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Climate change in Asia



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# Climate change in Asia: Perspectives on the future climate regime

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Edited by Yasuko Kameyama, Agus P. Sari,  
Moekti H. Soejachmoen and Norichika Kanie

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# Preface

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This volume is the result of a two-year research project – Issues Related to Future Actions on Climate Change in Asia and the Pacific (2005-25-NSY-Sari) – which was funded by Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries (CAPaBLE) of the Asia-Pacific Network for Global Change Research (APN) in 2005 and 2006. The main objective of the project was to gather experts in the region on institutional dimensions of climate change, and start capacity-building in each country on future actions in this field. It was also our aim to be able to discuss in an open and frank manner how we, researchers in Asia, could cooperate not only to stimulate climate policy debates in our respective countries, but also to merge our ideas together to create a unique institution that fully respects specific features of the region. This idea was initially shared between the editors based in Japan and Indonesia. As we announced our idea, participants from Bangladesh, China and Thailand showed their interest. Other experts from India and Korea were unable to become involved in the study project itself but made contributions to this volume. Details of the research project are explained further in the introductory chapter of this book.

Two workshops were held during the two project years; one in Tsukuba on 18–20 October 2005 and another in Jakarta on 21–22 August 2006. We also organized a side event during the Eleventh Conference of the Parties to the UN Framework Convention on Climate Change in Montreal in 2005. Stakeholder dialogue meetings were held in most of the countries from which members originated. After two years, the team

members have become more aware of the significance of this activity. With support from the various funding sources listed in the Acknowledgements, the project is likely to continue for several more years.

Yasuko Kameyama  
Agus P. Sari  
Moekti H. Soejachmoen  
Norichika Kanie



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This project could not have been realized without initial suggestions from the APN staff. We would like to thank Linda Anne Stevenson, Maricel A. Tapia and Yukihiro Imanari for their efforts in turning our dream into reality.

The project activities were supported by several funding sources. We would like to thank the APN for the core funding. Other financial support came from the Japanese Ministry of the Environment's Global Environmental Research Fund (projects B-62, H-064 and S-3-2) and the Japanese Ministry of Education, Culture, Sports, Science and Technology's Science Research Fund (basic research (B)(1)11310025).

Last but not least, Yasuko would like to thank to Scott McQuade and Robert Davis of the United Nations University Press for their full support in publishing this book.

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# Abbreviations

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ADB	Asian Development Bank
AIM	Asia-Pacific Integrated Model (NIES)
AOSIS	Alliance of Small Island States
APN	Asia-Pacific Network for Global Change Research
APP	Asia-Pacific Partnership for Clean Development and Climate
APRLP	Andhra Pradesh Rural Livelihood Project (India)
A/R	afforestation/reforestation
AR4	IPCC Fourth Assessment Report
ASEAN	Association of South-East Asian Nations
AWG	Ad Hoc Working Group
BaU	business as usual
BBS	Bangladesh Bureau of Statistics
BCAS	Bangladesh Centre for Advanced Studies
BPL	below the poverty line
CAN	Climate Action Network
CAPaBLE	Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries
CASS	Chinese Academy of Social Science
CBD	Convention on Biological Diversity
CBO	community-based organization
C&C	contraction and convergence
CCAP	Center for Clean Air Policy (USA)
CCDF	Climate Change and Development Forum (Bangladesh)
CCIS	Comprehensive Crop Insurance Scheme (India)
CDC	common but differentiated convergence
CDCF	Community Development Carbon Fund (World Bank)

CDM	clean development mechanism
CDM-EB	clean development mechanism executive board
CDMP	Comprehensive Disaster Management Project (Bangladesh)
CER	certified emission reduction
CH <sub>4</sub>	methane
CIDA	Canadian International Development Agency
CIFOR	Centre for International Forestry Research (Indonesia)
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CMA	China Meteorological Administration
CNG	compressed natural gas
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> -e	carbon dioxide equivalent
COP	Conference of the Parties to the UN Framework Convention on Climate Change
COP/MOP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
CPC	Communist Party of China
CSD	Commission for Sustainable Development
CSR	corporate social responsibility
CTE	Committee on Trade and Environment (WTO)
DC	developing country
DFID	Department for International Development (UK)
DNA	designated national authority
DoE	Department of Environment (Bangladesh)
DPAP	Drought-Prone Areas Programme (India)
DPR	Dewan Perwakilan Rakyat (House of Representatives, Indonesia)
DWCRA	Development of Women and Children in Rural Areas Programme (India)
EA	Environment Agency (Japan)
EANET	Acid Deposition Monitoring Network in East Asia
ECA	export credit agency
ECBI	European Capacity Building Initiative
EGTT	Expert Group on Technology Transfer
EIA	environmental impact assessment
ERI	Energy Research Institute (China)
ET	emissions trading
EU	European Union
EU/ETS	EU emissions trading scheme
FAD	Future Actions Dialogue (CCAP)
FAO	UN Food and Agriculture Organization
FDI	foreign direct investment
FTA	free trade agreement
FYP	Five-Year Plan (China and India)
GATS	General Agreement on Trade in Services (WTO)
GCI	Global Climate Initiative

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GCI	Global Commons Institute
GDP	gross domestic product
GEF	Global Environment Facility
GFEP	Global Forum on Environment and Poverty
GHG	greenhouse gas
GISS	Goddard Institute for Space Study
GM	genetically modified
GNI	gross national income
GTZ	Deutsche Gesellschaft für Technische Zusammenarbeit (German Technical Cooperation)
G77	Group of 77
GWP	global warming potential
HDI	Human Development Index
HFC	hydrofluorocarbon
HIES	Household Income and Expenditure Survey (Bangladesh)
HIV/AIDS	human immunodeficiency virus/acquired immune deficiency syndrome
I-CAN	Indonesia Climate Action Network
ICZMP	integrated coastal zone management plan (Bangladesh)
IEA	International Energy Agency
IGES	Institute for Global Environmental Strategies (Japan)
IIED	International Institute of Environment and Development
IMAGE	Integrated Model to Assess Global Environment
IMF	International Monetary Fund
IPC	international political change
IPCC	Intergovernmental Panel on Climate Change
IPHE	International Partnership for the Hydrogen Economy
IPP	independent power producer
IPR	intellectual property right
IRDP	Integrated Rural Development Programme (India)
IWDP	Integrated Wastelands Development Programme (India)
JGSY	Jawahar Gram Samridhi Yojna (India)
JI	joint implementation (Kyoto Protocol)
JICA	Japan International Cooperation Agency
JKAP	Japan Kyoto Mechanisms Acceleration Programme
JPOI	Johannesburg Plan of Implementation
KLH	Kementerian Negara Lingkungan Hidup (State Ministry of Environment, Indonesia)
KN-MPB	Komisi Nasional Mekanisme Pembangunan Bersih (Indonesia)
KONIS	Korean National Inventory System
LAPAN	National Space and Aviation Agency (Indonesia)
LCS	Low Carbon Society
LDC	least developed country
LDCF	Least Developed Countries Fund (GEF)
LPG	liquefied petroleum gas
LULUCF	land use, land-use change and forestry