREAK	
<b>1.2</b>	11:00	11:15	Logistics and Administrative Items, Introductions, Course Overview	Carolina Hincapie, CTWP
<b>2.1</b>	11:15	11:45	End-to-end Tsunami Warning – Responding Rapidly and Effectively	Bernardo Aliaga, IOC
<b>2.2</b>	11:45	12:30	Community Preparedness – CARIBE-EWS, PTWS Tsunami Ready Pilot Recognition Programs	Hincapie
	12:30	13:30	LUNCH	
			<b>AFTERNOON</b>	
			<b>Science and Hazard, Inundation Mapping, Evacuation Mapping</b>	

2.3	13:30	14:00	Earthquake and Tsunami Hazards for Honduras and Central America - Overview and Results from Seismic Sources Expert Meeting (June 2016)	Aliaga; Silvia Chacon, Costa Rica
2.4	14:00	14:30	Tsunami Risk Assessment - Using Numerical Modeling to create Tsunami Inundation Maps – Overview; Guidelines for Establishing Tsunami Inundation Areas for Regions Not-modeled or with Low-hazard - Sambo Creek	Hincapie
2.5	14:30	15:00	Tsunami Mitigation and Preparedness - Importance of Evacuation Maps for Saving Lives – Overview	Aliaga
	15:00	15:15	COFFEE / TEA BREAK	
3.1	15:15	16:00	Using GIS to develop Evacuation Maps – Overview	Carlos Rodríguez, Global Matrix Engineering
3.2	16:00	16:30	QGIS software, IT requirements, and how to install and use	Rodriguez
3.3	16:30	17:00	Inputting ComMIT Inundation results (amplitude, arrival time) and other data layers into QGIS	Rodriguez
3-4			<b>Tuesday, 16 August 2016</b>	
			<b>MORNING</b>	
			<b>Using QGIS</b>	
3.3	8:30	9:00	Inputting ComMIT Inundation results (amplitude, arrival time) and other data layers into QGIS (continued)	Rodriguez
3.4	9:00	9:45	Hands-on activity	Rodriguez, Hincapie
3.5	9:45	10:15	Data necessary for tsunami evacuation map-making	Aliaga
	10:15	10:45	BREAK	
3.6	10:45	11:15	Integrating GIS data layers for evacuation map-making; Using QGIS to identify critical and sensitive infrastructure – schools, hospitals, hotels, airports, etc	Rodriguez
3.7	11:15	12:00	Hands-on activity	Rodriguez, Hincapie
	12:00	13:00	LUNCH	
			<b>AFTERNOON</b>	
			<b>Making the Evacuation map - guidance and hands-on sessions, Community engagement, Cedeño visit</b>	
3.8	13:00	13:45	Guidelines for defining the evacuation zone, including zones (number), colors, symbology	Aliaga
3.9	13:45	14:45	Hands-on activity - Making the evacuation map using paper and pencil	Aliaga, Hincapie
	14:45	15:00	COFFEE / TEA BREAK	
3.1	15:00	15:30	Using QGIS to decide on the optimal Tsunami Evacuation Zone and Assembly Points	Rodriguez
3.11	15:30	16:15	Hands-on activity	Rodriguez, Hincapie
3.12	16:15	16:45	Using QGIS to identifying Evacuation Routes	Rodriguez
4.1	16:45	17:30	Community engagement and participation - Objectives, Stakeholder Input, Cedeño visit plan	Hincapie

Sess ion	Start Time	End Time	Topic	Speaker
4-5			<b>Wednesday, 17 August 2016</b>	
			<b>MORNING</b>	
			<b>Cedeño - Walking the Evacuation Route</b>	
	8:00	9:00	Transit - Choluteca - Cedeño	
4.2	9:00	12:00	Town-watching' - Ground-truth evacuation map, walk evacuation routes	All
	12:00	13:00	LUNCH	

			<b>AFTERNOON</b>	
			<b>Cedeño - Community meeting</b>	
	13:30	14:00	Registration	
<b>5.1</b>	14:00	14:15	Opening	COPECO, Cedeño, IOC
<b>5.2</b>	14:15	14:30	Qué es un Tsunami y que lo genera ?	Jose Jorge Escobar
<b>5.3</b>	14:30	14:45	El Litoral Pacifico de Honduras está en peligro de ser afectado por un Tsunami?	Jose Jorge Escobar
<b>5.4</b>	14:45	15:00	Modelaje de inundación y sitios más vulnerables ante la llegada de olas de tsunami a la costa pacífica de Honduras	Lidea Torres
<b>5.5</b>	15:00	15:15	Como funciona el Sistema de Alerta Temprana ante Tsunami	Juan Jose Reyes , Marco Coello
<b>5.6</b>	15:15	15:30	Esta Preparado el Municipio de Marcovia para asistir a su población en caso de Tsunami.	Jose Avila
<b>5.7</b>	15:30	15:45	Mapa de evacuación por Tsunami para Cedeño y el programa Tsunami Ready en Cedeño	COPECO
<b>5.8</b>	15:45	16:00	Closing	COPECO, Cedeño, IOC

	16:00	17:00	Transit - Cedeño - Choluteca	
<b>6-7</b>			<b>Thursday, 18 August 2016</b>	
			<b>MORNING</b>	
			<b>Finalizing Evacuation Map</b>	
<b>6.1</b>	8:30	9:00	Finalizing Evacuation Map - Guidelines for Map publication (scale, text, legend) and Official Endorsement	Aliaga
<b>6.2</b>	9:00	9:30	Finalizing Evacuation Map – Summarizing feedback, Integrating observations from site visit	COPECO, Rodriguez
<b>6.3</b>	9:30	10:00	Using QGIS to create final map, with Standard Symbolology, Color, and Legend	Rodriguez
	10:00	10:30	BREAK	
<b>6.4</b>	10:30	11:30	Hands-on activity	Rodriguez, Hincapie
<b>6.5</b>	11:30	12:00	Using QGIS to create maps in different formats and platforms for Outreach and Education	Rodriguez
	12:00	13:00	LUNCH	
			<b>AFTERNOON</b>	
			<b>Socializing Evacuation Map, Closing</b>	
<b>6.6</b>	13:00	13:30	Sign Guidance (what and where to place), Socializing Evacuation Map and Plan: Complementary Map Information,	Hincapie, Rodriguez
<b>6.7</b>	13:30	14:30	Hands-on activity - Signage, Finalize Evacuation Map	Rodriguez, Hincapie
	14:30	14:45	COFFEE / TEA BREAK	
<b>6.8</b>	14:30	15:45	Group Presentations - Final Evacuation Maps	Hincapie, Groups
<b>6.9</b>	15:45	16:15	TEMPP4 Overview - Tsunami Response Plans and Drills, Tsunami Ready	Aliaga
<b>6.8</b>	16:15	16:30	TEMPP3 Training Evaluation	Hincapie
<b>7</b>	16:30	17:00	Closing Ceremonies	COPECO, Choluteca, IOC, CTWP
			<b>Friday, 19 August 2016</b>	
			<b>MORNING - Transit</b>	
	6:30	9:30	Transit to Tegucigalpa	All

			<b>AFTERNOON - Debrief and Planning</b>	
	13:00	15:00	TEMPP3 Debrief and TEMPP4 Planning	Trainers, Honduras