

Jose T. Villarin, SJ Editor

## Philippine Copyright 2001

Manila Observatory Ateneo de Manila University Campus Loyola Heights, Quezon City Philippines

Publications Coordination: Joy V. Galvez

Book Design: Noel Patrick E. Velasco

**Creative Information Collective** 

Cover Design: Khervin Cheng Chua

Illustrations: Federico Dominguez

Photographs: Philippine Center for Photojournalism

Asiapix

Foundation for the Philippine Environment

This publication was made possible through support provided by the Office of Environmental Management, USAID/Philippines, U.S. Agency for International Development. The opinions expressed herein are those of the author(s) and do not necessarily reflect views of the U.S. Agency for International Development, nor of its prime contractor for the Philippine Climate Change Mitigation Program.

ISBN: 971-92357-0-5

Printed and bound in the Philippines.

## **Table of Contents**

Introduction
Endangered Climate <b>1</b> Jose T. Villarin SJ
Responding to the Challenges of the Rising Sea Rosa Perez
Coral Bleaching in the Philippines <b>25</b> Hazel O. Arceo, Miledel Christine C. Quibilan, Wilfredo Y. Licuanan and Profirio M. Aliño
CC Impacts on Water Resources 39 Nathaniel A. Cruz
Philippine Agriculture in a Changing Climate 49  Rhoda S. Lantin
Responding to the Threats of CC to Philippine Agriculture  Lourdes V. Tibig  59
CC and Public Health in the Philippines 69  Jonathan David A. Flavier, Maria Lourdes L. Baylon and Glenn Roy V. Paraso
Policy and Legal Responses to the Challenges of CC  Ma. Cecilia G. Dalupan
North and South, States and Communities: Reflection on the Global CC Negotiations <b>91</b> Antonio G.M. La Viña
Philippine Policymaking and the UNFCCC 103  Bernaditas C. Muller

Philippine Policies and Programs on New and Renewable Energy Reuben E.T. Quejas	
Local Climate Action: Fine-tuning Local Mindsets  Pamela I. Gallares-Oppus	3
Counting Greenhouse Gases in Local Communities 14  Gemma T. Narisma	.5
The Urban Modification of Climate in Metro Manila Mariano A. Estoque and M. Sta. Maria	61
LUCF in the Philippines: CC Impacts and Mitigation Pote Rodel D. Lasco and Florencia B. Pulhin	ntial 175
Remote Sensing/GIS for CC Impacts and Mitigation Students (May Celine T.M. Vicente, Efren C. Ty, Jr., Melanie F.B. Dychinco, Gerald A. Galgana and Sidky M. Macatangay	lies <b>191</b>
Abbreviations 201	