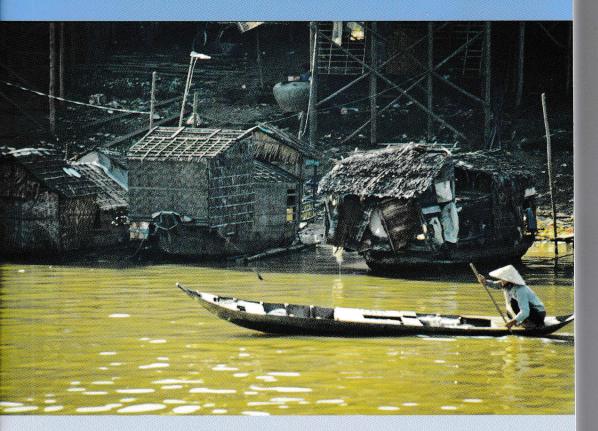


The Environments of the Poor in Southeast Asia, East Asia and the Pacific



Edited by Aris Ananta • Armin Bauer • Myo Thant

The Environments of the Poor in Southeast Asia, East Asia and the Pacific

Edited by Aris Ananta • Armin Bauer • Myo Thant

ADB

Asian Development Bank

ADBInstitute

Asian Development Bank Institute



INSTITUTE OF SOUTHEAST ASIAN STUDIES
Singapore

o the ents nent. dies tical

is an

nore r of hing tors least First published in Singapore in 2013 by ISEAS Publishing Institute of Southeast Asian Studies 30 Heng Mui Keng Terrace, Pasir Panjang Singapore 119614

E-mail: publish@iseas.edu.sg *Website:* http://bookshop.iseas.edu.sg

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the Institute of Southeast Asian Studies.

© 2013 Asian Development Bank

The responsibility for facts and opinions in this publication rests exclusively with the authors and their interpretations do not necessarily reflect the views or the policy of ADB, ADB Institute, ISEAS or their supporters.

ISEAS Library Cataloguing-in-Publication Data

The environments of the poor in Southeast Asia, East Asia, and the Pacific / edited by Aris Ananta, Armin Bauer, and Myo Thant.

- 1. Southeast Asia-Environmental conditions-Congresses.
- 2. East Asia-Environmental conditions-Japan-Congresses.
- 3. Poverty-Environmental aspects-Southeast Asia-Congresses.
- 4. Poverty-Environmental aspects-East Asia-Congresses.
- 5. Poverty-Environmental aspects-Islands of the Pacific-Congresses.
- 6. Economic development-Environmental aspects-Southeast Asia-Congresses.
- 7. Economic development-Environmental aspects-East Asia-Congresses.
- I. Ananta, Aris, 1954-
- II. Bauer, Armin.
- III. Myo Thant, 1957-

IV. Conference on The Environments of the Poor (2010 : Delhi, India) HC415 E5E531 2013

ISBN 978-981-4517-99-7 (soft cover) ISBN 978-981-4519-00-7 (e-book, PDF)

Cover photo: Life on the river in Cambodia. *Source:* ADB Photo databank.

Typeset by International Typesetters Pte Ltd Printed in Singapore by Mainland Press Pte Ltd

CONTENTS

Preface

List of Contributors

Part I OVERVIEW

1. A New Triple-Win Option for the Env Aris Ananta, Armin Bauer and Myo Th

Part II EAST ASIA

- (People's Republic of China and
- 2. Poverty, Environment, and Climate C Grasslands of China *Tsui Yenhu*
- 3. Climate Change, Food Security, and F People's Republic of China *Qi Gubo*
- 4. The Physical and Social Environment Urban Poor Wendy Walker, Madhumita Gupta, and
- 5. Benefiting the Poor, the Environment, Sector with Small Enterprises and Gre People's Republic of China Satoshi Sasaki
- 6. Environment, Economic Growth, and Republic of Korea Yong-Seong Kim

CONTENTS

Preface	xiii
List of Contributors	x
 Part I OVERVIEW 1. A New Triple-Win Option for the Environment of the Poor Aris Ananta, Armin Bauer and Myo Thant 	3
Part II EAST ASIA (People's Republic of China and Republic of Korea)	
2. Poverty, Environment, and Climate Change in the Grasslands of China <i>Tsui Yenhu</i>	15
3. Climate Change, Food Security, and Poverty in the People's Republic of China <i>Qi Gubo</i>	32
4. The Physical and Social Environment of the Chinese Urban Poor Wendy Walker, Madhumita Gupta, and Daniel Roberts	46
5. Benefiting the Poor, the Environment, and the Private Sector with Small Enterprises and Green Jobs in the People's Republic of China Satoshi Sasaki	60
6. Environment, Economic Growth, and Poverty in the Republic of Korea <i>Yong-Seong Kim</i>	79

rieval oying, Asian

th the ADB,

by

sses.

Contents

232

¥

Co	nte	nts
00		1110

Par	t III	PACIFIC ISLANDS	
7.	Smal	ate Change Adaptation and Poverty Reduction in I Islands of the Pacific Pla Jokhan and Murari Lai	99
8.	Adap	Role of Development Organizations in Pro-Poor otation to Global Warming in the Pacific Islands <i>Bullen</i>	106
Par	t IV	MAINLAND SOUTHEAST ASIA (Cambodia, Thailand, Vietnam)	
9.		rty and the Environment in Rural Cambodia <i>Kimsun and Sry Bopharath</i>	145
10.	Optio Steph	servation Agriculture in Cambodia: A Triple-Win on aane Boulakia, Pen Vuth, Sann Vathana, Stephane Chabierski, Olivier Gilard	159
11.	Vietr	es of the Poor on Climate Change in Thailand and nam nann Waibel, Songporne Tongruksawattana, and Marc Voelker	170
12.		Thai Farmers' Adaptation to Climate Change	187
Paı	rt V	ARCHIPELAGIC SOUTHEAST ASIA (Indonesia, Malaysia, Philippines)	
13.	Indo	Political Economy of Environmental Policy in onesia nto A. Patunru	203
14.	from <i>Aris</i>	pering in Environmental Degradation: An Illustration a an Upland Area, South Kalimantan, Indonesia Ananta, Haris Fadillah, Ahmad Yunani, Gusti Fahmi ansyah, and Danang Adhinata	221
15	ΑC	king a Living in the Face of Environmental Change: Case in an Indigenous Community in Sarawak, Malaysia ng Swee Kiong and Ling How Kee	232

vi

16. The Response of Rural Coastal Ho Milenyo in the Philippines Jonna P. Estudillo

17. Life Along Manila's Flooding River Emma Porio

18. Quantifying the Health Risks from Flood Water in Metro Manila Tran Thi Viet Nga and Kensuki Fuku

19. Slum Poverty in the Philippines: C Agenda Drive Public Action? Marife Ballesteros

ontents	Contents	vii
99	 The Response of Rural Coastal Households to Typhoon Milenyo in the Philippines Jonna P. Estudillo 	243
106	17. Life Along Manila's Flooding Rivers Emma Porio	256
100	18. Quantifying the Health Risks from Pathogens in the Flood Water in Metro Manila <i>Tran Thi Viet Nga and Kensuki Fukushi</i>	271
145	19. Slum Poverty in the Philippines: Can the Environment Agenda Drive Public Action? <i>Marife Ballesteros</i>	286
159		
,		
170		
187		
203		
221		
232		

15

MAKING A LIVING IN THE FACE OF ENVIRONMENTAL CHANGE A Case in an Indigenous Community in Sarawak, Malaysia

Wong Swee Kiong and Ling How Kee

Malaysia is divided into thirteen states and three federal territories. Sarawak, located on the island of Borneo, is the largest state in Malaysia. It covers 124,450 square kilometres. Sarawak is richly endowed with natural resources, especially liquefied natural gas, petroleum, and rainforest. Its economy has historically been dominated by the primary sectors (agriculture, forestry, mining, and quarrying), mostly agriculture. But in line with the federal government's policy of economic growth through industrialization, the state government began promoting secondary and tertiary sectors in the 1970s (Kasim 1990). Sarawak was transformed from a poor backwater to a vibrant and industrializing state. By international standards, the level of poverty in Sarawak is now quite low. In 2009, 5.3 per cent (27,100 households) in Sarawak were found living in poverty and 1.0 per Making a Living in the Face of Envir

cent in extreme poverty. The na and extreme poverty were 3.8 per (EPU 2013). The incidence of po

Parts of the transformative pro tric dam, commercial agriculture, parts of the rainforest (Ichikawa only caused a dwindling of the of what remains. The primary eco has been as a source of income f timber and its timber-based produ substantial earnings to Sarawak. I 9 per cent (RM7.9 billion) of the commodities in Sarawak though t export earnings of timber product by a marginal increase to RM7 Industry Development Corporatio of raw material for the residents of the interior (for rattan baskets and a source of wild boar and hunter-gatherers and indigenous su settled cash-crop peasants, planta (Wong 1992 cited in King 1993). I and petrochemical industries and such as oil-palm, replaced the sma such as rubber, cocoa, and pepper

In this chapter, we look at how d the lives of people who have a d environment, particularly the indig based on fieldwork we carried **out** indigenous community experienced as a result of development. We we changes affected their ways of **maki** the views of the affected people, that aims to let the voices of the **lo** 2000*a*; Narayan et al. 2000*b*). By in able to gain insights into the **wa** changes. We chose two villages³ **nea** (one of three administrative districts cent in extreme poverty. The national overall incidence of poverty and extreme poverty were 3.8 per cent and 0.7 per cent, respectively (EPU 2013). The incidence of poverty is higher in the rural areas.¹

Parts of the transformative process, such as the Bakun hydroelectric dam, commercial agriculture, and logging, have required clearing parts of the rainforest (Ichikawa 2007). Development projects not only caused a dwindling of the rainforest,² but also the degrading of what remains. The primary economic value of Sarawak's rainforest has been as a source of income for the state through the exports of timber and its timber-based products. Timber industries have brought substantial earnings to Sarawak. In 2008, timber products constituted 9 per cent (RM7.9 billion) of the total export earnings of the major commodities in Sarawak though there was a slight drop in the total export earnings of timber products to RM6,698,067 in 2009, followed by a marginal increase to RM7,354,341 in 2010 (Sarawak Timber Industry Development Corporation 2011). The rainforest is a source of raw material for the residents of many of the rural communities of the interior (for rattan baskets and mats, and wooden furniture), and a source of wild boar and wild vegetables for food. Nomadic hunter-gatherers and indigenous swidden cultivators gradually became settled cash-crop peasants, plantation labourers, and urban workers Wong 1992 cited in King 1993). But the introduction of wood-based and petrochemical industries and large-scale plantation cultivation, such as oil-palm, replaced the small-holding cultivation of cash crops such as rubber, cocoa, and pepper.

In this chapter, we look at how changes to the rainforest have affected the lives of people who have a close relationship with the natural environment, particularly the indigenous communities. This chapter is based on fieldwork we carried out in an effort to understand how an indigenous community experienced the changes in their environment as a result of development. We were particularly interested in how the changes affected their ways of making a living. In this essay we present the views of the affected people, adding to the body of knowledge that aims to let the voices of the local people be heard (Narayan et al. 2000*a*; Narayan et al. 2000*b*). By interviewing many of them, we were able to gain insights into the way the community experienced the changes. We chose two villages³ near the forest in the district of Lundu tone of three administrative districts within the boundary of the division

e mm

ill lines

of Kuching). Logging had been going on in the vicinity of the two villages since the early 1970s. The Gunung Gading National Park, which bordered the logging concession area then, is famous for the world's largest flowering plant, the Rafflesia, which was once under threat from logging. Further, oil palm plantations were introduced into the region in 1990 and 2003. The villages are accessible by roads in the Lundu/Sematan area in the Kuching division. Access to the Lundu Bazaar from the city of Kuching (the administrative capital of Sarawak) was made easier with the construction of the bridge across Batang Kayan (Kayan River) in July 2005. The road from Kuching city to the Lundu district has also been straightened and sealed. What used to be a four-hour trip now takes slightly over an hour. Our villages, as well as others in the areas, are home to the Dayak-Selako or Bidayuh-Selako community, a sub-group of Sarawak's Bidayuh ethnic group. According to anthropologist Awang Hasmadi (1992), the ancestors of the Selako once lived along the Salakau River in West Kalimantan, before migrating to Lundu, which was then part of the Brunei Sultanate. The Selako people used to traverse the mountain range that divides Kalimantan (Indonesian Borneo) and Sarawak (Malaysian Borneo) to farm both sides of the border until 1875, when the Brooke administration persuaded them to settle at their present location.

At the time of our fieldwork, the two villages have 274 households and 1,687 people between them (Lundu District Office 2011). All households live in individual houses, except for 20, which are grouped in a traditional longhouse in one of the villages. Prior to the 1970s, the villagers were subsistence farmers who also collected forest products, either to eat, to use to make rattan mats and baskets and build houses. Although in recent years many of the villagers, particularly the younger ones, are engaged in wage employment, the latest employment statistics show that 40.51 per cent from one village and 46.17 per cent from the other are self-employed farmers (Lundu District Office 2011). This condition indicates that land and forest resources are still important sources of livelihood for the villages.

Fifty-eight respondents were selected from the two villages using purposive sampling, which selected respondents from both sexes and various ages, educational levels, and occupations. However, there was also some convenience sampling, as the researchers were dependent on who was available and willing to be interviewed. Twenty-seven males

and thirty-one females from differen selected for face-to-face interviews. twenty were able to confirm that th of the two villages have become gra may not be a good representation provided a valuable understanding community undergoing change. Besi informants, namely the headmen of t A semi-structured interview schedule about livelihood and the use of for development project.4 Respondents w (wild animals, fish, plants, nuts, and building material) and the monetary sale. Respondents were asked about changed their environment, and h aspects of their lives and that of the

FINDI

Several logging companies were sait ing the trees near the villages from respondents reported that they were whether the companies had been iss said that villagers protested against t up blockades. There were fights be workers. A sixty-two-year-old man that during a fight some of the villa station for six days.

A list of forest resources was obt were then asked to compare the curr with their earlier availability. A rec was described, even though the Gu Samunsam Wildlife Sanctuary are in special species that is still available, Jering tree,⁵ which could be found in

In general, the respondents from that changes in the environment du ways of making a living. For instan