

4th International Conference on **Biodiversity**

June 15-17, 2015 Las Vegas, USA

Flood hazard mapping and assessment based on community perception in remote area of eastern Indonesia (A case study in west Malaka sun district of belu regency east nusa tenggara province, Indonesia)

Apolonia Diana Sherly da Costa
University of Jena, Germany

Community perception has its contribution in the flood disaster management process. This research aimed at producing the flood event map according to the community perception. The collected data is based on a participatory approach. The sampling methods applied in this study were purposive sampling and stratified sampling. The flood data was obtained through interview with 60 respondents based on research questionnaire and Focus Group Discussion (FGD). The results of interview from respondents and FGD have shown similar flood data on flood frequency, flood extent and water depth. The frequency of flooding occurred from 1939, 1959, 1975, 1979 and 1999 until 2012. Every time flood hits the study area, all sites were inundated. While, the average duration of inundation in the study areas (Lasaen, Umatoo and Fafoe) was started from 24 hours (1day) it's minimum and up to three weeks or up to 1 month evenly it's maximum. The water depth of three villages varies between 60 cm and 300 cm. Thus, possess a direct impact on people daily needs with losses reaching more than Rp. 1,000,000,00 and Rp. 200,000,00 it's less minimum.

Biography

Apolonia Diana Sherly da Costa has achieved her Master of Science Graduation in Environmental Science contetrated in Geo-Info for Spatial Planning and Disaster Management in Gadjah Mada University, Yogyakarta, Indonesia. Now, she is a Candidate of Doctor in Institute of Social Geography, University of Jena, Jena Germany. Besides, she is a Young Researcher in Community Association for Disaster Management, the Non-Government Organization in Kupang City of East Nusa Tenggara Province, Indonesia and Young Scientists in Indonesian National Committee for Applied Systems Analysis (INCASA) under Presidential Working Unit, Indonesia.

noidacosta_baucau@yahoo.co.id

Notes: