About the Authors

Girlie Nora A. Abrigo is an Associate Professor of Sociology at the Department of Social Sciences, College of Arts and Sciences, University of the Philippines Los Baños (UPLB). She finished her bachelor of arts and master of arts in Sociology at UPLB and UP Diliman, respectively. Prof. Abrigo is actively engaged in collaborative research, providing sociological analysis on agriculture, disaster, gender and sexuality education, gerontology and urban studies, and has been involved in impact assessment projects.

Porfirio M. Aliño is a Professor at the University of the Philippines Marine Science Institute (UPMSI) where he heads the Community Ecology Laboratory. He is the coordinator of the Marine Protected Areas Support Network. Over his 30-year association with UP, he has been instrumental in developing studies in coral reefs, fisheries and ecological research.

Jan Danica S. Asma is an Assistant Professor at the Institute of Cooperatives and Bio-Enterprise Development, College of Economics and Management (CEM), University of the Philippines Los Baños. She has done research on the areas of small and medium enterprise operations and technology adoption, cooperative and enterprise development, and food security.

Rhodora V. Azanza is a Professor at the Marine Science Institute, University of the Philippines Diliman and Academician at the National Academy of Science and Technology. She has served the University in various positions, including being Dean of the College of Sciences and Assistant Vice President for Academic Affairs, and other international organizations. Her researches and publications focus on biology and ecology of seaweeds, and microalgae including environmental impacts and management of algal blooms.

Reniel B. Cabral is a postdoctoral scholar at the Bren School of Environmental and Management and Marine Science Institute, University of California Santa Barbara, USA. His works include coastal resource management and fisheries in the Philippines, Indonesia and in other countries in the Coral Triangle.

Christopher John Chanco is a graduate student at the Department of Geography, University of the Philippines Diliman.

Dulce D. Elazegui is a University Researcher V at the Center for Strategic Planning and Policy Studies (CSPPS), College of Public Affairs and Development, University of the Philippines Los Baños. She finished the Master's Program in

Technology Policy and Innovation Management at the State University of Limburg (now University of Maastricht), Netherlands; Master's program in Agricultural Development Economics at the Australian National University; and a summer certificate on Sustainable Environmental Management at the University of California-Berkeley, USA. She has been involved in collaborative research and written publications related to water, watershed management, climate change adaptation, irrigation, with interest in policy and institutions.

Jose Nestor M. Garcia is a University Researcher of the Agricultural Systems Cluster, College of Agriculture, University of the Philippines Los Baños. He holds a PhD in Environmental Science from UPLB in 2006, and a master of science degree in Agricultural Systems from the Asian Institute of Technology, Bangkok, Thailand in 1988. Dr. Garcia has vast experience in agricultural research (soil fertility, farming systems), community development works, environmental research, and systems modelling. His recent works are geared towards technology development for biofuel crop (Jatropha) and feed crop (Xanthosoma), climate change vulnerability assessment, and adaptations.

Aurora Roxas-Lim is a Professor and former Dean of the Asian Center, University of the Philippines Diliman; and was Deputy Director of the Special Project on Archaeology and Fine Arts (SPAFA) under the Southeast Asian Ministries of Education Organization (SEAMEO). Trained in English Literature at the University of the Philippines, she took up graduate studies in General Humanities combining Literature and Art at the University of Chicago. She went on to specialize in Art History and Archeology of Southeast Asia with minor in Chinese Art at Cornell University. She has undertaken research and published articles on art and archaeology of the Philippines, Southeast Asia, and China. She is currently lecturer at the Ateneo de Manila University and at Kalayaan College where she teaches art and literature. She is a volunteer of the Commission on Human Rights and the National Commission on Indigenous People to monitor the implementation of the Indigenous Peoples Rights to their Ancestral Domain (IPRA Law of 1997).

Almira Geles B. Lumbres is an Instructor 4 at the Department of Community and Environmental Resource Planning, College of Human Ecology, University of the Philippines Los Baños. She has graduated cum laude with a BS Human Ecology degree in 2011 and is currently taking her MS Development Management and Governance in the College of Public Affairs and Development, UPLB. She is a member of Phi Kappa Phi, the oldest and largest collegiate honor society, and a junior adviser of the UP Oikos, an environmental-academic organization. Her research interests include human settlements planning, development management, and conservation governance. **Ronald U. Mendoza** is Dean and Associate Professor at the Ateneo School of Government. He was an Associate Professor of Economics at the Asian Institute of Management (AIM), and the Executive Director of the AIM Rizalino S. Navarro Policy Center for Competitiveness and a Senior Economist with the United Nations in New York. His research background includes work with UNICEF, UNDP, the Federal Reserve Bank of Boston, the Economist Intelligence Unit (EIU), and several Manila-based non-government organizations.

Marie Antonette Juinio-Meñez is a Professor at the University of the Philippines Marine Science Institute (UPMSI) where she heads the Marine Invertebrate Laboratory. Her team undertakes research on ecology, and culture and fishery management of marine resources. She is involved in the marine biodiversity conservation and diversification of income streams for coastal communities and various stakeholders through environmentally sound aquaculture.

Arnisson Andre C. Ortega is an Assistant Professor at the Population Institute, University of the Philippines Diliman. His research interests include urbanization, migration, socio-spatial theory, and critical demography.

Ernesto M. Pernia is Professor Emeritus of Economics, University of the Philippines. He is currently Secretary of Socioeconomic Planning, National Economic and Development Authority. Apart from being a Professor of Economics at UP, his earlier stints included being Lead Economist of the Asian Development Bank (ADB) and Regional Adviser of the International Labour Organization (ILO) for Asia and the Pacific.

Karen P. Quilloy is an Assistant Professor at the Institute of Cooperatives and Bio-Enterprise Development, College of Economics and Management (CEM), University of the Philippines Los Baños. She is currently serving as the associate dean of CEM. She has done research on the areas of cooperative and enterprise development, food security, agricultural marketing, and environmental management.

Agnes C. Rola is a Professor of Public Policy at the College of Public Affairs and Development, University of the Philippines Los Baños. She obtained her PhD in Agricultural Economics from the University of Wisconsin- Madison, USA in 1985 and a summer program certificate in Environmental Leadership from the University of California-Berkeley in 2001. Her research revolves around the economics, policy and institutional aspects of sustainable agriculture and natural resources management. She is a member of the National Academy of Science and Technology (NAST) Philippines, and currently serves on the Board of Trustees of the International Center for Tropical Agriculture. **Kristian Karlo C. Saguin** is an assistant professor at the Department of Geography, University of the Philippines, Diliman with research interests in the fields of political ecology, urban studies and agrarian change.

Ricardo M. Sandalo received his BS Human Ecology (1980) and MA in Urban and Regional Planning (1987) from the University of the Philippines. Since 1980, he was a development worker in both government and non-government organizations, mostly with the Palawan Council for Sustainable Development (PCSD) and the World Wide Fund for Nature-Philippines (WWF-Phils). In 2011, he joined as faculty at the Department of Community and Environmental Resources Planning, College of Human Ecology in UPLB. His work and research interests include community-based resource management, rural development, and integrating ecosystem management in disaster risk reduction and climate change adaptation.

Charles S. Siriban is a former Research Associate of the AIM Rizalino S. Navarro Policy Center for Competitiveness. He was part of the Policy Center's research team on Blue Economy and Regional Cooperation, as well as the research team on democracy and inclusive growth. He obtained his bachelor's degree in Economics (Honors program) from the Ateneo de Manila University and a master of arts degree in Economics from the University of the Philippines.

Zenaida M. Sumal de is a Professor of Economics at the College of Economics and Management, University of the Philippines Los Baños. She holds a PhD in Agricultural Economics from UPLB in 1987 and attended a post-doctoral enrichment course in environmental economics at the University of British Columbia, Vancouver, Canada in 1998. Dr. Sumalde's research interests include valuation of environment and natural resource system; environmental financing, particularly the payment for environmental services; economics of climate change mitigation; and adaptation mechanisms by small farmers, fishers, and rural households to extreme events.

Aildrene Israel S. Tan obtained a BS Geography degree from the University of the Philippines Diliman. He was a research associate at the Ateneo School Government where he worked on projects on social innovation, community development, and urban resettlements. His other research interests include policies and programs in basic and higher education. He currently works with the Department of Education for a project on the transformation of the basic education sector. **Cristino L. Tiburan Jr.** is an Assistant Professor at the Environmental Remote Sensing and Geo-information (ERSG) Laboratory, Institute of Renewable Natural Resources, College of Forestry and Natural Resources, University of the Philippines Los Baños. He finished his PhD in Global Environmental Studies from Kyoto University, Japan in 2012. His research interest is mainly on the applications of geospatial technologies (GIS, remote sensing and global navigation satellite system) to natural resource management, biodiversity conservation, forest measurements, land use and land cover change analysis, environmental modeling, vulnerability assessment, hazard decision support system, disaster risk management, climate change, and watershed management.

Manolo G. Villano is a retired Associate Professor in the Land and Water Resources Division, Institute of Agricultural and Bio-Process Engineering, College of Engineering and Agro-Industrial Technology, University of the Philippines Los Baños where he obtained his BS and MS degrees in Agricultural Engineering. He earned a Diploma in Irrigation Engineering from the Catholic University of Leuven, Belgium. The main focus of his research work and extension services is on irrigation and soil and water conservation engineering as they relate to water resources enhancement (aquifer recharge) and sustainable development/ management.