Using the TEMPP process to build a Tsunami Ready community - Honduras pilot

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Jorge Tejeda, Honduras GOAL
PTWS Next Priority (5 yrs) – Preparedness

Since 2014 PTWS PTWC New Products start, Preparedness:

- **Communities must know what to do and where to go when a tsunami is imminent (> 50% lack plans)**

- **ITIC capacity building course – Tsunami Evacuation Maps, Plans, and Procedures (TEMPP)**

EXERCISE PACIFIC WAVE 2015
Evacuation Map?

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>45%</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>NO</td>
<td>53%</td>
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</table>

Tsunami Signage
TEMPP Pilot Course: 2015-2017

- Reliable evacuation maps by communities and govt
- Global standardized tools and methodologies
- Direct outcomes for country:
  - Communities that know what to do and where to go
  - Country capability and tools to replicate community evacuation map process elsewhere
  - Community meets Tsunami Ready Intl guidelines

- Develop with Pilot – Central America, in Spanish
- 5 linked training workshops over 1.5 years (2015-17)
  Start with modeling. End with functional exercise
- Final Product: IOC Publication (2017) – TEMPP
  Review fr ICGs, Global TOWS Inter-ICG TT DMP
- Next: TEMPP in other countries subject to funding
Focus and Stakeholders:
Communities make Evacuation Maps

- Local workshops
- All Stakeholders
- GIS-facilitated maps
- Critical facilities, Schools, Hospitals, Special needs
- Safe Assembly areas
- Time of day, year
- Walking routes, Practice Exercises
## TEMPP Timeline - Partners

<table>
<thead>
<tr>
<th>TIMELINES</th>
<th>DATES</th>
<th>PROJECT RESPONSIBILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Course and Pilot</td>
<td>2015-2017</td>
<td>ITIC</td>
</tr>
<tr>
<td>IOC Circular letter to select host</td>
<td>May 11, 2015</td>
<td>ITIC, PTWS WG 3, USAID, IOC, CTWP</td>
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<tr>
<td>Countries submit questionnaire to host</td>
<td>May 11-22 2015</td>
<td>Central America - Pacific Coast Countries</td>
</tr>
<tr>
<td>Host country selected</td>
<td>Week May 25, 2015</td>
<td>Pilot Selection Committee</td>
</tr>
<tr>
<td>Course Development</td>
<td>Throughout</td>
<td>Course Development Team</td>
</tr>
<tr>
<td>Course Planning and Development</td>
<td>Meeting, June 22-26, 2015 at ITIC</td>
<td>Course Development Team: ITIC, CTWP, PMEL, IOC, NZ, Philippines, WA State</td>
</tr>
<tr>
<td>Course Guidance</td>
<td>Throughout</td>
<td>PTWS Task Team on Evacuation Planning and Mapping</td>
</tr>
<tr>
<td>TEMPP WORKSHOPS / TRAININGS</td>
<td>DATES</td>
<td></td>
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<tr>
<td>-------------------------------------------------------------------------------------------</td>
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<tr>
<td>TEMPP 2: Seismic Tsunami Sources for Honduras Meeting</td>
<td>29 Feb– 1 March 2016</td>
<td></td>
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<tr>
<td>TEMPP 4: Response Plans and SOPs, Socialization, Community Exercises</td>
<td>7-11 Nov 2016</td>
<td></td>
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<tr>
<td>TEMPP 5: Functional Exercise (PacWave17), Official TR Recognition Ceremony</td>
<td>15-17 Feb, 2017</td>
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</table>
TEMPP development, June 2015, Feb 2016

- PTWS Task Team on Evacuation Mapping and Planning and TOWS TTs - input
- TOWS Task Team on Disaster Management & Preparedness (TT-DMP)
  - TEMPP Project to establish Evacuation Mapping Guidelines (TT-DMP activity)

- Inundation and evacuation mapping best practices
- Inundation modeling training - ComMIT tool / MOST model
TEMPP2, Sources - Inundation, Feb 29 – Mar 3, 2016

• Identification of credible worst-case tsunami scenarios for inundation mapping
  Seismic Tsunami Sources for Honduras – Expert Mtg
• Tsunami Inundation Mapping for Evacuation – how to training
  Create Inundation map for community as ensemble of inundation scenarios.
  Output results in GIS formats

- Create Evacuation Map from Inundation Map using GIS and community process; Implement national Tsunami Ready program
TEMPP4, Response Plans, Socialization, Exercises
Nov 7-11, 2016

- Create Response Plan (warning / evacuation SOPs)
- How to conduct Community Exercise, Exercise Plan
- Create essential awareness materials (signage, map, flyer, card)
- Tsunami Ready guidelines
INTERNATIONAL TSUNAMI READY (I-TR) Guidelines

- **UNESCO IOC - 2015**
- **PTWS SC – consider Pilots**
- **Caribbean: St Kitts & Nevis (2016), DR, Haiti (2017)**
- **Pacific: Honduras (2017) – PTWS adapt Caribbean**
- **As result of TEMPP, Costa Rica – Pacific (2017) …**

<table>
<thead>
<tr>
<th>INTERNATIONAL TSUNAMI READY (I-TR)</th>
<th>DONE</th>
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<tbody>
<tr>
<td><strong>MITIGATION (MIT)</strong></td>
<td></td>
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<tr>
<td>MIT-1. Have designated and mapped tsunami hazard zones</td>
<td>X</td>
</tr>
<tr>
<td>MIT-2. Have a public display of tsunami information</td>
<td>X</td>
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<tr>
<td><strong>PREPAREDNESS (PREP)</strong></td>
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<tr>
<td>PREP-1. Produce easily understood tsunami evacuation maps as determined to be appropriate by local authorities in collaboration with communities.</td>
<td>X</td>
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<tr>
<td>PREP-2. Develop and distribute outreach and public education materials</td>
<td>X</td>
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<tr>
<td>PREP-3. Hold at least three outreach or educational activities annually</td>
<td>X</td>
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<tr>
<td>PREP-4: Conduct an annual tsunami community exercise.</td>
<td>X</td>
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<tr>
<td><strong>RESPONSE (RESP)</strong></td>
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<tr>
<td>RESP-1. Address tsunami hazards in the community’s emergency operations plan (EOP).</td>
<td>X</td>
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<tr>
<td>RESP-2. Commit to supporting the emergency operations center (EOC) during a tsunami incident if an EOC is opened and activated.</td>
<td>X</td>
</tr>
<tr>
<td>RESP-3. Have redundant and reliable means for a 24-hour warning point (and EOC if activated) to receive official tsunami threats.</td>
<td>X</td>
</tr>
<tr>
<td>RESP-4. Have redundant and reliable means for 24-hour warning point and/or EOC to disseminate official tsunami alerts to the public.</td>
<td>X</td>
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*(Caribbean Guidelines, 2015)*
TEMPP5, Functional Exercise, TR, Feb 15-17, 2017

- Official approval of Evacuation Maps
- Tsunami Exercise (COPECO NTWC; CODEM/CODEL warning dissemination, School/Community evacuation drill)
- Tsunami Ready Board Review, Cedeño TR recognition
Tsunami Signage - Honduras

- Adapt from other countries (US, NZ)
- ‘Tsunami Zone’, ‘Enter/Live Tsunami Ready Community’
PacWave17 – NTWC, Cedeno Evacuation

- 16 Feb – NTWC - Live PTWC msg receipt, PacWave17 Colombia – Ecuador scenario
- 17 Feb – Cedeno drill – Regional – Local dissemination, School / Community Evacuation
Thank You

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Bernardo Aliaga, IOC
Dr. Diego Arcas, Director, NCTR, PMEL

ITIC Essential Community Preparedness Capacity Building, Honduras, Central America, 2015-16