

FINAL REPORT UNESCO JFIT STRESCOM REGIONAL WORKSHOP ON "HYDRO-METEOROLOGICAL DISASTER RISK REDUCTION AND CLIMATE CHANGE ADAPTATION FOR COASTAL AND SMALL ISLAND COMMUNITIES"

JAKARTA, INDONESIA (1 – 3 MARCH 2011)

1. Introduction

In response to the need to increase awareness on hydro-meteorological hazards and climate change impacts of vulnerable communities, UNESCO Office Jakarta launched a three-year project titled Strengthening Resilience of Coastal and Small Island Communities towards Hydro-meteorological Hazards and Climate Change Impacts (StResCom). In 2010, UNESCO Office Jakarta received funding from Japanese Funds-in-Trust (JFIT) to implement this initiative in three countries: Indonesia, the Philippines and Timor Leste. The activities of the project focus on:

- Mainstreaming the project concept to regional, national, and local government programmes in Indonesia, the Philippines, and Timor Leste, which will involve development of strategic partnerships with related stakeholders and sectors to obtain their support and involvement. This will also entail programme development to ensure involvement of partners and stakeholders from the beginning.
- 2. Holding donor meetings that will be used to attract additional support and funding for the programme, which will involve activities to harmonize and sensitize the proposal in accordance to the priorities and insight of the potential donor.
- 3. Conducting baseline analysis and action research on coastal and small island communities in beneficiary countries.
- 4. Developing promotional materials of project activities.
- 5. Developing hydro-meteorological hazards and climate change educational and awareness-raising materials for Indonesia, the Philippines, and Timor Leste that are based on local contexts and knowledge.
- 6. Developing community training modules for hydro-meteorological disaster risk reduction and climate change adaptation for the region, taking case studies of Indonesia, the Philippines, and Timor Leste.
- 7. Developing lessons learned and good practice guide book / manual and disseminate them through a regional workshop.

Implementation of this project is jointly coordinated by UNESCO Office Jakarta's Disaster Risk Reduction Programme and Sciences for Society Unit.

In March 2011, the project organized an expert meeting and a regional workshop, titled "Hydrometeorological Disaster Risk Reduction and Climate Change Adaptation for Coastal and Small Island Communities" in Jakarta, Indonesia. The workshop's objectives were: a) to introduce the StResCom project to stakeholders and to secure their participation in project development and implementation; b) to get inputs from experts on the substance and main focus of the activities; and c) to obtain support from representatives of each participating countries. The first two days consisted of a workshop of experts, while the third day was opened to a wider audience to officially launch the project funded by the Japanese Funds-in-Trust. The main issues discussed at the workshop were: (a) the focus of the project; (b) the definition of key terms; and (c) activities to be implemented in the three beneficiary countries of the project, namely Indonesia, Philippines and Timor Leste. The agenda of the meeting is attached to this report (Annex I).

The general session on the third day was opened by Mr. Robert Lee, Deputy Director of UNESCO Office, Jakarta, followed by speeches from representatives of the three countries: Mr. Andi Rusandi from the Ministry of Marine Affairs and Fisheries, Indonesia; Ms. Susan Espinueva from the Philippine Atmospheric, Geophysical and Astronomical Services Administration; and Mr. Francisco Rosario from the National Directorate of Disaster Management, Timor Leste. Forty participants representing national and international NGOs, donors, government and UN agencies attended the third day of the regional workshop, while the expert meeting was attended by 15 participants. The lists of participants are attached to this report (Annex II and III).

2. Meeting conclusions

It was agreed by experts that the StResCom project should be unique in its focus and substance. Therefore the experts recommended that the project should: 1) focus on the contribution of indigenous knowledge to community-level disaster risk reduction (DRR) and climate change adaptation (CCA) in coastal and small island (CSI) communities in the three countries; and 2) aim to support greater integration of indigenous knowledge with scientific knowledge in DRR and CCA practice and to bring such practice into policy.

In this regard, the first year of the project will focus more on identification of the local and indigenous knowledge (LINK) in each country that are related to climate change and hydro-meteorological hazards (HH). A national workshop will be held in each country to identify LINK on HH and climate change as well as get the involvement of national and local players. Once the LINK is identified, action research on this will follow to record and document this knowledge.

In the second year, the project will focus on developing awareness-raising and educational materials and tools on hydro-meteorological DRR and CCA for CSI communities based on the relevant indigenous knowledge and local contexts. The third year will focus on taking this knowledge into policy as well as implementation on pilot sites.

The expert meeting concluded that several organizations present at the meeting will continue to be involved in the future activities in each country, such as: the Haburas Foundation in Timor Leste, the Center for Disaster Preparedness (CDP) in the Philippines, and the Indonesian Society for Disaster Management (MPBI) in Indonesia. First activity they will be involved with would be to organize the national workshops in each country.

3. Details Of Discussions

3.1. Experts Workshop (1-2 March)

It was agreed that for the first year of the project, activities in each country will focus on:

- 1. Collecting, documenting, and testing/ validating examples of local and indigenous knowledge related to hydro-meteorological hazards and climate change impacts/ adaptation in coastal and small island communities in each country.
- 2. Stakeholder identification and partnership building.
- 3. Participatory action research to take place in 2-3 communities per country, the number of communities to be finalized depending on the budget: one urban coastal settlement, one rural coastal settlement, and a small island. This would be slightly adjusted for Timor Leste.
- 4. UNESCO will develop the ToR and provide information on the budgets for national workshops and action research in each country.

It is expected that during, or before, the national workshops the following objectives would be met:

- Identify and share experiences of what efforts have already been made in the field (to integrate LINK with scientific knowledge in DRR and CCA practice), taking stock of lessons learned and analysing gaps and needs; based on these experiences;
- Finalize working definitions of terms such as "coastal and small island communities", within each country's context;
- Identify the communities where action research will take place (depending on country, this may take place before the national workshop, in which case the workshop participants would mainly consist of stakeholders from the selected sites);
- Identify potential additional partners and stakeholders;
- Identify potential additional funding sources, that are unique to each country.

In implementing activities for the first year, it was agreed that the following should be taken into consideration concerning:

Local and Indigenous knowledge (LINK):

- It was agreed that LINK is analogous to terms such as local knowledge, traditional ecological knowledge, indigenous technical knowledge, and endogenous knowledge.
- In this broad sense of the term, LINK refers to the whole array of knowledge related to disaster risk reduction and climate change adaptation, including perceptions and understandings of climatic changes and related natural phenomena; livelihood sustainability practices (such as livelihood diversification); survival, coping and mitigation strategies related to hydro-meteorological hazards; and cultural belief systems (including lifestyles and material culture/housing, etc.).
- It is important to recognize that knowledge can be tacit and/ or explicit; inside/ outside; and local/global.
- While LINK is often placed in opposition to scientific knowledge, it is necessary to recognize that LINK can also be scientific, in that it has its own verification procedures;
- It is necessary to consider the transferability indigenous knowledge, i.e., how context-specific LINK can be accessed, documented and adapted for use in other locales. It is important to distinguish knowledge that is specific to a particular context, and knowledge that can be taken out of its original context (i.e., is transferable and adaptable).
- Some aspects of LINK that originated hundreds of years ago may no longer be compatible with current lifestyles, or relevant in the context of recent changes, e.g., in the climate.
- It is also important not to over-romanticize LINK, and to acknowledge that LINK is dynamic and has interacted with external forces and incorporated non-local information and practices (including scientific knowledge) over time. Thus, it may also include the opportunistic integration of knowledge that leads to environmental degradation.

To better integrate LINK into CCA and DRR, it is important to:

- Find ways to make the two different knowledge bases accessible, readable and useful to one another.
- Recognize that integrating LINK with scientific knowledge is a long-term process that requires the building of relationships and trust.
- Consider how LINK can be made accessible and useful, or "institutionalized" outside its local community context; and how scientific knowledge can be internalized within communities.
- Consider how LINK can be brought into policy at different levels, e.g., at community, local, provincial, national government levels, etc.

Climate change adaptation and disaster risk reduction:

- At the local levels, both are considered (no clear distinction made).
- The term CCA is a relatively recent, but there is much similarity with DRR
- The two should work closer together.

Participatory action research:

- It is necessary to involve communities and stakeholders in such a way that they are motivated and willing to engage in a process of guided discovery.
- Stakeholders to be involved include community leaders and groups, traditional leaders, local and national governments, local NGOs and INGOs, local academics and experts, media, etc.
- Various tools and methodologies that are available include those outlined in Mercer et al. (2008, 2009) and P3DMapping (<u>http://p3dmfordrr.com</u>).
- Action research will have a shared framework across the three countries, but will be flexible to fit to each country's needs.

Coastal and small island communities:

- Coastal problems do not just involve people in coastal areas, as they are not isolated from others. They are affected by activities upstream, for example. Moreover, what constitutes a "small island" can be different in each country's contexts. Each country needs to come up with its own working definition at its national workshop.
- Common issues facing CSI include:
 - Gradual-onset climate change impacts such as sea-level rise, coastal erosion, and drought/saline intrusion.
 - Sudden-onset phenomena such as storm surge, typhoons, coastal flooding, strong winds, and intense rainfall.

In principle, unless alternative working definitions are developed in each country, definitions used by the UN-ISDR will be adopted and used in each country.¹

The following activities are planned to take place in the three countries: Timor Leste:

- Participants from Timor Leste (NDMD, CVTL, and Haburas) recommended that Haburas Foundation to take lead and organize the national workshop in Timor Leste, tentatively planned for the first week of April 2011.

¹ All three countries participate in the Hyogo Framework for Action, which implies that they agree to the definitions used by UN-ISDR.

- Invitees will include NDMD, Ministry of Environment, UNFCCC representative, CBDRM Working Group, different Ministries (of Health; Education; Agriculture; and Forest), Universities (TL, UNPAZ), DDMC, FONGTIL, Oxfam, IOM, CVTL, Save the Children, Plan International, World Vision, and Lao Hamutuk.
- The organizing will be done in a month by Haburas, with the involvement of Red Cross Volunteers, and DDMC. Action research will also be implemented in a similar manner.

Philippines:

- CDP will take lead and set up a national StResCom steering committee.
- Other members of this committee will include PAGASA, Office of Civil Defense, Climate Change Commission, and DRR Net Philippines.
- Criteria for site selection will include vulnerability, availability of organizations working in the area, and their ability/willingness to share data. Tentative sites: Small Island San Miguel Tabacco, Albay, where Coastal CORE works; Urban coastal Ormoc City, where Rural Development Institute works; and Rural coastal Batanes (partner organization to be identified).
- National Workshop planned to take place in the third week of May, data-gathering from June to September, and analysis and writing from October to December.

Indonesia:

- All those present will be involved in at the national workshop in Indonesia. Indonesian Society for Disaster Management (MPBI) will take the role of coordination.
- The country will be divided into three regions for the purposes of StResCom implementation: West (Sumatera and Kalimantan), Middle (Java and Sulawesi), and East (Bali, NTT, Maluku, Papua).
- Workshop will be held in the fourth week of May.
- The duration of the action research will be three months, and will involve local communities and governments, universities, and NGOs such as MPBI, TDRMC, Kogami, Ulayat, and IDEP.

After the first year, and pending on funding, the project would focus on:

- Analysis of stakeholders, gaps and needs;
- Development of awareness-raising and educational materials and tools taking into account LINK as well as existing materials and tools
- Policy mainstreaming/ creating policy linkages through policy recommendations, building on the previous work of UNESCO, e.g., Indigenous Knowledge Disaster Risk Reduction: Policy Note (accessible at <u>http://www.unisdr.org/publications/v.php?id=8853</u>);
- Facilitating the integration of indigenous and scientific knowledge through the publication of guidelines and/ or manuals.

3.2. General Session (3 March)

The conclusions of the panel discussion on the use of LINK for DRR and CCA in CSI communities during the general session were as follows:

 <u>Community</u>: communities that are the focus of this project are CSI communities exposed to hydro-meteorological hazards and climate change impacts. These communities are located in diverse locations. How we deal with the diversity of these communities will be an important challenge of this project.

- 2. <u>Indigenous Knowledge</u>: it is important to recognize and utilize indigenous knowledge, and the challenge is to access it and make it accessible to others, and at the same time recognize its dynamism. The validation and verification of LINK is also important.
- 3. <u>Creating linkages</u>: an important focus of this project is on exploring how to link different kinds of knowledge, and make knowledge accessible and useable.
- 4. <u>Policy</u>: it is necessary to recognize that policy can be formal/governmental (ranging from international to national to local) but can also be informal/ decision-making processes.

It was clear from the interventions from the floor that numerous on-going projects exist in the field of DRR and CCA. It was generally agreed that UNESCO's niche are its focus on LINK, namely: to strengthen existing linkages between LINK, DRR and CCA; to make LINK more accessible; to influence governments at the national level to ensure that people's voices come through; and to widely disseminate the outcome to other UNESCO member states. UNESCO can thus play a key role in bringing practice into policy in the field of CCA and DRR.

4.	Follow-up Actions	
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Due date	Action	Responsible member(s)	Other comments
March 2011	Finalize workshop report and distribute CD-ROMS with presentations	UNESCO Office, Jakarta	
April 2011	Develop promotional materials for the StResCom project	UNESCO Office, Jakarta	To be distributed to potential donors and at national workshops
April 2011	Develop ToR for National Workshops and finalize contracts with responsible organizations	UNESCO Office, Jakarta with Haburas Foundation (Timor Leste), CDP (Philippines) and MPBI (Indonesia)	Scoping of organizations to be involved in the national workshops will be done by each organization in their respective countries.
May 2011	Hold National Workshops	Haburas Foundation, CDP, and MPBI	A representative from UNESCO Office, Jakarta will be present
May 2011	Develop ToR for Participatory Action Research and finalize contracts with responsible organizations	UNESCO Office, Jakarta with Haburas Foundation (Timor Leste), CDP (Philippines) and TBD (Indonesia)	
May 2011 onwards	Implementation of Participatory Action Research	Haburas Foundation, CDP and TBD, in collaboration with other national/ local organizations and local communities	



Annex I

Final Agenda

Day 1, Experts Meetin	ıg (Tuesday, 1 March 2011)			
8:00 am – 8:20 am	Introduction			
• - - -	- Ardito Kodijat, UNESCO Off	ice, Jakarta:		
		Coastal and Small Island Co I Climate Change Impacts (S		
8:20 am – 8:50 am	Presentation 1			
- - 	ː Lisa Hiwasaki, UNESCO Of	fice, Jakarta:		
			n efforts to Strengthen the logical Hazards in Indonesia,	
8:50 am – 9:00 am	Discussions on Introduction	and Presentation 1		
9:00 am – 9:30 am	Presentation 2			
	Rajib Shaw, Kyoto Universit	y, Japan:		
	Meeting the challenges of h	ydro-meteorological hazards	in Southeast Asia	
9:30 am – 10:00 am	Presentation 3			
	Emanuel Luna, Center for D	isaster Preparedness, the Pl	hilippines:	
	Increasing the resilience of	communities to hydro-meteor	rological hazards	
10:00 am – 10:15 am	Discussions on Presentatior	ns 2 and 3		
10:15 am – 10:30 am	Coffee Break			
10:30 am – 11:30 am	Country presentations on Hydro-meteorological hazards and risks			
3	Presentation 4	Presentation 5	Presentation 6	
	Widada Sulistya	- Fransisco do Rosario	- Susan Espinueva	
	BMKG, Indonesia	NDMC, Timor Leste	PAGASA, the Philippines	

11:30 am – 12:00 pm	Discussions on presenta	tions 4 - 6			
12:00 pm – 1:00 pm	Lunch Break				
1:00 pm – 2:00 pm	Country presentations or hazards	n Community vulnerabilities tow	/ard hydro-meteorological		
	Presentation 7	Presentation 8	Presentation 9		
	Agung Wibowo	Louis Pedro	- Shirley Torrecampo- Bolanos		
	IDEP, Indonesia	Red Cross, Timor Leste	Coastal CORE, the Philippines		
2:00 pm – 2:30 pm	Discussions on presenta	tions 7 - 9			
2:30 pm – 2:45 pm	Coffee Break				
2:45 pm – 3:15 pm	Presentation 10				
	-	, Ministry of Marine Affairs and s of coastal and small island co			
3:15 pm – 3:45 pm	Presentation 11				
	Jessica Mercer, OXFAM, Timor Leste:				
	Integrating indigenous knowledge into disaster risk reduction and climate change adaptation				
3:45 pm – 4:15 pm	Discussions on presenta	tions 10 and 11			
4:15 pm to 5:00 pm	Preparations for Day 2				
6:00 pm -	Welcome Dinner				
Day 2, Experts Meeti	ng (Wednesday, 2 March 2	011)			
8:00 am – 8:15 am	Introduction to Day 2	·····			
8:15 am – 9:45 am	Working Group discussio	ons on key terms used for the p	roject:		
	Do our understandings d views are the most empo	iffer? If so, how do they comple owering?	ement one another? Which		

9.45 am – 10:30 am	Plenary Session on Working Group discussions
10:30 am – 10:45 am	Coffee Break
10:45 am – 11:45 am	Working Group discussions on key questions, such as:
	How can we best combine our resources and capacities to contribute to strengthening resilience to hydro-meteorological hazards in coastal and small-island communities in our own countries?
	How can we link our DRR efforts more strongly to CCA and development in order to optimize the benefits we bring to the communities we engage with in this project?
	How can we effectively and equitably integrate both indigenous and scientific ways of knowing in our collaborations with these communities?
12:00 pm – 1:00 pm	Lunch Break
1:00 am – 1:45 pm	Plenary Session on Working Group discussions on key questions
1:45 pm – 2:45 pm	Working Group discussions on where to go with the project in each country
2:45 am – 3:15 pm	Coffee Break
3:15 pm – 4:00 pm	Plenary Session for country presentations
4:00 pm – 5:00 pm	Preparations for Day 3
Day 3, General Meetir	ng (Thursday, 3 March 2011)
8:00 am – 8:30 am	Registration
8:30 am – 9:00 am	Opening Ceremony
	Robert Lee, Deputy Director, UNESCO Office, Jakarta
	Subandono Diposaptono, Director for Coastal and Ocean Affairs, Ministry of Marine Affairs and Fisheries, Indonesia
	Susan Espinueva, Director of Hydro-meteorological Division, The Philippine Atmospheric, Geophysical and Astronomical Services Administration
	Francisco do Rosario, Director of National Disaster Management Directorate, Timor Leste
9:00 am – 9:10 am	Takeshi Mori, UNESCO Office, Jakarta
	JFIT and its contribution to StresCom project

9:10 am – 9:40 am	Ardito Kodijat and Lisa Hiwasaki, UNESCO Office, Jakarta
	Introduction to StResCom project and the workshop
9:40 am – 10:00 am	Coffee Break
10:00 am – 12:00 am	Panel Discussion: Use of Indigenous Knowledge for disaster risk reduction and climate change adaptation in coastal and small island communities
	Moderator: Rajib Shaw, Kyoto University, Japan
	Members of the panel:
	Emanuel Luna, Center for Disaster Preparedness, the Philippines
	Jessica Mercer, OXFAM, Timor Leste
	Louis Pedro, Red Cross, Timor Leste
	- Agung Wibowo, IDEP, Indonesia
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12.00 pm – 1.00 pm	Lunch Break
1:00 pm – 2:30 pm	Country-specific presentations on Hydro-meteorological hazards and community vulnerabilities in Indonesia, the Philippines and Timor Leste (30 minutes per country)
2:30 pm – 2:45 pm	Coffee Break
2:45 pm – 3:30 pm	Discussions: Next steps in project implementation
3:30 pm – 3:45 pm	Closing remarks



Annex II

List of Participants Days 1-2

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Annex III

List of Participants 3 March 2011

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Annex IV

Final List of Presentations

- 1. DRR & CCA efforts to strengthen the resilience of communities vulnerable to hydrometeorological hazards in Indonesia, the Philippines and Timor Leste, presented by Ms. Lisa Hiwasaki from UNESCO Office Jakarta, Indonesia.
- 2. **Hydro-meteorological hazards and risks in Indonesia**, presented by Mr. Yunus S Swarinoto from the Meterological Climatological and Geophysical Agency (BMKG), Indonesia.
- 3. **Meeting the challenge of hydro-meteorological hazards in Southeast Asia**, presented by Mr. Rajib Shaw from Kyoto University, Japan.
- 4. **Increasing the resilience of communities to hydro-meteorological hazards**, presented by Mr. Emannuel Luna from Center for Disaster Preparedness, the Philippines.
- 5. **Hydro-meteorological hazards and risks in Timor Leste**, presented by Mr. Francisco do Rosario from National Directorate for Disaster Mitigation, Timor Leste.
- 6. Addressing vulnerabilities of coastal and small island communities towards climate change, presented by Mr. Subandono Diposaptono from Ministry of Marine Affairs and Fisheries, Indonesia
- 7. Community vulnerabilities towards hydro-meteorological hazards Stories from Perancak and YehMbang, Jembarana, Bali, presented by Mr. Agung Wibowo from IDEP Foundation, Indonesia.
- 8. **Community vulnerabilities towards hydro-meteorological hazards in Timor Leste**, presented by Mr. Luis Pedro Pinto from Red Cross, Timor Leste.
- 9. Coastal and island communities' vulnerabilities towards hydro-meteorological hazards The Philippines case, presented by Ms. Shirley Bolanos from Coastal CORE, Inc, the Philippines.
- 10. Integrating Indigenous Knowledge into DRR and CCA, presented by Ms. Jessica Mercer from OXFAM, Timor Leste
- 11. **Hydro-meteorological hazards and risks in the Philippines**, presented by Ms. Susan Espinueva from PAGASA, the Philippines.