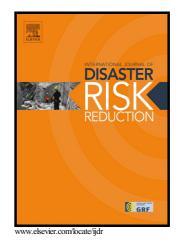
Author's Accepted Manuscript

POSSIBLE FACTORS INFLUENCING NGOS' PROJECT LOCATIONS FOR DISASTER MANAGEMENT IN BANGLADESH

Haruna Moroto, Maiko Sakamoto, Tofayel Ahmed



PII:S2212-4209(17)30301-1DOI:https://doi.org/10.1016/j.ijdrr.2017.10.011Reference:IJDRR691

To appear in: International Journal of Disaster Risk Reduction

Received date:5 May 2017Revised date:9 October 2017Accepted date:9 October 2017

Cite this article as: Haruna Moroto, Maiko Sakamoto and Tofayel Ahmed, POSSIBLE FACTORS INFLUENCING NGOS' PROJECT LOCATIONS FOR DISASTER MANAGEMENT IN BANGLADESH, *International Journal of Disaster Risk Reduction*, https://doi.org/10.1016/j.ijdrr.2017.10.011

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

POSSIBLE FACTORS INFLUENCING NGOS' PROJECT LOCATIONS FOR DISASTER MANAGEMENT IN BANGLADESH

Haruna Moroto¹, Maiko Sakamoto² and Tofayel Ahmed³

 ¹ Dept. of International Studies, Graduate School of Frontiers Science, University of Tokyo, 5-1-5, Kashiwanoha, 277-8563, Japan, e-mail: haru88m@gmail.com
² Dept. of International Studies, Graduate School of Frontiers Science, University of Tokyo, 5-1-5, Kashiwanoha, 277-8563, Japan, e-mail: m-sakamoto@k.u-tokyo.ac.jp
³ Japan Association of Drainage and Environment (JADE), House# 66 (Flat-A4), Road#08, Niketon, Gulshan-1, Dhaka-1212, Email: tofayelahmed74@gmail.com

ABSTRACT

Although non-governmental organizations (NGOs) are important actors in the field of disaster management (DM) in natural disaster-prone countries such as Bangladesh, the spatial distribution of their activities and factors influencing their site selection are not well researched. Therefore, this research elucidated the spatial distribution of NGOs working in DM in Bangladesh for the past seven years with a geographic information system (GIS) and used logistic regression to analyze possible factors influencing their decisions on project locations. Based on our data, at the sub-municipal (i.e., union) administrative level, NGOs did not generally locate in disaster-affected or disaster-vulnerable areas; rather, they located in areas that were more accessible. Thus, we found a scarcity of NGO interventions in disaster-vulnerable areas, meaning that there is a scarcity of interventions for those who need support the most. Further, using the results from the regression modelling, we calculated the probability of each sub-municipal area being selected by NGOs for their activities, and revealed the socially disaster vulnerable areas where NGOs are less likely to intervene. Further, we superimposed the probability distribution on the hazard map, and identified both socially and physically disaster vulnerable areas.

Keywords: NGO, project location, GIS, disaster management, logistic regression

1. INTRODUCTION

Bangladesh is vulnerable to natural disasters, especially cyclones and floods, due to its landform and geographical location. The World Bank (2013) reports that one-third to one-half of the country floods every year and the most devastating recent disaster was Cyclone Sidr, which hit Bangladesh in the middle of November 2007. It caused 3,000 deaths and 1,000 missing persons, and affected 55,000 people. Table 1 shows that, from 2007 to 2015, more than 90% of the people affected by natural disasters in Bangladesh were affected by floods or cyclones.

Download English Version:

https://daneshyari.com/en/article/7471945

Download Persian Version:

https://daneshyari.com/article/7471945

Daneshyari.com