

Vulnerability Profile and Risk Perception towards an Inclusive DRR for Flood-Vulnerable Communities in Davao City, Philippines

¹Karen Joyce G. Cayamanda, ²Merlyne M. Paunlagui,
³Rowena D.T. Baconguis, ⁴Maria Ana T. Quimbo

¹Humanities Department, CHSS-University of the Philippines - Mindanao; kgcayamanda@up.edu.ph

²CPAf, University of the Philippines - Los Banos; mmpaunlagui@up.edu.ph

³CPAf, University of the Philippines - Los Banos; rdbaconguis@up.edu.ph

⁴CPAf, University of the Philippines - Los Banos; mtquimbo@up.edu.ph

ABSTRACT

Vulnerable communities of Davao City, Southern Philippines has experienced flooding that leads to catastrophic effects costing damage to properties and loss of lives. Communities need to build its resiliency to respond to flooding and mitigate its negative impacts, while policy makers and leaders need to consciously, regularly review and update its existing policies to address gaps and promote effective community engagement. This paper highlights the results from the quantitative phase of the study to examine and analyze the respondents' vulnerability, awareness and perception of flood risks. A survey using multi-stage cluster sampling was conducted among 353 respondents from the top five (5) flood vulnerable barangays. Data from the key informant interviews and focus group discussions were also integrated to provide an in-depth explanation of the patterns emerging from the survey.

Results of the study revealed that the vulnerability is associated with socio-demographic characteristics, experience in flooding and responses to flooding. Moreover, risk reduction strategies can be further enhanced through a risk communication management using a localized and participatory approach in the proper knowledge transfer of flood risk communication among the stakeholders involved. Community-based policies and well-defined communication processes must be strengthened to promote inclusive approach towards effective community-based disaster preparedness and management.

Keywords: inclusive disaster resiliency; risk reduction; flood-risk communication, flood-vulnerable communities; Davao City